

Curriculum Vitae: Dr. Stanford F. Blade, P.Ag.

Position: Dean
Faculty of Agricultural, Life and Environmental Sciences
Full Professor (Dept of Agriculture, Food and Nutritional Science)
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Employment

08/2014-on-going Dean, Faculty of Agricultural, Life and Environmental Sciences (ALES), University of Alberta

ALES draws on science, social sciences, and business to tackle some of the world's most critical issues. The Faculty has an annual budget of \$85m, with approximately \$45m of that composed of external research support. The Faculty is made up of 400+ faculty and staff, 1600 undergraduates and 550 graduate students. ALES is focused on teaching, research and community service in its departments and schools: Agriculture, Food and Nutritional Sciences, Renewable Resources, Human Ecology, Resource Economics and Environmental Sociology as well as the Devonian Botanic Garden and the Alberta School of Forest Science and Management. The Faculty has a large research infrastructure which includes 25,000 acres of farm and rangeland in key ecologies across Alberta. Dr. Blade is a full professor in the Faculty's Department of Agriculture, Food and Nutritional Science. Dr. Blade is a board member of Livestock Gentec (livestock genomics), Phytola (oilseed genomics), the Alberta Biodiversity Monitoring Institute, Genome Alberta, the Biological Greenhouse Gas Management Program and the Alberta Rural Development Network.

Reporting to the Provost and Vice-President (Academic), the Dean of the Faculty of Agricultural, Life and Environmental Sciences is responsible for the leadership and administration of all aspects of the Faculty. In addition to the role of senior officer of the Faculty, and a member of Deans' Council, the Dean is a senior administrator of the University. The Dean fosters an environment in which world-leading research, excellent teaching, and engaged scholarship flourish. As the face of the Faculty of Agricultural, Life and Environmental Sciences, the Dean is champion of interdisciplinary scholarship, global outreach, and the recruitment of high quality faculty and student talent. Leading a Faculty known for its collegial, collaborative, and positive culture, the Dean continues to encourage and sustain an environment in which students, faculty, and staff thrive. Research is focused in four key areas: helping feed the world; ensuring a healthy

environment; nurturing bio-resource innovation; and strengthening individual and community well-being.

Dr. Blade's expertise has been recognized through his invitations to participate in research reviews conducted by the European Union, Consultative Group on International Agricultural Research, Food and Agriculture Organization, Natural Sciences and Engineering Research Council and the Canadian Foundation for Innovation. Dr. Blade is often engaged by the private sector to provide advice and insight on strategic opportunities based on his extensive global network and broad understanding of industry issues. Dr. Blade is an associate editor of the globally recognized international science publication "Agronomy Journal".

Dr. Blade has previously served on the Boards of the Telus World of Science, the Edmonton Public Library and CHF – Partners in Rural Development (an international NGO). Dr. Blade successfully completed the Institute of Corporate Directors course in board governance (2010). Dr. Blade is a 2012 graduate of the Wharton Business School's Executive Development Program (University of Pennsylvania). He currently serves as Vice-Chair on the Board of Trustees of the African Agricultural Technology Foundation (<http://www.aatf-africa.org/>), a Nairobi-based agency supported by the Bill and Melinda Gates Foundation with an annual budget of \$25m.

**07/2009-07/2014 CEO, Alberta Bio Solutions Research and Innovation Corporation
Edmonton, Alberta Canada**

Alberta Innovates - Bio Solutions is embracing and supporting new technologies and the creation of new ideas for the growing global bioeconomy. We're delivering on the potential of agriculture and forestry in areas such as sustainable production, biorefining, composite materials, **value-added food and health products**, and nano-enabled materials. And we're strengthening our ability to develop new sustainability practices, new natural products for world markets and economic opportunities attracting international investment. Alberta aims to be a global gateway and resource for bio-based research, talent, investment and solutions. Alberta Innovates - Bio Solutions builds on the strengths and successes of the Alberta Prion Research Institute, Alberta Agricultural Research Institute, Alberta Forestry Research Institute and Alberta Life Sciences Institute. AI Bio has a portfolio of project investments valued at \$95+ million with a total project value of \$235+m.

Additional responsibilities: Board member, Genome Alberta; Member, Industrial Bioproducts Value Chain Committee; European Union Expert Evaluator (7th Framework); Advisor, Food and Agriculture Organization; Adjunct Professor, Faculty of Agricultural, Life and Environmental Sciences, University of Alberta.

**06/2006-07/2009 Executive Director, Alberta Agricultural Research Institute
Ministry of Advanced Education and Technology,
Government of Alberta
Edmonton, Canada**

AARI was the Alberta leader responsible for ensuring that agricultural research, development and deployment deliver innovative solutions to the marketplace. AARI works with all stakeholders in the research-development continuum to provide strategic leadership and direction to create a prosperous agricultural sector. AARI has invested approximately \$180m million in research to enhance Alberta's profitability and innovation since 1992.

Additional responsibilities; Member, Nine Point Bioenergy Program Grant Advisory Team (\$239 million); Management Advisory Board Member, Ingenuity Centre for Livestock Genomics; Management Advisory Board Chair, Ingenuity Centre for Performance Oilseeds and Bioactive Oils; Member, Canadian Triticale Biorefining Initiative Steering Committee; Member, Alberta Lipid Utilization Program Advisory Committee; European Union Expert Evaluator (7th Framework); Member, Canadian Foundation for Innovation infrastructure review team; Honorary Research Fellow (n), Bioversity International; Advisor, Food and Agriculture Organization; Adjunct Professor, Faculty of Agricultural, Life and Environmental Sciences, University of Alberta.

04/04-06/06 **Deputy Director General- Research
International Institute of Tropical Agriculture (IITA)
Ibadan, Nigeria**

Responsible for the strategic direction of the Institute (www.iita.org), including 150+ international research scientists and 1200 national staff located at seven research stations and 16 countries in Africa. IITA is the largest research group within the global Consultative Group on International Agricultural Research (www.cgiar.org). The Director must ensure that the scientific productivity of the Institute is relevant to the Institute's mission (enhance food security, income and well-being of Africans) and delivering substantive and measurable impact. Liaison with: partner governments (including national research and extension services) and regional stakeholders within Africa, international investors (governments, foundations, development agencies), advanced research labs and non-governmental agencies (within and outside Africa). The total budget for IITA is approximately US\$52 million per year, and we are involved in developing crop technologies that influence producers, processors and consumers in sub-Saharan Africa through enhanced nutrient content, increased yields, reduction of pest problems and development of sustainable cropping strategies. Represent the Director General at international and national meetings, as well as serve as Acting DG when the Director General is on official travel. **Additional responsibilities (selected):** Management Committee, Sub-Saharan Challenge Program; Program Steering Committee, Generation Challenge Program; Center Deputy-Directors Committee (CGIAR); Board Member, Global System-Wide Livestock Program; Steering Committee, Sustainable Tree Crops Program; International Editorial Advisory Board Member, Agricultural Ecosystems and Environment; Member, Scientific and Technical Committee, *Le Conseil Ouest et Centre Africain pour la Recherche et le Développement Agricoles*; Special Advisor, University of Ibadan.

