

Sheri Strydhorst, Ph.D.

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Professional Goal

Enhance the productivity, competitiveness and sustainability of Canadian agricultural crop producers

Education

Ph.D. in Cropping Systems. University of Alberta. Completed Mar. 2008. Thesis: Faba bean and lupin: new Alberta grain legume crops to improve agricultural sustainability.

M.Sc. in Plant Science. University of Alberta. Completed Aug. 2003. Thesis: Tannin free faba bean (*Vicia faba* L.) production in north central Alberta.

B.Sc. in Agriculture with Distinction. University of Alberta. Completed Apr. 2000.

Positions Held (listed chronologically)

Agronomy Research Scientist – Department of Agricultural, Food and Nutritional Science; Faculty of Agricultural, Life and Environmental Sciences; University of Alberta. July 2020 – current. Major achievements include:

- Manage a highly successful, provincial, cereal agronomy research program that combines scientific expertise with a deep first-hand knowledge of current western Canadian crop production practices.
- Collaborate with scientists, agrologists and extension experts from the provincial government, federal government, universities, private industry and provincial crop commissions.
- Partnerships with multidisciplinary teams of experts working provincially, nationally and internationally. i.e. Wheat Initiative - Agronomy Expert Working Group
- Writing successful research proposals, leading, executing and interpreting research projects for both producer and scientific audiences.

Adjunct Professor - Department of Agricultural, Food and Nutritional Science Faculty of Agricultural, Life & Environmental Sciences - University of Alberta. Edmonton, AB.

January 2015 – Current. Major achievements include:

- Supervise M.Sc. Students: M. Asif, July 2018 – current; L. Perrott, Graduated May 2017.
- M.Sc. committee member (J. Aidoo) and Ph.D. committee member (D. Abeyasingha).
- Guest lectures: PLSC 499 "Pulses in Alberta Cropping Systems"; PLSC 499 "Cereal Plant Growth Regulators 101"; PLSC 324 "Pre-Seeding, In-Crop and Post Harvest Agronomic Decisions"; PLSC 221 "Evolution of Cropping Systems" (on-going).
- Sessional Co-Instructor. PLSC 354 – Forages. (Winter 2016)
- Provide collaborative support to the Department; Plant BioSystems Member.

Research Scientist – Scientific 5 – Agronomy, Alberta Agriculture and Forestry (AF).

Barrhead, AB. January 2013 – current. Major achievements include:

- Building a leading edge, province-wide cereal agronomic research program by:
 - securing and managing \$3.1M to update field research equipment, develop new protocols and experimental designs, analyze and interpret data, develop and

- deliver key messages, prepare interim and final reports, and peer-reviewed publications.
 - bringing together multidisciplinary research expertise from AF, applied research associations, and the University of Alberta to deliver world class agronomic research at collaborative research sites (Lethbridge, Red Deer, Lacombe, Vermillion, St Albert, Bon Accord, Barrhead, and Falher).
 - identifying agronomic practices to increase wheat yields by 18% and barley yields by 6.8%. The team pinpointed synergies between specific cultivars and agronomic practices (GxExM). These findings are being used today on Alberta farms.
- Directly supervise up to six technical staff and students per year. This involves enabling and developing staff through: formal training, creating a safe environment for on-the job learning, one-on-one training, providing constructive feedback and delegating new more challenging tasks.
- Leadership Training:
 - GoA Supervisor Certificate (9 module training course completed Dec 2017);
 - UofA - Alberta School of Business - Executive Education – Enhancing Leadership Skills (completed November 2018)
- Effective partnerships with provincial and national scientists on collaborative, multi-disciplinary projects with UofA, AAFC, Lakeland College, UofM, and industry (Syngenta, SeCan, Bayer, FP Genetics, Canterra, BASF).
- Attend and present at scientific conferences provincially, nationally and internationally.
- Impacts the industry and provides specialized advice to shape farming practices provincially and nationally:
 - 2019-2020: Presentations reached an audience of over 1350 producers, industry, agronomists, government and scientists.
 - 2018-2019: Presentations reached an audience of over 1300 producers, industry, agronomists, government and scientists.
 - 2017-2018: Presentations reached an audience of over 1100 producers, industry, government and scientists.
 - 2016-2017: Presentations reached an audience of over 400 producers, industry, government and scientists.
 - 2015-2016: Presentations reached an audience of over 850 producers, industry, government and scientists.
 - 2014-2015: Presentations reached an audience of over 2000 producers, industry, government and scientists.
 - 2013-2014: Presentations reached an audience of over 800 producers, industry, government and scientists.
- Scientific referee of funding applications and peer reviewed scientific papers.
- Expert on cereal agronomic research as evidence by peer-elected positions on scientific committees: Prairie Grains Development Committee, Alberta Regional Variety Advisor Committee, Wheat Initiative - Agronomy Working Group, Canadian Society of Agronomy.
- Impacting the industry and providing specialized advice to shape farming practices provincially and nationally. Presenting to over 7800 producers, industry, agronomists, government and scientists at industry and scientific meetings between 2013 and 2020.
- Scientific Conference Organizing Committee Member for: Agronomy Update 2014, 2016, 2020; Canadian Society of Agronomy and Canadian Society for Horticultural Science Joint Annual Conference, July 10-12, 2014; Botany 2015, July 26-29, 2015; Canadian Society of Agronomy Annual Meeting, Nov 5-8, 2018; June 21-25, 2020; June 12-17, 2021 and November 21-24, 2022.

