



LAMENESS IN RUMINANTS

Embracing Excellence in Mobility and Wellbeing

CONFERENCE 2022

August 1 - 5, 2022

Bloomington, Minnesota, USA

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Lameness In Ruminants Conference 2022 Organizing Committee

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Welcome

The Organizing Committee of the 21st Symposium and 13th Conference on Lameness in Ruminants would like to welcome you to beautiful Bloomington, Minnesota. On the outskirts of Minneapolis, a metropolitan city in the Upper Midwest United States, the state of Minnesota contains endless natural beauty, the headwaters of the mighty Mississippi River and some of the largest, most innovative dairy farms in the U.S. We are very happy that you are able to join us!

This international program has been carefully selected to present the latest information and best practices for “Embracing Excellence in Mobility and Wellbeing.” The conference will feature a variety of talks, poster presentations, interactive panels, and summary discussions. Monday and Tuesday pre-conference hands-on workshops will give participants a chance to hone skills in communication for client motivation, fundamental and advanced techniques in hoof trimming, and the role of nutrition in hoof health. The three-day program begins Tuesday afternoon with an interactive lameness case study presentation of a real on-farm problem to kick start the participant discussion. Wednesday and Thursday sessions have been split into research and applied tracks with each segment concluding with an interactive summary or panel discussion. Wednesday’s research track will feature keynote speakers on data use to embrace excellence in mobility, moving on to trimming and wound healing in the late morning and afternoon sessions. The applied track will focus on lameness issues in beef and feedlot cattle. Thursday morning’s keynote kicks off again with communication strategies, followed by communication abstracts and the small ruminant presentations in the research track. The applied track on Thursday will be hoof trimmer focused with keynotes on footbaths, panels on trimming programs and short talks on claw mechanics. The closing keynote this year will be given by Dr. Jennifer Walker from Danone, giving a processor’s perspective of “Excellence in Mobility.” Friday’s post-conference workshops will offer participants a tour of local innovative, high-production dairies or a multi-session hoof trimming topic related workshop in a fun interactive format.

The organizing committee hopes that you enjoy your stay in the greater Minneapolis area and that you get a chance to spend some time traveling in the United States, before making your journey home.

We hope you enjoy the program we have prepared for you.

PRE-CONFERENCE SESSIONS

Monday, August 1

8:00 AM - 12:00 PM	<u>Southeast Parking Lot</u> Revisiting the fundamentals of functional and therapeutic hoof trimming <i>Karl Burgi/Lee Erickson</i>
12:00 PM - 1:00 PM	<u>Garden Court</u> Lunch
1:00 PM - 5:00 PM	<u>Bloomington</u> Communications: Part one - Supporting client motivation <i>Nick Bell/Erin Royster</i>
1:00 PM - 5:00 PM	<u>Southeast Parking Lot</u> Revisiting the fundamentals of functional and therapeutic hoof trimming <i>Karl Burgi/Lee Erickson</i>

Tuesday, August 2

7:00 AM - 8:00 AM	<u>Garden Court</u> Breakfast
7:30 AM - 12:00 PM	<u>Offsite Workshop - meet in the lobby to transport to Zinpro</u> Nutrition and hoof health <i>Zinpro Dairy Team</i>
8:00 AM - 12:00 PM	<u>Bloomington</u> Communications: Part two - Supporting client motivation (Continued) <i>Nick Bell/Erin Royster</i>
8:00 AM - 12:00 PM	<u>Southeast Parking Lot</u> Advanced hoof trimming: Tools, techniques and treatments in lameness beyond the standard <i>Andrea Fiedler/Charlotte Kröger</i>
12:00 PM - 1:30 PM	<u>Garden Court</u> Lunch
1:30 PM	<u>Grand Ballroom West</u> Conference Welcome and Opening
1:40 PM - 3:00 PM	<u>Grand Ballroom West</u> Interactive lameness case presentation <i>Gerard Cramer/Nigel Cook</i>
3:00 PM - 3:30 PM	<u>Grand Ballroom East</u> Refreshment Break
3:30 PM - 5:00 PM	<u>Grand Ballroom West</u> Interactive lameness case presentation (Continued) <i>Gerard Cramer/Nigel Cook</i>
5:00 PM - 6:30 PM	<u>Grand Ballroom East</u> Welcome To Minnesota: Tailgate Reception