12/01-03/04 **Director, Crop Diversification Division, AAFRD
Edmonton, Alberta, Canada**

Responsible for leadership and strategic direction of 140+ researchers, technicians and technology transfer specialists across Alberta. Ensure that \$10.3 million Division budget is effectively used to increase and expand the crop sector in the province. Collaborate with \$4 billion crop industry to create a strategic plan for the growth of the sector. Seek out opportunities for cooperation and coordination with industry and public sector partners. Participate in leading research planning and technology transfer initiatives. Maintain a leading-edge research program focused on genetic improvement of pulses for expanded crop diversification in western Canada. **Additional responsibilities: Member**, Industry Development Sector Leadership Team, (\$42 million budget, AAFRD); **Board Member and Recognized Plant Breeder**, Canadian Seed Growers Association; **Member**, Alberta Grain Commission; **Chair**, Alberta Pulse Research Network; **Special Crops Committee Member**, Prairie Registration Recommending Committee for Grains; **Guest lecturer**, universities and colleges; **International Editorial Advisory Board Member**, Agricultural Ecosystems and Environment; **Leader**, AAFRD/ARC/U of A Agri-Food Research Institute development process (successful development of \$35 million proposal for the Institute of Food and Agricultural Sciences, Alberta).

04/98-12/01 **Director, Crop Diversification Centre, AAFRD**
Leader, New Crop Development Unit, AAFRD
Edmonton, Alberta, Canada

Responsible for leadership of approximately 12 scientists and 30 technicians in several research programs: new crops, greenhouse production, vegetable agronomy, seed potatoes, food science, plant pathology, nursery and ornamental crops, post-harvest physiology, weed science, soil and water agronomy and apiculture. Involved in working with scientists to ensure the relevance and quality of research. Development of a vision for the Centre and Unit. Active networking with industry and commodity organizations to bring in new research funding. Daily management of a large research facility including laboratories, green houses, growth chambers and 200 ha of research land. Responsibility for an annual budget of \$2.3 million and approximately \$250,000 in external funding for research projects.

Additional responsibilities: Chair, Provincial Applied Research Strategy Group; **Chair**, AAFRD Special Crops Product Team; **Leader** -Provincial Pulse and Special Crops Team; **Associate Member and Recognized Plant Breeder**, Canadian Seed Growers Association; **Chair**, Alberta Pulse Research Network; **Special Crops Sub-Committee Member**, Prairie Registration Recommending Committee for Grains, **Executive Secretary**, Alberta Agricultural Research Institute (Special Crop, Forage and Horticulture Research Fund Sub-Committee); **Advisor**, Alberta New Crops Network; **Pulse Canada Research**, technical committee member, **Guest lecturer**, universities and colleges.

07/95-04/98 **Plant breeder/agronomist**
New Crop Development Unit
Alberta Agriculture, Food and Rural Development
Crop Diversification Centre North
Edmonton, Alberta, Canada

Research scientist working as Special Crops Program Leader in the development of new crops for the Province of Alberta. Conduct basic and applied field and greenhouse research on a wide range of pulses, herbs, spices, medicinal and fibre crops. Participate in extension and technology transfer by presenting research results at conferences and producer meetings, publishing articles for the scientific and popular press and partnering with federal and provincial partners, universities, agricultural research associations, private industry and producer commissions. Awarded Breeder status from the Canadian Seed Growers Association to produce and maintain breeder seed.

01/95-06/95 **Research Coordinator**
Alberta Barley Commission
Calgary, AB

Provide input for the selection and coordination of the barley research funded by the Commission. The Commission wanted to ensure that the \$675,000 budget was being used efficiently to aid producers in Alberta.

03/92-12/94 **Post-doctoral Scientist**
Breeder/Cropping Systems Agronomist
International Institute of Tropical Agriculture
Kano, Nigeria

Evaluate improved (insect-resistant, high yielding) cowpea lines for grain and fodder production in traditional intercropping systems in the sudan savanna (Nigeria, Niger, Ghana, Cameroon). Conduct agronomic trials in northern Nigeria. Participate in on-farm evaluation of improved cowpea lines. Describe local farming systems by on-site evaluation of farming practices and yields. Manage station personnel and research facilities. Act as a resource person for national research programs.

08/90-05/91 Africa 2000 Program Officer
United Nations Association of Canada
Vancouver, B.C. Canada

Coordinate presentation of programs dealing with Africa and development issues to two hundred British Columbia high schools. Provide interviews with the print and electronic media to discuss Canada's role in international development.

01/88-12/89 **C.I.D.A. Research Fellow**
Grain Legume Improvement Program
International Institute of Tropical Agriculture
Ibadan, Nigeria

Coordinate doctoral research program in the forest and savanna zones in Nigeria. Supervise 15-20 people during planting and harvesting. Data analysis, thesis preparation and publication of findings.

01/89-05/89 **Teaching assistant**
01/88-05/88 Department of Plant Science
Macdonald College/McGill University
Montreal, Canada

Conduct laboratories and mark assignments for undergraduate courses in advanced agronomy. Present lectures in areas of expertise. Similar duties were carried out at the University of Saskatchewan during the 1984-1986 period.

Education

04/12 **Executive Development Program**
Wharton Business School
University of Pennsylvania
Philadelphia, Pennsylvania

10/10 **Governance Essentials Program**
Institute of Corporate Directors/Rotman School of Business
University of Toronto
Hosted by: University of Alberta School of Business

01/10 **Agribusiness Seminar (Discussion Leader)**
Harvard School of Business
Harvard University
Cambridge, MA

12/09 **Building Strategic Relationships (Corporate Executive Development)**
University of Alberta School of Business
University of Alberta
Edmonton, Alberta

01/08 **Agribusiness Seminar (Discussion Leader)**
Harvard School of Business
Harvard University
Cambridge, MA

06/05 **Scenario thinking: how leaders can prepare for the future**
Templeton College, Oxford University
Oxford, England

01/03 **Agribusiness Seminar**
Harvard School of Business
Harvard University
Cambridge, MA

05/97 **Leaders in Agriculture**
Leadership and Management Program
Banff Centre for Management
Banff, Alberta, Canada

01/88-02/92 **Doctor of Philosophy degree**
Department of Plant Science-Macdonald College
(International Institute of Tropical Agriculture, Nigeria)
McGill University - Montreal, Quebec Canada

Thesis title: Cowpea intercropping in Nigeria
(Varietal screening of cowpeas intercropped with maize, cassava, sorghum or millet in the forest and savanna region of Nigeria. Emphasis: breeding strategies for intercrop legumes, sustainability of cropping systems, genotype stability over a range of agroecologies, physiological aspects of cereal-legume competition)