Project Manager - Plant Hormone Technology, Department of Agricultural, Food and Nutritional Science, University of Alberta. Edmonton, AB. November 2011 – December 2012. Major achievements include:

- Senior administrative support for intellectual property management and research commercialization.
- Coordinating financial and scientific reporting; writing research grant proposals; compiling research findings; writing and contributing to interim and final reports for funding agencies; hiring summer staff; field supervision of staff and students.
- Coordinating field research between Syngenta and Ozga lab.

Executive Director, Alberta Pulse Growers Commission (APG). Leduc, AB. May 2008 – July 2011. Major achievements included:

- Managing day-to-day operations of APG, an organization representing 4,700 pea, bean, lentil, chickpea, and faba bean growers in Alberta. Managing a \$2.6M annual budget.
- Reporting to a 12 member producer board and managing 3 full-time staff, 2 part-time staff and 4 contract employees.
- Leading annual APG strategic planning sessions, actively contributed to Pulse Canada strategic planning.
- Developed internal and external policies and programs to benefit Alberta pulse growers. i.e. improve AFSC crop insurance program for field pea.
- Building good working relationships with key partners such as: Pulse Canada, AAFC, Alberta Agriculture, other commodity groups and funding organizations including ACIDF, Alberta Bio-Solutions, Agriculture and Food Council.
- Securing \$3.7 Million of Science Cluster and Canadian Agricultural Adaptation Program funding for APG priority projects. A key player in the creation, governance and strategic direction of the Pulse Science Cluster funded under Growing Forward 1. This required bringing together multiple and sometimes competing: priorities, funding, resources, and skill sets to build a science based program that would benefit all aspects of the pulse industry.
- Invited to make multiple presentations to the Minister of Finance and The House of Commons Standing Committee on Finance on the need for increased agricultural research funding.
- Alberta Agriculture Performance Excellence Award for outstanding teamwork for "Alberta Multi-Faceted Agri-Food Promotions at the Shanghai World Expo in China".
- Chair of the 8th Canadian Pulse Research Workshop planning committee.
- APG representative on Agriculture Funding Consortium.

PhD Field Research Organization and Supervision. 2005-2008. Organize and supervise 4 full-time summer students, 10 casual summer students, and 3 Alberta Agriculture and Rural Development technicians.

Course Coordinator and Instructor. Plant Science 354: Forage crops undergraduate course. University of Alberta. Winter semester 2003; Teaching assistant winter semesters 2001 and 2002.

Pulse Intern. Alberta Agriculture and Rural Development. Barrhead, AB. May – Aug. 2003.

Research Technician. Alberta Pulse Grower's Commission – Zone 3. Barrhead, AB. May – Dec. 2000.

