Time Wednesday 21 September 6:00 - 9:00 Welcome reception TBC

barlev for the eastern U.S.

9:40

	Thursday 22 September	
	Session 1 - Industry Updates - Moderator (Glen Fox)	
8:30	American Malting Barley Association	Ashley McFarland
	Craft Maltsters Guild	Jesse Bussard
	Canadian Malting Barley Technical Center	Peter Watts
	Brewing and Malting Barley Research Institute	Gina Feist
	Brewers Association	Kaylyn Kirkpatrick
	Panel discussion	
10:30	Break	
	Session 2 Plant breeding 1	Chair : Pat Hayes
11:00	Breeding for Ug99 stem rust resistance at the Agriculture and Agri-Food Canada,	James Tucker
11:30	Thaumatin-like proteins and their interaction with β-glucan and malting quality in	Jaswinder Singh
11:50	Genome Wide Association Studies (GWAS) of Root System Architecture in Barley (H.	Raja Khanal
12:10	Drought-tolerant Barley for the Upper Midwest	Jerry Frankowiak
12.10	, , , , , , , , , , , , , , , , , , , ,	Jerry Frankowiak
12:30	Lunch	
	Session 3 - Plant breeding 2	Chair : Ana Badea
1:30	Validation of a candidate gene for the Un8 barley loose smut resistance gene	Wen Zang
1:55	Frozen Promise: Toward winter barley for the Bold North	Kevin Smith
2:20	Impact of Seed Dormancy Loci 1 and 2 (SD1 and SD2) on Preharvest Sprouting,	Jason Walling
2:45	High resolution mapping of a barley hybrid susceptibility locus exploited by the spot	Shaun Clare*
	form net blotch pathogen P. teres f. maculata	
3:10	Break	
	Session 4 - Plant breeding 3	
3:40	Lodging: The great fall of barley	Michael Taylor*
4:00	Transcriptome analysis of barley varieties with contrasting responses to heat,	Ramamurthy Mahalingham
	drought and combined heat and drought stress	
4:20	Development of a multi-parent population to enhance FHB resistance in barley	Rae Page*
4:40	Integrating Aerial Imaging with Genomic Prediction for Malt Quality Traits in Winter	Amelia Loeb*
5:00	Visualization, Tools, and Resources for Barley at GrainGenes	Taner Sen
5:20	happy hour/poster session	
6:30	Free evening	
	Friday 23 September	
	Session 5 Past, present and future barley production	Chair : Ashley McFarland
8:30	Retrospective and Prospective Views of Barley Research and Development in	Cal Qualset
9:00	Lessons Learned from Six Years of Winter Barley Research in Michigan	Brook Wilke
9:20	From 'Thoroughbred' to 'Avalon', the story of one man's life long effort to improve	Nick Santantonio

The Eastern Spring Barley Nursery: Collaborative Variety Testing for a Non-Traditional James DeDecker

10:00	Break
10.00	Dreak

9:40 **Break**

	Session 6 - Abiotic and Biotic Stressors 1	Chair : Brian Steffensen
10:30	Barley resistance to a membrane-targetting fungal metabolite from Fusarium	Elizabeth Brauer
11:00	An interolog-based barley interactome as an integration framework for NLR immune signaling: A model to predict targets for resistance breeding	Roger Wise
11:25	Rpt5 encodes a receptor-like protein that provides the broadest and most effective net form net blotch (Pyrenophora teres f. teres) resistance in barley	Karl Effertz*
11:45	Sensitivity of the western Canadian Cochliobolus sativus population to propiconazole, pyraclostrobin and fluxapyraxad fungicides	Dilini Adihetty*
12:05	The effectiveness of sources of scald and net-form net blotch resistance in barley differentials and Canadian barley varieties	Kelly Turkington
12:30	Lunch	
	Session 7 - Abiotic and Biotic Stressors 2	Chair : Gina Feist
1:30	Survey of fungal endophyte microbiome diversity of barley genotypes grown in	Ana Badea
1:50	QTL analysis of novel stem rust resistances identified from the world barley core collection utilizing two bi-parental RIL world barley core collection utilizing two bi-	Matthew Brook*
2:10	Changes of Barley Stripe Rust Races and Populations in the Unites States from 1993	Xianming Chen
2:30	Analyzing the Economic Impact of Major Barley Diseases in North Dakota	Suzette Baldwin*
2:45	Break	
	Session 8 - Agronomy	Chair : Glen Fox
3:10	Irrigated Spring Barley Yield, Grain Quality, and Malt Quality Response to Nitrogen and Sulfur Fertilization	Jared Spackman
3:30	Influence of previous crop and nitrogen management on barley yield and malt quality	Aaron Mills
3:50	Sustainable Western Wisconsin Malting Barley Production	Jerry Clark
4:10	Investigation of Stay-Green and Root Traits in Barley	Jessica Williams*
4:30	Joint improvement of grain quality and agronomic characteristics	Nicholas Santantonio
4:50	Determining the critical traits associated with lodging and approaches to mitigate the risks of lodging in the Canadian barley varieties and elite breeding lines	Ludovic Capo-chichi
5:10	Close	
6:30	Dinner @ Conference center	Mike Davis
9:30	Dinner ends	
	Saturday 24 September	
	Session 9 - Hulless (naked) barley	Chair: Harmonie Bettenhausen
8:30	Optimum seeding rates for hulless barley production in eastern Canada	Raja Khanal
8:40	Shedding deoxynivalenol with naked barley	Kevin Smith
9:00	Screening a Diverse set of Naked Barley for Resistance to Covered Smut	Brigid Meints
9:20	Manipulating steep and germination protocols to improve malting quality profiles of naked barley	Cristiana Vallejos