- 01/87-01/88 **Commonwealth Scholar (Nigeria)**
Department of Agronomy-University of Ibadan/
International Institute of Tropical Agriculture
Topic: Maize-cowpea intercropping
Ibadan, Oyo State Nigeria
- 09/84-12/86 **Master of Science degree**
Department of Crop Science-University of Saskatchewan
Saskatoon, Saskatchewan Canada
Thesis title: Source-sink alteration in eight spring
wheat (*Triticum aestivum*) genotypes.
- 01/84-04/84 Department of Plant Science
Faculty of Agriculture
University of Alberta
Edmonton, Alberta Canada
- 09/78-04/81 **Bachelor of Science degree (Biology)**
Faculty of Science
University of Alberta
Edmonton, Alberta Canada

Awards

- 2008 University of Alberta. 2008 Collaboration Award. Faculty of Agricultural, Life and Environmental Sciences.
- 2000 Nominee, "Canada's Top 40 Under 40"™ Awards Program (Caldwell Partners, Globe and Mail, Air Canada, Canadian Broadcasting Corporation).
- 2000 American Society of Agronomy Educational Materials Award-"Pulse Crops in Alberta"
- 2000 American Society of Agronomy Educational Materials Award-"Diseases and Pests of Ginseng in Alberta"
- 2000 American Society of Agronomy Educational Materials Award- "Herb and Spice Production and Marketing CD-ROM"
- 2000 Premier's Award of Excellence-Special Crops Product Team (Dr. S.F. Blade-Team Chair)
- 2000 Minister's Group Achievement Award-"Herb and Spice: Production and Marketing CD-ROM"
- 1996 Member, Special Crops Product Team

- Minister's Award of Excellence
1994 Kano State Government
Agricultural development citation-IITA/Kano
1988 Canadian International Development Agency Doctoral
Scholarship/International Institute of Tropical Agriculture
1987 Commonwealth Scholarship (Government of Nigeria)
1984-6 University Scholarship (Province of Saskatchewan)

Plant breeding accomplishments-new cultivars

- Cutlass (originally tested as SB-2000-2) is a new yellow-cotyledon field pea cultivar was recommended for by the Prairie Registration Recommending Committee for Grain. The new cultivar exhibits increased yield, improved disease resistance and good quality characteristics. CUTLASS was the top performer in the 2001 Field Pea Cooperative Registration Test- a third-party trial located at several sites across western Canada to test all of the potential new pea cultivars being developed by North American and European breeding programs. CUTLASS yielded 10% higher than the other check cultivars in two years of testing-this is a significant improvement in yield potential when compared to existing commercial pea cultivars. In addition to excellent yield, CUTLASS has shown complete resistance to powdery mildew, a disease which can cause substantial yield reductions. The candidate cultivar has also been identified as being resistant to Fusarium wilt (Race 1). Cooking quality tests indicated superior viscosity and granulation-characteristics that are important in some of our major export markets.
- Dr. Blade sought Plant Breeders Rights on two narrow-leaf lupin cultivars (*Lupinus angustifolius* L.) for specific high-protein industrial and feed applications.
 - Fenugreek lines L3314 (now commercially released as Tristar) and AAFRD-F18- A set of high-yielding forage fenugreek lines have been developed in collaboration with Agriculture and Agri-Food Canada (Dr. S. Acharya).
 - Dr. Blade played a significant role in the multi-country release of several cowpea lines as well as assisted collaborating programs (U of S, AAFC, private companies) in the release of several field pea, lentil and faba bean cultivars.

Articles

Blade, S.F. 2009. I Remember Dr. Norman Borlaug. Globe and Mail Newspaper (National Edition). September 29 Review Section, R13

Research papers

- Su, H., S.F. Hwang, K.F. Chang, R.L. Conner, A.D. Xue and S.F. Blade. 2006. Assessment of yield loss caused by *mycosphaerella* blight in field pea crops in western Canada. *Journal of Plant Diseases and Protection* 113 (6): 267-274.
- Zhang, R., Sheau-Fang Hwang, Kan-Fa Chang, Bruce D. Gossen, Stephen E. Strelkov, George D. Turnbull and Stanford F. Blade. 2006. Genetic Resistance to *Mycosphaerella pinodes* in 558 Field Pea Accessions. *Crop Science* 46: 2409-2414.
- Yang, R.C., D. Stanton, S.F. Blade, J. Helm, D. Spaner, S. Wright and D. Domitruk. 2006. Isoyield analysis of barley cultivars in the Canadian prairies. *Journal of Agronomy and Crop Science* 192: 284-294.
- Araganosa, G.C., T.D. Warkentin, V.J. Racz, S.F. Blade, C. Phillips and H. Hsu. 2006. Prediction of crude protein content in field peas using near infrared reflectance spectroscopy. *Canadian Journal of Plant Science* 86: 157-159.
- Wang, H., K.F. Chang, S.F. Hwang, R.J. Howard, S.F. Blade and N.W. Callan. 2005. Fusarium root rot of coneflower seedlings and integrated control using *Trichoderma* and fungicides. *BioControl* 50: 317-329.
- Yang, R., D. Stanton and S.F. Blade. 2005. Identifying isoyield environments for field pea production. *Crop Science* 45 (1): 106-113.
- Blade, S.F., K. Ampong-Nyarko and R. Przybylski. 2005. Fatty acid and tocopherol profiles of industrial hemp cultivars grown in the high latitudes prairie region of Canada. *Journal of Industrial Hemp* 10: 23-42.
- Hwang, S.F., H. Su, K.F. Chang, S.F. Blade and R.J. Howard. 2004. Characterization of the metabolite produced by *Mycosphaerella pinodes*, the causal agent of mycosphaerella blight on field peas (*Pisum sativum* L.). *Microbiological Research* 159 (2004): 187-191.
- S.F. Blade, K. Lopetinsky, M. Olson, P. Laflamme and C. Phillips. 2004. High protein lupins: diversifying the pulse industry in western Canada. 4th International Crop Science Congress On-line refereed proceedings.
http://www.cropscience.org.au/icsc2004/poster/3/4/7/418_bladesf.html
- Chang, K.F., S.F. Hwang, R.J. Howard and S.F. Blade. 2004. Effects of soil temperature, seeding depth and seeding date on rhizoctonia seedling blight and root rot of chickpea. *Canadian Journal of Plant Science* 84: 901-907.
- Kav, N., S. Srivastava and S.F. Blade. 2004. Proteome-level changes in the roots of *Pisum sativum* L. in response to salinity. *Annals of Applied Biology* 145:217-230.
- Chang, K.F., S.F. Hwang, R.J. Howard and S.F. Blade. 2004. Aster yellows phytoplasma associated with chai hu plants in Canada. *Zeitschrift fur Pflanzenkrankheiten und Pflanzenschutz* 111(3):218-224.
- Su., H., S.F. Hwang, R.J. Howard and S.F. Blade. 2004. Differences in the growth stages of *Erysiphe pisi* on cultivars of field pea (*Pisum sativum* L.) *Zeitschrift fur Pflanzenkrankheiten und Pflanzenschutz* 111(1):xxx-xxx. (in press).
- Yang, Y., S.F. Hwang, R.J. Howard and S.F. Blade. 2004. Biological control of *Pythium* damping off in *Echinacea angustifolia* with *Trichoderma* species. *Zeitschrift fur Pflanzenkrankheiten und Pflanzenschutz* 111(2):126-136.
- S.F. Blade, T. Warkentin and A. Vandenberg. 2004. Cutlass field pea- cultivar description. *Canadian Journal of Plant Science* 84: 533-534.
- R. Yang, S.F. Blade and M. Bandara. 2004. Efficiency of spatial analyses of field pea (*Pisum sativum* L.) variety trials. *Crop Science* 44: 49-55.