Lab Technician. University of Alberta, Department of Biological Sciences. Edmonton, AB. May 1999 – Apr. 2000.

Leadership Roles in Professional Affiliations

Peer elected for executive and leadership roles in agricultural professional societies, board member experience in numerous agricultural organizations.

- **Prairie Grains Development Committee – Executive Committee member-at-large.** April 1, 2018 for 3 yr term.
- **Alberta Regional Variety Advisory Committee – CWRS Wheat and Durum Crop Coordinator.** November 2017 – Current.
- **Wheat Initiative - Agronomy Expert Working Group Member.** April 25, 2017 – Current.
- **Canadian Society of Agronomy (CSA) Executive.** Western Director: June 2017 – November 2018. President-Elect: November 2018 – July 2019. **President:** July 2019 – current.
- **Plant Canada. CSA representative.** July 2019 – current.
- **Barley Council of Canada - Best Management Practices and Agronomy Committee.** 2016.
- **Breton Plots Management Team Member – University of Alberta.** Dec 2013 – Current.
- **Agri-Environmental Partnership of Alberta.** 2009-2011. Board member, chair of Ecosystem Services project team, and member of budget, agenda, communication and partnership survey committees.
- **Agriculture and Food Council.** 2010-2011. Board member.

Professional Awards

- **2019 Canadian Society of Agronomy - Early Career Agronomist** – awarded July 2019.
- **Alberta Agriculture Teamwork Recognition Award - Leadership of the Advanced Agronomy Research Team** – awarded July 2019.

Grants Held as Principle Investigator

Secured \$3.13M in research funding as principal investigator. Financial funding from: Alberta Wheat Commission, Saskatchewan Wheat Development Commission, Western Grain Research Foundation, Alberta Innovates Bio-Solutions, Alberta Crop Industry Development Fund, Alberta Pulse Growers Commission, Alberta Barley Commission, SeCan, Syngenta, BASF, Bayer and Engage Agro (Belchim).

Funding Consortium. Project funding: \$195,080 "Revisiting the Value of Early Fungicide Applications in Wheat", April 2018 – July 2020.

Syngenta Canada Inc. Project funding: \$50,000 "Developing Cultivar Specific Agronomic Management Packages for Spring Wheat", Dec 15, 2016 - March 31, 2019.

Funding Consortium. Project funding: \$2,346,158 "Advanced Agronomic Practices in Wheat, Barley and Pea to Maximize Yield and Harvestability", April 2014 - March 2017.

Alberta Wheat Commission. Project funding \$58,404: "Stacking Agronomic Practices to Achieve Maximum Wheat Yield", April 2013-March 2014.

Canadian Agricultural Adaptation Program. Project funding \$169,425: "Creating Pea Ingredient Supply Capacity to Build Value Added- Demand", 2011-2012.

Agricultural Initiatives Program. Project funding \$56,267: "The feasibility and

constituent Analysis of Winter Pulses grown in Alberta Agro-Ecological Environments” and “Assessment of pre-registration genetic material for cool season pulse crops in Alberta”, 2009-2010.

Alberta Crop Industry Development Fund. Project funding \$90,000: “Processing Alberta Pulses – Identifying a Process and Product for Commercialization”, 2008-09.

Alberta Crop Industry Development Fund. Project funding \$138,000: “Emerging Pulse Opportunities: Tannin Free Faba Beans and Lupins – 'The Alberta Protein Advantage'”, 2004-2007.

Alberta Pulse Growers. Project funding \$30,000: “Rotational Benefits of Pulses in Alberta Cropping Systems 'Emerging Pulse Opportunities: Tannin Free Faba Beans and Lupins – The Alberta Protein Advantage'”, 2004-2007.

Referred Publications

Twelve peer reviewed publications as author or co-author in Canadian Journal of Plant Science, Agronomy Journal, and Weed Science. Additional manuscripts in preparation.