	Session 10 - All things quality	Chair : Marta Izydorczyk
10:00	Ensuring High-quality Barley with an Economic Advantage	Jamie Sherman
10:30	Effects of grain hydration and germination time during malting on the molecular structure and mass of β -glucans and arabinoxylan in wort	Marta Izydorczyk
10:50	Investigating the genetic and environmental contributions of barley to wort ionic composition, impacting brewing process and flavor.	Hannah Turner
11:10	Early stage detection of pre-harvest germinated barley through spectral imaging and multiblock data fusion discriminant analysis	Sebestian Orth*
11:30	Effects of genotype, environment, and their interaction on yield and malting quality traits in Californian barley	Maany Ramanan*
11:50	Short Lunch	
	Session 11 - All things quality 2	Chair : Scott Heisel
12:45	Interaction of Pre-harvest sprouting, germination rate and malting quality for winter and facultative malting barley	Karl Kunze*
1:00	Genetic dissection of metabolite production during malting	Joseph Jensen*
1:15	Transcriptomics of Conrad malt quality	Marcus Vinjie
1:30	Presence of 3-Methyl Indole in Beers and Brewing Ingredients	Karsten McDonell
1:45	Close	Glen Fox
	*Student presentation	
	Program current as of 15 July 2022: Subject to change	
	Posters	
P1	Exploring the genetic limit of winterhardiness in cultivated barley	Ahmad H. Sallam
P2	Survey of fungal endophyte microbiome diversity of barley genotypes grown in	Ana Badea
Р3	The effect of field nitrogen on distilling malt quality specifications of winter-habit	Campbell Morrissy
	barley lines that are non-producers of glycosidic nitrile.	
P4	Genetic dissection of forage quality in a world core population of spring 2-row barley	Traci Hoogland
P5	Sensitivity of the western Canadian Cochliobolus sativus population to propiconazole, pyraclostrobin and fluxapyraxad fungicides	D.D. Adihetty
Р6	Genome-Wide Identification of Active Transposons for Barley Genomics and Genetic Improvement	Dongying Gao
Р7	Effect of Terroir in Whisky Production	Dustin Herb
P8	Development of scab resistance in barley lines adapted for the state of South Dakota	Tasneem Fathima
Р9	Even barley gets the blues: Effect of blue aleurone on Quality	Harmonie Bettenhausen
P10	UC Davis Malting Barley Varieties	I.A. del Blanco
P11	Location, location, location: Identifying precise, repeatable, and representative real	Kevin P. Smith
P12	Hordeum jubatum as an alternative host for fungal diseases attacking cultivated	Oadi N. Matny
P13	Development of molecular markers for glycosidic nitrile content in Barley (Hordeum	Nicole Pretini
P14	Barley of the Future: Facultative, Naked, and Flavorful	Patrick Hayes
P15	Optimum seeding rates for hulless barley production in eastern Canada	R. Khanal
P16	Pathogenicity of Fusarium graminearum and F. poae Causing Fusarium Head Blight on	K. Hudson
P17	Fusarium head blight and Xanthomonas may compete for the same niche on barley	Thomas Baldwin
P18	Development of diagnostic DNA markers for X. translucens pv. Translucens	Eunhye Hong
P19	Association mapping of micronutrient and β-glucan content in barley	Charli Faris
P20	Development of a rapid screening method to assess grain processing responses of	Renee Bierworth
•		

P21	Development of diagnostic DNA markers for X. translucens pv. translucens	Zhaohui Liu
P22	Barley as a habitat for Fusarium, and impacts of Fusarium on malt quality	Matthew Bakker
P23	Influences of variety and growing location on barley quality, its malting and brewing	Yueshi Li
	performance and beer flavor attributes	