- B. Taran, T. Warkentin, S.F. Blade, D.J. Somers and G. Penner. 2003. Quantitative Trait Loci for lodging resistance, plant height and partial resistance to *Mycosphaerella blight* in field pea (*Pisum sativum* L.) *Theoretical and Applied Genetics* 107 (8): 1482-1491.
- S.F. Hwang, R. Howard and S.F. Blade. 2003. Etiology of *Rhizoctonia* in chickpea. *Can.J. of Plant Science* 83: 959-967..
- Chang, K.F., S.F. Hwang, B.D. Gossen, G.D. Turnbull, R.J. Howard and S.F. Blade. 2002. Effect of soil temperature, seeding date and seeding depth on chickpea grown on soil infected with *Rhizoctonia solani*. *Can. J. Plant Pathology* 24: 382 (Abstr.).
- Su, H., S.F. Hwang, G.D. Turnbull, K.F. Chang, R.J. Howard, T. Buss and S.F. Blade. 2002. Survey of powdery mildew and ascochyta blight on field pea in central Alberta. *Canadian Plant Disease Survey* 82: 112-113.
- Wang, H., S.F. Hwang, G.D. Turnbull, R.J. Howard, S.F. Blade and N.W. Callan. 2002. *Fusarium* root rot of coneflower seedlings and integrated control using *Trichoderma* fungicides. *Plant Disease* (in press).
- S.F. Blade, G.W. Clayton and D. Lyon. 2002. Managing agricultural biodiversity: opportunities and challenges for crop diversification in the Northern Great Plains. *Agronomy Journal* 94 (2): 173-174.
- El Hafid, R., Blade, S.F. and Y. Hoyano. 2002. Effect of seeding rate and fertility on borage yield and oil composition. *Journal of Industrial Crops* 16:193-199..
- D.J. Bing, Warkentin, T., S.F. Blade and R. Conner. 2001. Interrelationship of factors influencing field pea (*Pisum sativum* L.) in western Canada. *Proceedings of the North American Pulse Improvement Association Biennial Meeting*. Fargo, ND.
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- Blade, S. F. and R. Bjorklund. 2001. New opportunities for grain and silage faba beans in NC Alberta. *Agri-Food 2000 abstract*. *Can. J. of Pl. Science* 81: 123-124.
- Blade, S.F., K.F. Chang, M. Mirza, L. Russell and M. Bandara. 2000. *The Conservation and Production of Promising Medicinal Plant Species: The Canadian Experience*. First African Conference on Medicinal Plants Research. Vol. 1:4-9. Tripoli, Libya.
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- Chang, K.F., Howard, R.J., Blade, S.F. and S.F. Hwang. 1999. Foliar and root diseases of ginseng in Alberta (1998). *Canadian Plant Disease Survey* 79: 123-125.
- Chang, K.F., Howard, R.J., Blade, S.F. and S.F. Hwang. 1999. Diseases of echinacea in Alberta (1998). *Canadian Plant Disease Survey* 79: 108-110.
- Blade, S.F. 1999. New crop development in Alberta. *The Australian New Crops Newsletter* Volume 11: 133-134.
- Blade, S.F. 1998. Field pea production in Alberta: success of a “new” crop. Canadian Society of Agronomy annual meeting (Vancouver, B.C.) abstract. *Can. J. Plant. Sci.* 79: 118..
- Blade, S.F. 1998. Low-THC hemp production in Alberta. Canadian Society of Agronomy annual meeting (Vancouver, B.C.) abstract. *Can. J. Plant. Sci.* 79: 118..
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- Singh, B.B. and S.F. Blade. 1997. Potential of dry season cowpea in West Africa. In: Bezuneh, T., A.M. Emechebe, J. Sedgo and M. Ouedrago (eds.) *Technology Options for Sustainable Agricultural Options in Sub-Saharan Africa*. OAU/STRC-SAFGRAD, Ougadougou, Burkina Faso, pp. 227-233.
- Blade, S.F., T. Terao, S.V.R. Shetty and B.B.Singh. 1997. Recent developments in cowpea cropping systems research. *Advances in Cowpea Research* (eds.: B.B. Singh, D.R. Mohan Raj, K.E. Dashiell and L.E.N. Jackai), Co-publication of International Institute of Tropical Agriculture and Japan International Research Centre for Agricultural Sciences. IITA, Ibadan, Nigeria.
- M.J. Mortimore, B.B. Singh, F. Harris and S.F. Blade. 1997. Cowpea in traditional cropping systems. *Advances in Cowpea Research* (eds.: B.B. Singh, D.R. Mohan Raj, K.E. Dashiell and L.E.N. Jackai), Co-publication of International Institute of Tropical Agriculture and Japan International Research Centre for Agricultural Sciences. IITA, Ibadan, Nigeria.
- Tarawalli, S.A., B.B. Singh, M. Peters and S.F. Blade. 1997. Cowpea haulms as fodder. *Advances in Cowpea Research* (eds.: B.B. Singh, D.R. Mohan Raj, K.E. Dashiell and L.E.N. Jackai), Co-publication of International Institute of Tropical Agriculture and Japan International Research Centre for Agricultural Sciences. IITA, Ibadan, Nigeria.

- Blade, S.F. 1996. Morphological basis of field pea harvestability. Western Canadian Pulse Research Conference Proceedings. Volume 1:26-27.
- Blade, S.F., Singh, B.B., Mather, D.E. and Smith, D.L. 1992. Yield stability of improved cowpea genotypes under sole and intercrop management in Nigeria. *Euphytica* 61: 193-201.
- Blade, S.F. and Baker, R.J. 1991. Kernel weight response to source-sink changes in spring wheat. *Crop Sci.* 31: 1117-1120.
- Blade, S.F., Smith, D.L. and Singh, B.B. 1989. Cowpea intercropping in Nigeria: sole versus intercropped yields. *Canadian Society of Agronomy Abstract. Can. J. Pl. Sci.* 70: 322.
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Book Chapters