- Beres., B., Hatfield, J., Krikegaard, J., Eigenbrode, S., Pan, W., Lollato, R., Hunt, J., **Strydhorst, S.**, Porker, K., Lyon, D., Ransom, J., and Wiersma, J. 2020. Towards a better understanding of Genotype x Environment x Management interactions – a global Wheat Initiative agronomic research strategy. *Frontiers in Plant Science*. Accepted May 22, 2020.
- Strydhorst, S.**, Yang, R.C., Gill, K., and Bowness, R. 2018. Inter-row stubble seeding and plant growth regulators to improve field pea standability and production. *Can. J. Plant Sci.* 99(2): 184-198, <https://doi.org/10.1139/cjps-2018-0237>.
- Perrott, L., **Strydhorst, S.**, Hall, L., Yang, R.C., Pauly, D., Gill, K., and Bowness, R. 2018. Effect of cultivar and agronomic management on feed barley production in Alberta environments. *Can. J. Plant Sci.* 98:1304-1320.
- Perrott, L., **Strydhorst, S.** Hall, L., Pauly, D., Bowness, R. and Gill, K. 2018. Advanced agronomic practices to maximize feed barley yield, quality, and standability in Alberta environments. i) Responses to plant density, a plant growth regulator, and foliar fungicides. *Agronomy Journal.* 110:1447-1457.
- Perrott, L., **Strydhorst, S.** Hall, L., Pauly, D., Bowness, R. and Gill, K. 2018. Advanced agronomic practices to maximize feed barley yield, quality and standability in Alberta, Canada. ii) Responses to supplemental post-emergence nitrogen. *Agronomy Journal.* 110:1458-1466.
- Strydhorst S**, Olson MA, Vasanthan T, McPhee KE, McKenzie RH, Henriquez B, Tieulie J, Middleton A, Dunn R, Pfiffner P, Coles K, Bandara M, Kruger A, Bowness R, Bing DJ, Beauchesne D. (2015) Adaptability and quality of winter pea and lentil in Alberta . *Agronomy Journal.* 107:1-18.
- Ross SM, King JK, Williams CM, **Strydhorst SM**, Olson MA, Hoy CF, Lopetinsky KJ (2015) The effects of three pulse crops on a second subsequent crop. *Canadian Journal of Plant Science.* 95(4):779-786.
- Strydhorst SM**, King JR, Lopetinsky KJ (2008) Growth analysis of faba bean and lupin with volunteer barley competition in a northern environment. *Agronomy Journal.* 100:1-6.
- Strydhorst SM**, King JR, Lopetinsky KJ, Harker KN (2008) Weed interference, pulse species, and plant density effects on rotational benefits. *Weed Science.* 56:Mar-Apr. 10p.
- Strydhorst SM**, King JR, Lopetinsky KJ, Harker KN (2008) Forage potential of intercropping barley with faba bean, lupin, or field pea. *Agronomy Journal.* 100:182-190.

Strydhorst S, King JR, Lopetinsky K (2005) Tannin-free faba bean plant population and yield response to seeding conditions. Canadian Journal of Plant Science. 85:165.

Strydhorst SM, King JR, Lopetinsky KJ, Spaner D (2004) Effects of chemical desiccation procedures on faba bean seed size and yield. Canadian Journal of Plant Science. 84:253.

Invited Presentations

Invited speaker at 8 meetings reaching 1250 producers, agronomists, industry members and students in 2019-20. Invited speaker at 78 meetings over my professional scientific career.

Strydhorst S (2020) Managing CWRS wheat for yield and protein goals. Central Alberta Co-op. Lacombe AB. March 5, 2020.

Strydhorst S (2020) PGRs and Fungicides: When do these inputs make sense? Richardson Pioneer 11th annual agriculture update. Camrose, AB. March 5, 2020

Strydhorst S (2020) Optimizing GxExM to close the yield gap in wheat. Prairie Grain Development Committee. Plenary Speaker. Winnipeg, MB. February 26, 2020.

Strydhorst S and Mangin A (2020) Multiple modes, multiple rates and multiple species – which PGR product, rate and species combo is a winner? Plant Health Summit. Saskatoon, SK. February 25, 2020.

Strydhorst S (2020) Breaking through the yield gap. University of Saskatchewan. PLSC 375 lecture. February 13, 2020.

Strydhorst S (2020) Managing CWRS wheat for yield and protein goals. Agronomy Update. Red Deer, AB. January 8, 2020.

Strydhorst S (2019-20) In Hind Sight: A review of the 2019 Crop Season. 2019 AWC, ABC, APG Regional Meeting. Barrhead, AB, November 19, 2019; BASF Technical Winter Meeting. Fort Saskatchewan, AB, December 3, 2019.

Strydhorst S (2018-19) Improving agronomic management to maximize genetic potential of new CWRS cultivars. Cyre Seed Farms, Westlock, AB, November 29, 2018; Galloway Seed Farms, Fort Saskatchewan, AB, November 30, 2018; Stamp Seed Farms, Enchant AB, December 14, 2018; Agronomy Update, Fairview, AB January 9, 2019; Agronomy Update, Lethbridge, AB, January 16, 2019; UFA Customer Meeting, Westlock, AB, January 24, 2019; Chinook Ag, Madden AB, February 20, 2019; central Alberta Co-op, Lacombe, AB, March 6, 2019.

Strydhorst S (2018) Cereal Agronomy Update – 2018 AWC, ABC, APG Regional Meetings. Strathmore, AB, November 14, 2018; Rycroft, AB, November 19, 2018; Westlock, AB, November 21, 2018.

Strydhorst S (2018) Ultimate Wheat. Crop Production Services – Top Grower Meeting. Edmonton AB, March 29, 2018.

Strydhorst S (2018) The new excitement around plant growth regulators. Central Alberta Federated Co-op. Lacombe AB, March 22, 2018.

Strydhorst S (2018) Plant Growth Regulators – What Agronomists Need to Know. Federated Co-operatives Limited. Webinar. Feb 22, 2018.

Strydhorst S (2018) Optimizing Agronomic Management for Wheat. Managing Wheat Profitability. Hazel Bluff, AB, Feb 21, 2018 and WARC Crop Opportunity. North Battleford, SK, Mar 13, 2018.

Strydhorst S (2017) Are CPS yields and prices getting you down? Alberta Wheat Commission Region 5 Meeting. Westlock, AB. November 22, 2017.

Strydhorst S (2017) Wheat Agronomy. GRO Agronomic Update. Hazel Bluff, AB. March 22,

2017.