- Blade, S.F. 2008. IITA's research-for-development agenda in Africa. In: *Mycotoxins: Detection, Management, Public Health and Agricultural Trade* (editor J.K. Leslie). CABI Publishing, London.
- Blade, S.F. 2006. Intensified crop production in the African savanna. 2005 Consultative Group on International Agricultural Research Annual Report. CGIAR Secretariat, Washington, D.C.
- Blade, S.F.. 2006. IITA research perspectives: from field to fork. 2005 International Institute of Tropical Agriculture Annual Report. IITA Press, Ibadan, Nigeria.
- Blade, S.F., T. McAllister and L. Delanoy. 2004. Bud the Spud moves west: the expansion of the Canadian potato industry. *Canadian Agriculture at a Glance. Statistics Canada. Government of Canada publication 96-325-XPB (323 pp.)*
- Blade, S.F. 2004. Routes and branches: An Albertan returns to Africa. *Pulse Crop News* (Fall edition) 2004: 16-18.
- Blade, S.F. and A.E. Slinkard. 2001. International New Crop Development-The Canadian Experience. In "New Crops and New Uses: Strength in Diversity" (ed. J. Janick), ASHS Press. Alexandria, VA.
- Blade, S.F. and R. El Hafid. 2001. New issues in borage agronomy. In "New Crops and New Uses: Strength in Diversity" (ed. J. Janick), ASHS Press. Alexandria, VA.
- Blade, S.F., Gaudiel, R.G. and Kerr, N. 1999. Low-THC hemp research in the black and brown soil zones of Alberta, Canada. *Perspectives on New Crops and New Uses. J. Janick (ed.) ASHS Press, Alexandria, VA. pp 306-310.*
- Blade, S.F. 1998. Low-THC hemp research in Alberta. *Alberta Hemp Symposia Proceedings* S.F. Blade (ed.). Alberta Agriculture, Food and Rural Development Publications, Edmonton, Alberta. 97 pages.
- Blade, S.F., T. Terao, S.V.R. Shetty and B.B.Singh. 1997. Recent developments in cowpea cropping systems research. *Advances in Cowpea Research* (eds.: B.B. Singh, D.R. Mohan Raj, K.E. Dashiell and L.E.N. Jackai), Co-publication of International Institute of Tropical Agriculture and Japan International Research Centre for Agricultural Sciences. IITA, Ibadan, Nigeria.

Conference presentations (selected)

- Blade, S.F. and P. Guidera. Keeping Alberta growing: investing in new forestry technologies. International Conference on Biomass and Biochemicals. Nanjing, China.
- Blade, S.F. 2013. Opportunities for bioindustrial collaboration. Forestry and Energy Workshop, FIBRE Network, Edmonton, Alberta.
- Blade, S.F. 2012. Developing new biopolymer polymers through science. Biopolymers 2012. San Antonio, Texas.
- Blade, S.F. 2012. Building the bioeconomy: using biomass in innovative ways. International Crop Science Congress. Bento Goncalves, Brazil.
- Blade, S.F. 2012. Beyond promises: the next ten years of Canadian biorefining. NSERC Bioconversion Network Pre-Treatment Workshop (UBC). Vancouver, Canada.
- Blade, S.F. 2011. The potential for biological sequestration in carbon capture. Canadian Institute lecture. Calgary, Canada.
- Blade, S.F. 2011. Food for health: what are the new innovations? Canadian Consulate seminar invited talk. San Francisco, U.S.A.
- Blade, S.F. 2011. Harvesting nanotechnology opportunities in agriculture and forestry. Alberta Nanotechnology Showcase. Calgary, Canada.
- Blade, S.F. 2011. Pitching your research idea to a company. Advanced Food and Materials Network HQP Workshop. Toronto, Canada.
- Blade, S.F. 2010. Alberta Innovates- investing in innovation to build the Alberta fibre sector. TAPPI Research Management Committee. Madison, WI.
- Blade, S.F.. 2010. Investing in the bioeconomy: how is the public sector creating new opportunities? European Forum on Industrial Biotechnology. Edinburgh, Scotland.
- Blade, S.F. 2010. Building the Alberta bioeconomy-investing in innovation. CLIB²⁰²¹ International Research Conference. Dusseldorf, Germany.
- Blade, S.F. 2010. Agricultural Biodiversity-What is New? (Rapporteur's Report to the Plenary Session). Global Conference on Agricultural Research for Development. Montpellier, France.
- Blade, S.F. 2009 Building the Canadian bioeconomy: investing in the future. Keynote address. European Forum for Industrial Biotechnology. Lisbon, Portugal.
- Blade, S.F. 2009. Industrial Cereal Crop Development. The World Congress on Industrial Biotechnology and Bioprocessing (moderator). Montreal, Canada.
- Blade, S.F. 2009. Models for Successful Commercialization of Biological Extracts to the Global Pharmaceutical and Personal-Care Industry. The World Congress on Industrial Biotechnology and Bioprocessing (moderator). Montreal, Canada.
- Blade, S.F. 2008. Pulse genetics and genomics: past, present and future. Invited Keynote Lecture. National Pulse Research Workshop. Calgary, Canada.
- Blade, S.F. 2008. How can agriculture use the nanotechnology toolbox? Invited Lecture-Alberta Nanotechnology Showcase. Edmonton, Canada.
- Blade, S.F. 2008. Slow magic: the global success of crop research. Inaugural lecture, Plant BioSystems Lecture Series (University of Alberta). Edmonton, Canada
- Blade, S.F. 2008. Alberta's investment in agricultural biotechnology. Missouri Investor Forum. St. Louis, U.S.A.
- Blade, S.F. 2008. Investing in the bioeconomy. Agricultural Biotechnology International Conference. Cork, Ireland.

- Blade, S.F. 2008. Creating new opportunities for high value crops in the developing world. Invited Lecture-World Vegetable Centre. Shansua, Taiwan.
- Blade, S.F. 2007. Alberta and the bioeconomy. Invited lecture. Institute for Industrial Crop Research. Bologna, Italy.
- Blade, S.F. 2007 Alberta: Oil and More, a vision for the bioeconomy. Keynote symposium. World Congress on Industrial Biorefining and Bioprocessing. Orlando, FL.
- Blade, S.F. 2007. Opportunity for innovation- increasing agricultural production through water use efficiency. Invited lecture. International Centre for Agricultural Research in Dry Areas (ICARDA). Aleppo, Syria.
- Blade, S.F. 2006. A new vision for agricultural research in Alberta. BioEnergy Conference. Calgary, AB.
- Blade, S.F. 2006. Alberta's vision for industrial biorefining. European Union Meeting on Biorefining. Helsinki, Finland.
- Phillips, C., and S.F. Blade. 2006. The Alberta Triticale Biorefining Initiative. Biorefinica 2006. Osnabruck, Germany.
- Blade, S.F., 2006. Setting strategic direction for Alberta's 21st century agriculture. Agricultural Biotechnology International Conference. Melbourne, Australia.
- Blade, S.F. 2006 New technologies to address old problems. Address to the Nigerian National Space Research and Development Agency (signing of IITA-NASRDA MOU on the use of remote sensing to predict crop area and productivity). Abuja, Nigeria
- Blade, S.F. 2006. Working together: collaboration in agricultural research. 50th Meeting of the Association of Deans of Agriculture in Nigerian Universities. University of Ibadan, Nigeria.
- Blade, S.F. 2006 Africa's agricultural potential: IITA's contribution to innovation. 7th General Assembly, West and Central African Council for Agricultural Research and Development. Banjul, The Gambia.
- Blade, S.F. 2006. The importance of quality standards for export of agricultural commodities. Meeting of the Federal Government of Nigeria Cabinet. Abuja, Nigeria.
- Blade, S.F. 2006. Diversifying African agriculture. Joint Medium-Term Planning Meeting, West and Central African Council for Agricultural Research and Development. Dakar, Senegal.
- Blade, S.F. 2006. "Always a sceptic, never a cynic: one Canadian's view of international agricultural development." FarmTech 2006, Edmonton, Alberta.
- Blade, S.F. 2006. Driving economic development in Africa through agriculture. FarmTech 2006, Edmonton, Alberta.
- Blade, S.F. 2005. IITA's role in supporting the Global Horticultural Initiative. The Consultative Group on International Agricultural Research Annual General Meeting, Marrakech, Morocco.
- Blade, S.F. 2005. Understanding the driving forces that influence international agricultural developing: creating alternative futures. Strategic Planning Week, International Institute of Tropical Agriculture, Ibadan, Nigeria.
- Blade, S.F. 2005. IITA's Research for Development agenda in Africa: a toolbox of innovation and expertise. Keynote address to the opening session of "Reducing Impact of Mycotoxins in Tropical Agriculture, with Emphasis on Health and Trade in Africa". Accra, Ghana.