- Strydhorst S** (2017) Part 1: Understanding and Managing Lodging. Part 2: Managing Wheat on a Cultivar Basis. Bashaw Crop Services and Bashaw Seed Cleaning Coop – Joint Meeting. Bashaw, AB. March 16, 2017.
- Strydhorst S** (2017) Advanced Agronomy. SARDA AGM. Falher, AB. February 21, 2017.
- Strydhorst S** (2017) Identifying Cultivar Specific Responses to N, Fungicide and PGRs. Where to Next? 2017 ICAN Conference. Edmonton, AB. February 16, 2017.
- Strydhorst S** (2017) Managing Crop Yield through Cultivar Specific Agronomic Management. MARA 2017 AGM, Awards Night and Supper. Fort Vermillion, AB. February 9, 2017.
- Strydhorst S** (2017) Managing Wheat on a Cultivar Basis. AB Seed Growers 88th AGM. Edmonton, AB. January 30, 2017.
- Strydhorst S** (2017) Improving Agronomic Input Efficiency: Advanced agronomic practices project review. Agronomy Update. Lethbridge, AB. January 18, 2017.
- Strydhorst S** (2016) Optimizing Your Management. Alberta Wheat Commission Regional Meeting. Westlock, AB. November 15, 2016.
- Strydhorst S** (2016) Intensive wheat management – When does it pay? Farming for Generations. Hazel Bluff Hall, AB. February 18, 2016.
- Strydhorst S** (2016) PGRs: Use under stressful conditions. Agronomy Update. Red Deer, AB. January 19, 2016.
- Perrott L, **Strydhorst S** (2016) PGRs for irrigated barley and wheat production. Irrigated Crop Production Update 2016. Lethbridge, AB. January 19, 2016.
- Strydhorst S** (2016) PGRs – Behind the scenes. Crop Sphere. Saskatoon, SK. January 12, 2016.
- Strydhorst S** (2016) Managing wheat to make the most of a tough growing season: Lessons from 2015. Saskatchewan Soil Conservation Association. Saskatoon, SK. January 11, 2016.
- Strydhorst S** (2016) Wheat genetics x intensive agronomic management. Linaria Agricultural Society. Linaria, AB. December 7, 2015.
- Strydhorst S** (2015) Intensive wheat management. High River, AB to CPS agronomic Managers (Nov 3, 2015); Grande Prairie, AB - Alberta Wheat Commission Region 5 Meeting (Nov 17, 2015); Vermillion, AB – Alberta Wheat Commission Region 4 Meeting (Nov 26, 2015).
- Strydhorst S** (2015) Lessons learnt in a tough growing season and pressing onwards with solid agronomics. Alberta Barley Commission and Alberta Pulse Growers Regional Meetings - Rycroft, AB (Nov 5, 2015), Vermillion, AB (Nov 24, 2015), Westlock, AB (Nov 25, 2015).
- Strydhorst S** (2015) Advanced agronomic practices to maximize wheat yields and harvestability. ARD Crop Production Meetings. Morinville, AB Mar 10, 2015; Neerlandia, AB Mar 11, 2015.
- Strydhorst S** (2015) Plant Growth Regulators: What Farmers and Agronomists Need to Know. Wendland Ag AGRI-FORUM. Paynton, SK. March 19, 2015.
- Strydhorst S** (2015) Optimizing spring wheat production using a systems approach. Western Ag – Professional Development Conference. Webinar. March 12, 2015.
- Strydhorst S** (2015) Wisely spending money to make money. Alberta Beef Industry Conference. Red Deer, AB. Feb 18, 2015.
- Strydhorst S** (2015) Advanced agronomic practices to maximize feed barley yields and harvestability. Western Barley Growers Association 38th Annual Convention. Calgary, AB. Feb 12, 2015.
- Strydhorst S** (2015) Plant Growth Regulators: What Agronomists Need to Know. Agronomy Update. Lethbridge, AB. Jan 20, 2015.
- Strydhorst S** (2014) Plant Growth Regulators: What Agronomists Need to Know. Manitoba

Agronomists Conference. Winnipeg, MB. December 11, 2014.

Strydhorst S, Aidoo J, Hall L (2014) Optimizing oat yield, quality and standability in central Alberta. Prairie Oat Growers Association 17th Annual Conference. Banff, AB. Dec 4, 2014.

Strydhorst S (2014) Advanced Agronomic Practices to Maximize Wheat and Feed Barley Yields and Harvestability. 2014 Farming Smarter Conference and Tradeshow. Medicine Hat. Dec 2, 2014.

Strydhorst S, Chapman B, Bowness R (2013, 2014) Stacking agronomic practices to achieve maximum wheat yield. Alberta Wheat Commission Regional Meetings – Nov 14, 15, 19, 21, 26; Dec 11. Peace Agronomy Update – 16 Jan. 2014. Linaria Agricultural Society – 21 Jan. 2014. Battle River Research Group, Crop Production Workshop – 27 Mar. 2014.

Strydhorst S (2014) Agronomic Research feeding the world and your family? Sturgeon Valley Fertilizer Annual Meeting. Morinville, AB. Nov 14, 2014.

Strydhorst S (2014) Foliar fungicide yield performance in 2013 wheat research. Cereal Leaf Disease Conference. Red Deer and Rycroft, AB. 18 and 20 Mar, 2014.

Strydhorst S (2014) PGRs 101. Agronomy Update. Red Deer, AB. 15 Jan. 2014.

Strydhorst S, Olson M, Bowness R (2013) What happened with faba bean in 2013? Alberta Pulse Growers – Zone 3 Annual Meeting. Westlock, AB. 25 Nov 2013.

Strydhorst S (2009) Residual nitrogen and other rotational benefits of pulse crops in crop rotations. Agronomy Update Conference 2009. Lethbridge, AB. 20 Jan. 2009.

Strydhorst S, Entz M (2008) Natural nitrogen in your cropping system. FarmTech 2008. Edmonton, AB. 30 Jan. 2008.

Strydhorst S (2007, 2008) Growing, optimizing, and utilizing grain legume nitrogen. Direct Seeding Workshop. Fairview, AB. 9 Jan. 2008.

Direct Seeding Advantage 2007. Nisku, AB. 21-22 Nov. 2007.

Strydhorst S (2007) Practical applications of pulse research results. Alberta Pulse Growers – Zone 3 Seminar and Annual Meeting. Westlock, AB. 28 Nov. 2007.

Strydhorst S, Mueller R (2007) Growing your own nitrogen. FarmTech 2007. Edmonton, AB. 24 Jan. 2007.

Strydhorst S (2006) Lupin and faba bean agronomics. Pulse, Canola, and Barley Meetings. Three Hills, AB. 29 Nov. 2006.

Strydhorst S (2006) The plus of pulses: growing nitrogen with pulse crops. Alberta Pulse Growers – Zone 3 Seminar and Annual Meeting. Westlock, AB. 22 Nov. 2006.

Strydhorst S (2005) Narrow leafed lupin and zero tannin faba bean: emergence, weed competition, yield potential. Market Demands and Production Opportunities for “New” Pulses in Alberta. Nisku, AB. 23-24 Nov. 2005.

Graduate student oral and poster presentations at national and international meetings resulted in the following Awards:

- Best graduate student poster award. FarmTech 2007.
- Best overall meeting presentation. 2005 Plant Canada Conference.
- 1st place in the graduate student oral competition. Canadian Society of Agronomy 2004.

Volunteer Poster and Oral Presentations at Scientific Conferences

Author or co-author on seven oral and three poster presentations at provincial, national and international scientific conferences in 2019-20. Author or co-author on 27 oral and poster presentations over my professional scientific career.

- Asif, M., **Strydhorst, S.**, Strelkov, S., Terry, A., Harding, M., and Pauly, D. 2020. Assessing the impacts of fungicides on Fusarium head blight caused by *Fusarium* species on two wheat cultivars in Alberta. ALES Graduate Research Symposium. Edmonton, AB. March 12, 2020. Oral Presentation.
- Beres, B., Hao, X., Owens, J., Mohr, R. and **Strydhorst, S.** 2020. Experiences in the Canadian Prairies with Enhanced Efficiency Fertilizers for winter and spring wheat production systems. Great Plains Soil Fertility Conference. Denver CO. March 10, 2020. Oral Presentation.
- Pauly, D., **Strydhorst, S.**, Bremer, E., MacKinnon, M. 2020. Evaluation of a novel elemental sulphur fertilizer. Alberta Soil Science Workshop. Lethbridge, AB. February 18-20, 2020. Oral Presentation.
- Guenette, K., Hernandez-Ramirez, G., **Strydhorst, S.**, and Pauly, D. 2020. Crop productivity and nitrogen use efficiency of Canadian prairie wheat varieties across different nitrogen fertilizer formulations. Alberta Soil Science Workshop. Lethbridge, AB. February 18-20, 2020. Oral Presentation.
- Strydhorst S**, et al. 2019. The Ups and Downs of PGR Responses in Different CWRS Wheat Cultivars. American Society of Agronomy. November 12, 2019. San Antonio, TX. Oral Presentation. <https://scisoc.confex.com/scisoc/2019am/meetingapp.cgi/Paper/118445>
- Thompson, L., **Strydhorst, S.**, Pauly, D. 2019. Challenging Traditional Barley End-Use Boundaries to Increase Feed Barley Profitability. American Society of Agronomy. November 12, 2019. San Antonio, TX. Oral Presentation.
- Asif, M., **Strydhorst, S.**, Strelkov, S., Terry, A., Harding, M., Pauly, D., Feng, J. 2020. Assessing the impact of fungicides on FHB caused by *Fusarium* species on two wheat cultivars in Alberta. Plant Pathology Society of Alberta. Lacombe, AB. November 5, 2019. Poster presentation.
- Gan, Y., **Strydhorst, S.**, et al. 2019. Optimizing Systems Resiliency Across the Major Canadian Ecozones. International Wheat Congress. July 25, 2019. Saskatoon, SK. Poster Presentation.
- Strydhorst S**, et al. 2019. Sustainable Intensification of Wheat Agronomy with GxExM Principles. International Wheat Congress. July 25, 2019. Saskatoon, SK. Oral Presentation.
- Asif, M., **Strydhorst, S.**, et al. 2019. Revisiting the Value of Early Fungicide Applications in Wheat. International Wheat Congress. July 23, 2019. Saskatoon, SK. Poster Presentation.
- Strydhorst S**, et al. 2018. Balancing Wheat Yield and Protein Goals with Cultivar Specific Nitrogen Management. Prairie Cereal Summit. December 13, 2018. Banff, AB. Poster Presentation.
- Strydhorst S**, et al. 2018. Balancing Wheat Yield and Protein Goals with Cultivar Specific Nitrogen Management. American Society of Agronomy. November 6, 2018. Baltimore, MD. Oral Presentation.
<https://scisoc.confex.com/scisoc/2018am/meetingapp.cgi/Paper/111435><https://scisoc.confex.com/scisoc/2018am/meetingapp.cgi/Paper/111435>