- Blade, S.F. 2005. The International Institute of Tropical Agriculture: a short history of the Institute's future. Invited presentation to the United States Agency for International Development. Washington, D.C.
- Yang, R.-C., D. Stanton, S. F. Blade, J. Helm, and D. Spaner . Isoyield analysis of barley cultivar trials in the Canadian Prairies. 18th North American Barley Research Conference, Red Deer, Alberta.
- Blade, S.F., K. Lopetinsky, M. Olson, P. Laflamme and C. Phillips. 2005. A new pulse crop for western Canada: high protein lupins. International Edible Legumes Conference. Durban, South Africa.
- Blade, S.F. 2005. The International Institute of Tropical Agriculture: Research to nourish Africa. Opening address. 10th International Association of Research Scholars and Fellows Symposium. Ibadan, Nigeria.
- Blade, S.F. 2005. A new vision for the CGIAR's science priorities. Centre Deputy Directors Committee Bi-annual Meeting. Hyderabad, India.
- Blade, S.F. 2005. A time for recovery: agriculture as an engine of growth for Liberia. Meeting of the NGO Consortium. Monrovia, Liberia.
- Blade, S.F., K. Hell and R. Bandyopadhyay. 2005. A strategic research approach to food security and safety. The Regional Workshop on Mycotoxins (Nigerian Agency for Food and Drug Administration). Lagos, Nigeria.
- Olobashola, J.J., A.G.O. Dixon and S.F. Blade. 2004. The potential and constraints for large-scale cassava production in Nigeria. 9th International Society for Tropical Root Crops-Africa Branch Symposium. Mombassa, Kenya.
- Blade, S.F. 2004. Improving livelihoods through yam production. Productive and competitive Yam Systems in West Africa. Ibadan, Nigeria.
- Hartmann, P., S.F. Blade and V. Manyong. 2004. Developing technologies for agribusiness in Nigeria. Presentation at the First National Agribusiness Investment Summit. Abuja, Nigeria.
- Blade, S.F. 2004. Charting the course; enabling IITA's responsiveness in a changing world. IITA Work Planning Week plenary session. Ibadan, Nigeria.
- Blade, S.F, B.B. Singh and S. Tarawalli. 2004. Development of Dual-Purpose Cowpea for Crop-Livestock Integration. System-wide Livestock Program annual research meeting. Mexico City, Mexico.
- Blade, S.F. 2004 and K. Ampong-Nyarko. Canadian crop diversification: lessons learned. 2nd Australian New Crops Conference. University of Queensland, Gatton, Australia.
- Acharya, Surya, Stanford Blade, Zahir Mir, James Moyer and Doug Friebe. 2004. First North American Forage Fenugreek Cultivar "Tristar". Canadian Society of Agronomy annual meeting. Edmonton, Alberta.
- Blade, S.F. and P. Hartmann. 2004. Preparing for new opportunities in a changing world. Plant Genetic Resource Conference for West and Central Africa. IITA, Ibadan, Nigeria.
- Blade, S.F. and P. Hartmann. 2004. The Role of Agricultural Research in Improved Nutrition. Opening Address for the Launch of the Nigeria Food Consumption and Nutrition Survey Report and the National Plan of Action on Food and Nutrition. Abuja, Nigeria.
- Blade, S.F. 2003. Adaptation of high protein lupins for western Canada. Canadian Society of Agronomy annual meeting, Montreal, Quebec.

- Yang, R., S.F. Blade, T. Ye and M. Bandara. 2003. Selection of test sites for field pea variety trials in Alberta. Canadian Society of Agronomy annual meeting, Montreal, Quebec.
- Blade, S.F. and T. Warkentin. 2003. Pulse crops-the new genetics. FarmTech 2003 presentation, Edmonton, AB.
- Vandenberg, A., T. Warkentiin and S.F. Blade. 2003. Faba bean: new opportunity for a feed, forage and food pulse in the prairies. Saskatchewan Pulse Crop Meeting, Saskatoon, SK.
- Blade, S.F., Among-Nyarko, K. and M. Bandara. 2002. Yield potential and constraints analysis of field pea crops in Alberta. Fourth Canadian Pulse Research Workshop. Edmonton, AB.
- Hsu, H., Phillips, C.M., Hoyano, Y. and S.F. Blade. 2002. Application of NIRS technology for developing a compositional database for Alberta pulse crops. Fourth Canadian Pulse Research Workshop. Edmonton, AB.
- Swallow, K., Blade, S.F. and C. Phillips. 2002. Isolation and quantification of phytoestrogen in northern Alberta pulse crops. Fourth Canadian Pulse Research Workshop. Edmonton, AB.
- Chang, K.F., S.F. Blade, Hwang, S.F., R. Howard, K.J. Lopetinsky, G.D. Turnbull and B. Gossen. Soil and seed conditions affect *Rhizoctonia* seedling blight and seed yield of field pea. Fourth Canadian Pulse Research Workshop. Edmonton, AB.
- Chang, K.F., Hwang, S.F., Howard, R.J. Turnbull, G.D. and S.F. Blade. 2002. Diseases occurring on chickpea in Alberta. Fourth Canadian Pulse Research Workshop. Edmonton, AB.
- Su, H., Hwang, S.F., Chang, K.F., Conner, R.L., Howard, R.J., Turnbull, G.D. and S.F. Blade. 2002. Differences in growth stages of *Ersiphe pisi* on cultivars of field pea (*Pisum sativum* L.). Fourth Canadian Pulse Research Workshop. Edmonton, AB.
- Su, H., Hwang, S.F., Chang, K.F., Conner, R.L., Howard, R.J., Turnbull, G.D. and S.F. Blade. 2002. Characterization of the metabolite produced by *Mycosphaerella pinoides*, the causal agent of ascochyta blight on field pea. Fourth Canadian Pulse Research Workshop. Edmonton, AB.
- Bains, S., Blade, S.F. and K. Kumar. 2002. Evaluation of pea breeding selections for Ascochyta blight. Pulse Production Days. Saskatoon, SK.
- Blade, S.F., T. Buss, P. LaFlamme, K. Piquette and A. Eyolfson. 2001. How can Alberta producers stabilize high field pea yields? Proceedings of the North American Pulse Improvement Association Biennial Meeting. Fargo, ND.
- Blade, S.F., K. Lopetinsky, S.F. Hwang and G. Ozipko. 2001. Field evaluation of ascochyta blight control with Bravo 500™ on field pea. Western Canada Agronomy Workshop Proceedings Volume V: 154-156. Lethbridge, Alberta.
- Blade, S.F., T. Buss, P. Laflamme and K. Lopetinsky. 2001. Can we grow niche field pea for new markets? Western Canada Agronomy Workshop Proceedings Volume V: 163-165. Lethbridge, Alberta.
- Blade, S.F. 2001. Low-THC hemp: new potential for an old crop. Germany/Canada Fibrex 2001. Alberta Research Council, Edmonton, Alberta.
- Kerr, N. and S.F. Blade. 2001. Effect of variety, maturity and processing on hemp fiber properties. Germany/Canada Fibrex 2001. Alberta Research Council, Edmonton, Alberta.
- Blade, S.F., T. Buss, P. Laflamme and K. Lopetinsky. 2001. New cereal/field pea silage systems for western Canada. FarmTech 2001 Annual Meeting. Red Deer, Alberta.
- Blade, S.F., T. Buss, P. Laflamme and K. Lopetinsky. 2001. New technologies for field pea