- Strydhorst S**, et al. 2018. Combating Poor Fungicide Application Practices with Focused Science Based Research. American Society of Agronomy. November 6, 2018. Baltimore, MD. Oral Presentation.
<https://scisoc.confex.com/scisoc/2018am/meetingapp.cgi/Paper/111528>
- Strydhorst S**, et al. 2017. Exploring European Solutions to Solve Canadian Barley Lodging Problems. Prairie Barley Summit. December 7, 2017. Banff, AB & Cereals Innovation Symposium. January 10, 2018. Red Deer, AB. Poster Presentation.
- Strydhorst S**, et al. 2017. Optimizing Agronomic Management on a Cultivar Basis: A Case Study with Canadian Prairie Spring Wheat. American Society of Agronomy. October 24, 2017. Tampa, FL. Oral Presentation.
- Perrott L, Hall L, **Strydhorst S**. 2017. The Effect of Chlormequat Chloride and Trinexpac-Ethyl Mixtures on Spring Wheat, Barley, and Oat Cultivar Lodging and Height in Alberta, Canada.. American Society of Agronomy. October 25, 2017. Tampa, FL. Oral Presentation.
- Strydhorst S**, et al. 2016. Improving Agronomic Input Efficiency and Maximizing Yield by Managing Wheat on a Cultivar Basis. 3rd Canadian Wheat Symposium. November 25, 2016. Ottawa ON. Oral Presentation.
- Perrott L, **Strydhorst S**, Hall L. 2016. Protein and N Yield response of cv. Amisk feed barley to post-emergence N application in Alberta. American Society of Agronomy. November 8, 2016. Phoenix, AZ. Oral Presentation.
- Strydhorst S**, et al. 2016. Cultivar specific management to improve N yield in wheat seed. American Society of Agronomy. November 8, 2016. Phoenix, AZ. Oral Presentation.
- Ding C, Yang R-C, **Strydhorst S**. 2016. Topographical and hydrological determinant of crop yield in farm fields across Alberta, Canada. November 8, 2016. Phoenix, AZ. Oral Presentation.
- Yang, R-C, Hu, Z, **Strydhorst S**. 2015. Comparative assessment of treatment effects in small-plot vs. field scale agronomy trials. American Society of Agronomy. Nov 17, 2015. Minneapolis, MN. Oral Presentation.
- Abeysingha DN, Ozga JA, **Strydhorst SM**, Doyle, P, Reineke. 2015. The use of auxins to enhance canola seed yield under controlled environment and Western Canadian field conditions. Botany 2015. July 27-29, 2015. Edmonton, AB. Poster.
- Abeysingha DN, Ozga JA, **Strydhorst SM**, Doyle, P, Reineke. 2015. The effect of auxins on grain yield in wheat under controlled environment and Western Canadian field conditions. Botany 2015. July 27-29, 2015. Edmonton, AB. Poster.
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Professional Memberships

American Society of Agronomy

Canadian Society of Agronomy

Wheat Initiative – Agronomy Expert Working Group