- disease reduction. FarmTech 2001 Annual Meeting. Red Deer, Alberta.
- Blade, S.F., T. Buss, P. Laflamme and K. Lopetinsky. 2001. Evaluation of Special Purpose Field Pea Cultivars for niche markets. FarmTech 2001 Annual Meeting. Red Deer, Alberta.
- Blade, S.F., T. Buss, P. LaFlamme, K. Piquette and A. Eyolfson. 2000. How can Alberta producers stabilize high field pea yields? Western Canada Pulse Research Conference, Winnipeg, MB.
- Blade, S.F. and K. Lopetinsky. 2000. Competition and yield effects in field pea/barley mixtures. American Society of Agronomy Annual Meeting. Minneapolis, MN.
- Blade, S.F. 2000. Industrial hemp fiber, seed and forage opportunities: the western Canadian experience. North American Industrial Hemp Council Annual Meeting. Chicago, IL.
- Blade, S.F., K.F. Chang, M. Mirza, L. Russell and M. Bandara. 2000. The Conservation and Production of Promising Medicinal Plant Species: The Canadian Experience. First African Conference on Medicinal Plants Research. Tripoli, Libya.
- Kerr, N. and S.F. Blade. 2000. Effect of cultivar and harvest date on fibre characteristic of retted hemp. □3rd Annual Ag Fiber Technology
- Blade, S.F., C. Weeks and P. LaFlamme. 2000. Evaluation (agronomy and feeding trials) of low-THC hemp as a silage crop. International Crop Science Congress. Hamburg, Germany.
- Blade, S.F. and K. Lopetinsky. 2000. New opportunities for cereal-legume intercropping. ICSC Satellite Workshop. Edinburgh, Scotland.
- Blade, S.F. .2000. Silage potential of several potential new crop species. International Herb Association Conference (Herbs 2000). Saskatoon, SK.
- Chang, K.F., Howard, R.J., Hwang, S.F., and Blade, S.F. 2000. First report of *Sclerotinia sclerotiorum* on valerian in North America. p.53., *In: Proceedings of The 1st Asian Conference on Plant Pathology, Aug 25-28, 2000 Beijing, China.*
- Blade, S. F. and R. Bjorklund. 2000. New opportunities for grain and silage faba beans in NC Alberta. Agri-Food 2000, Winnipeg, MB.
- Blade, S.F. 2000. An overview of crop diversification in Alberta. Spruce Meadows Diversification Conference. Spruce Meadows, Alberta.
- Blade, S.F. 2000. What is in the pipeline for field pea disease management? FarmTech 2000 Agricultural Conference. Red Deer, Alberta.
- Blade, S.F. 2000. New research in crop diversification for the prairies. Montana State Dept. of Agriculture-Rocky Mountain College Agriculture Conference. Billings, Montana.
- Blade, S.F., C. Weeks, K. Piquette and L. Russel. 2000. New Crops for Alberta. Agronomy Conference 2000. Edmonton, Alberta.
- Blade, S.F., C. Weeks, K. Lopetinsky and P. LaFlamme. 1999. Assessment of fodder potential for field pea/barley, fenugreek and low-THC hemp. Association for the Advancement of Industrial Crops Annual Meeting. Eugene, Oregon.
- Blade, S.F. and K.J. Lopetinsky. 1999. Evaluation of field pea (*Pisum sativum* L.) cultivars for silage biomass when grown as a sole crop or intercropped with barley (*Hordeum vulgare* L.). National Pea Improvement Association Meeting (poster). Calgary, AB.
- Blade, S.F., T. Buss, P. LaFlamme, K. Piquette and A. Eyolfson. 1999. How can Alberta producers consistently produce optimal field pea yields? National Pea Improvement Association Meeting (poster). Calgary, AB.

- Warkentin, T., Miranda, D., M. Jordan, S. Woods, B. Vandenberg, S. Blade and G. Penner. 1999. QTL analysis of lodging resistance in field pea. National Pea Improvement Association Meeting (poster). Calgary, AB.
- Blade, S.F. 1999. Keynote address: Varietal development of special crops in Alberta. Canadian Special Crops Association 13th Annual Convention. Edmonton, Alberta.
- Blade, S.F. 1999. Breeding superior field pea cultivars for western Canada. AgriFutures 1999 Conference Proceedings (Appendix 1:20-24). Red Deer, Alberta.
- Blade, S.F. 1999. Current aspects of industrial hemp production in Canada. Opportunities in Industrial Hemp Production Conference. Annapolis Valley College, Nova Scotia.
- Clayton, G.C., Rice, W., Lupwayi, N., Blade, S., Grant, C., Johnston, A. and Lafond, G. 1999. Inoculant formulation, rate placement and rhizobial survival: Are the bugs there when you need them? Western Canada Agronomy Workshop Proceedings Vol. IV:143-147. Brandon, Manitoba.
- Blade, S.F. 1999. What's New in Special Crops? "Small Can be Beautiful Conference: Carving a Niche in Alternate Crops" Proceedings (pages 16-29). Brooks, Alberta.
- Clayton, G., Harker, N., Lafond, G., Johnston, A., Rice, W., Lupwayi, N and Blade, S.F. 1999. Field pea agronomy-what do we know and where do we go? Agronomy Update 1999 Proceedings pp. 81-83. Lethbridge, Alberta.
- Blade, S.F., Buss, T., LaFlamme, P. and K. Piquette. 1998. Intensive field pea management. Western Canada Pulse Crops Research Conference Proceedings. Pages 45-46.
- Blade, S.F. 1998. Medicinal plant production: managing the "phyto-factory". Canadian Botanical Association, Saskatoon, SK. Canadian Botanical Association 98:28.
- S.F. Blade. 1998. New crop research in Alberta. *In*: Proceedings of Prairie Medicinal and Aromatic Plants Conference 1998. Pp. 15-18., Saskatoon, Saskatchewan, Canada, March 5-7.
- Chang, K.F., R.J. Howard, S.F. Hwang, R. Gaudiel, and S.F. Blade. 1998. Diseases in medicinal and aromatic plants. *In*: Proceedings of Prairie Medicinal and Aromatic Plants Conference 1998. Pp. 33-39., Saskatoon, Saskatchewan, Canada, March 5-7.
- Blade, S.F. 1998. On-farm low-THC hemp research in Alberta. Commercial & Industrial Hemp Symposium. Abstract in Winter Edition, 1998 Commercial Hemp magazine.
- Blade, S.F., R. Gaudiel and Kerr, N. 1998. Evaluation of low-THC hemp (*Cannabis sativa*) in the black and dark brown soil zones of Alberta, Canada. New Crops and New Uses, Association for the Advancement of Industrial Crops (Phoenix, Arizona) abstract. November 11-13.
- Blade, S.F. and K. Lopetinsky. 1997. Field pea-barley intercropping for high quality silage in Alberta, Canada. International Food Legume Research Conference. Adelaide, Australia.
- Blade, S.F. and R. Gaudiel. 1997. Low-THC hemp research in the black and dark brown soil zones of Alberta, Canada. American Society of Agronomy Meeting. Anaheim, CA.
- Johnston, A.M., S.F. Blade and L. Kawchuk. 1997. Sustainability of cropping systems. USC International Development Conference. Lethbridge, AB.
- Blade, S.F. 1997. Medicinal and aromatic plant research: Alberta update. Prairie Medicinal and Aromatic Plants Conference. Brandon, MB.
- Blade, S.F. 1997. Industrial hemp research in Alberta. Croppportunities IV, University of Saskatchewan, Saskatoon, SK.

- Blade, S.F. 1997. Alberta low-THC hemp research trial results. Canadian Industrial Hemp symposium. Vancouver, B.C.
- Blade, S.F. 1996. National and International Perspectives on Herb Marketing. Herb Marketing Symposium. Olds Agricultural College, Olds, AB.
- Blade, S.F., T. Terao, S.V.R. Shetty and Singh, B.B. 1995. Recent developments in cowpea cropping systems research. Second World Cowpea Research Conference. September 3-7, 1995 (Abstract). Accra, Ghana.
- Singh, B.B. and Blade, S.F. 1995. Performance of improved cowpea varieties in different cropping systems in West Africa. American Society of Agronomy meetings (abstract). St. Louis, MO. p.54.
- S.F. Blade and B.B. Singh. 1994. Providing options: improving dry season cowpea production in northern Nigeria.. American Society of Agronomy meetings (abstract). Seattle, WA. p.123.
- Singh, B.B., Blade, S.F., Terao, T., Bottenberg, H. and Florini, D. (1994). Highlights of IITA's Cowpea Research Program in Northern Nigeria. IAR/ABU Cropping Scheme meeting, Feb.28-March 4, 1994. Institute of Agricultural Research, Ahmadu Bello University, Samaru, Nigeria.
- Blade, S.F., Singh, B.B., Mather, D.E. and Smith, D.L. (1992). Yield stability of improved cowpea lines under sole and intercrop management in Nigeria. American Society of Agronomy (abstract). Minneapolis, MN. p. 66.

Books

- Phillips, C., Blade, S.F., Swallow, K. and K. Lopetinsky. 2002. Development of a compositional database for Alberta pulse crops. Centre for Agri-Industrial Technology Press, Edmonton, AB.
- Blade, S.F. 2001. Canada's Role in Sustainable Food Security for All. Presentation to the Canadian International Development Agency's "Strengthening Aid Effectiveness: New Approaches to Canada's International Assistance Program" Ministerial consultation process. Calgary, Alberta. September, 2001.
- Alberta Barley Commission. 1995. Proceedings of the Hulless Barley Utilization Seminars. S.F. Blade (ed.). Alberta Barley Commission, Calgary, Alberta. 88 pages.
- Alberta Agriculture, Food and Rural Development. 1998. Alberta Hemp Symposia Proceedings S.F. Blade (ed.). AAFRD Publications, Edmonton, Alberta. 97 pages.
- Alberta Agriculture, Food and Rural Development. 1998. Opportunities and Profits: Special Crops into the 21st Century. S.F. Blade (ed.). AAFRD Publications, Edmonton, Alberta. 163 pages.
- Alberta Agriculture, Food and Rural Development. 2001. Growing Global: New Opportunities in Organic and Diversified Agriculture. S.F. Blade (editor). March 5-7, 2001. 189 pages.

Technology transfer materials

- Alberta Agriculture, Food and Rural Development. 2000. Pulse Crops in Alberta. Alberta Agriculture, Food and Rural Development. Agdex 142/20-1 (Production manual compiled by AAFRD pulse crops researchers) 151 pages.
- Blade, S.F., Piquette, K. and M. Kjargaard. 1999. Herb and Spice Production and Planning Guide. Alberta Agriculture, Food and Rural Development. (CD-ROM)
- Blade, S.F., Hwang, S.F., Chang, K.F. and R. Howard. 1999. Diseases of Echinacea on the Canadian Prairies. Alberta Agriculture, Food and Rural Development. Agdex 630-2.
- Blade, S.F., Hwang, S.F., Chang, K.F. and R. Howard. 1999. Diseases and Pests of Ginseng in Alberta. Alberta Agriculture, Food and Rural Development. Agdex 188/600-1.

Numerous documents using our field research to extend information regarding the production of: field peas (weed control, direct seeding, drill calibration), ginseng, echinacea, borage, hemp, sunflowers, canary seed, dill, buckwheat, caraway and coriander. Production of a Special Crops Directory for western Canadian producers, processors, buyers, brokers and equipment retailers.

Thesis titles

- Blade, S.F. (1987). Source-sink alteration in eight spring wheat (*Triticum aestivum* L.) cultivars. M.Sc. thesis, University of Saskatchewan, Saskatoon, Canada.
- Blade, S.F. (1991). Evaluation of cowpea (*Vigna unguiculata* L.) lines in Nigerian cropping systems. Ph.D. thesis. Macdonald College (McGill University), Montreal, Canada.

Member

Canadian Seed Growers Association (Plant Breeder status)
Canadian Prairie Recommending Registration Committee for Grains (PRRCG)
Canadian Society of Agronomy
American Society of Agronomy
Alberta Institute of Agrologists
Crop Science Society of America

Extracurricular activities

Governing Council member, Canadian International Food Security Research Fund (appointed by Minister of International Cooperation, Government of Canada (2013-current))
Vice-Chair, African Agricultural Technology Foundation (2012-current)
Board Trustee, Edmonton Public Library (2007-2009)
Senator (elected), University of Alberta, Edmonton, Alberta, Canada (1998-2004, two terms)
Board member, Edmonton Space and Science Foundation, Edmonton, Alberta, Canada (2000-2004)