CONFERENCE SESSIONS

Wednesday, August 3

7:00 AM - 8:00 AM	<i>Garden Court</i> Breakfast	
8:00 AM - 8:30 AM	<i>Grand Ballroom West</i> Keynote Speaker: Using data to embrace excellence in hoof health – Challenges and opportunities <i>Miel Hostens</i>	
8:30 AM - 9:00 AM	<i>Grand Ballroom West</i> Moderated questions and application discussion	
	<i>Grand Ballroom Center</i> RESEARCH TRACK	<i>Grand Ballroom West</i> BEEF TRACK
9:00 AM - 9:10 AM	An evaluation of early intervention protocols based on camera-based autonomous mobility score trends <i>Gerard Cramer</i>	Digital dermatitis + technology in feedlot <i>Doerte Doepfer</i>
9:10 AM - 9:20 AM	Using 3D-kinematics in conjunction with machine learning approaches to predict dairy cow locomotor ability <i>Elise Shepley</i>	
9:20 AM - 9:30 AM	Development and use of a graphical user interface showing claw health at herd level <i>Peter Raundal</i>	
9:30 AM - 9:40 AM	Video analytics for stance estimation of walking cows to identify visual signs of lameness <i>Santosh Pandey</i>	
9:40 AM - 10:00 AM	Interactive abstract summary	
10:00 AM - 10:30 AM	<i>Grand Ballroom East</i> Refreshment Break	
	<i>Grand Ballroom Center</i> RESEARCH TRACK	<i>Grand Ballroom West</i> BEEF TRACK
10:30 AM - 10:40 AM	Evaluation of trimming – Compliance to trimming method <i>Nynne Capion</i>	10:30 AM - 11:30 AM What do we know about toe tip necrosis and foot rot in feedlot cattle? <i>Murray Jelinski</i>
10:40 AM - 10:50 AM	The progression of lameness: Temporal connection between first signs of painful hoof diseases and apparent lameness <i>Andrea Fiedler</i>	
10:50 AM - 11:00 AM	Performance of Swedish claw trimmers regarding shape and dimensions of the trimmed claw <i>Frida Åkerström</i>	
11:00 AM - 11:10 AM	Development of a hoof horn lesion induction model in Holstein cows: The next step in lameness research to allow for the evaluation of therapeutic and preventative interventions <i>Elise Shepley</i>	
11:10 AM - 12:00 PM	Interactive abstract summary	11:30 AM - 12:00 PM Moderated feedlot application discussion
12:00 PM - 1:30 PM	<i>Garden Court</i> Lunch (Sponsored by Zinpro) <i>Grand Ballroom East</i> Poster Session/Exhibits Open	

CONFERENCE SESSIONS

Wednesday, August 3

1:30 PM - 2:00 PM	<i>Grand Ballroom West</i> Keynote Speaker: Principles of wound healing/tissue damage <i>Randall Wolcott</i>	
2:00 PM - 2:30 PM	<i>Grand Ballroom West</i> Moderated questions and application discussion	
	<i>Grand Ballroom Center</i> RESEARCH TRACK	<i>Grand Ballroom West</i> BEEF TRACK
2:30 PM - 2:40 PM	Evaluating the effects of USDA organic approved therapies on foot rot <i>Cassie Krebill</i>	Practical treatment perspectives for beef bulls <i>Luciano Marega</i>
2:40 PM - 2:50 PM	Local treatment of interdigital phlegmon (footrot) by the regional intravenous administration of Tylosin in cows <i>Marc Pineda</i>	
3:00 PM - 3:30 PM	<i>Grand Ballroom East</i> Refreshment Break	
	<i>Grand Ballroom Center</i> RESEARCH TRACK	<i>Grand Ballroom West</i> BEEF TRACK
3:30 PM - 3:40 PM	Preliminary results of preventive spraying in the milking parlor to prevent digital dermatitis lesions <i>Charlotte Kröger</i>	Practical treatment perspectives for beef cows <i>Luciano Marega</i>
3:40 PM - 3:50 PM	Randomised control trial comparing the efficacy of a topical organic acid and tea tree oil treatment with licensed topical Oxytetracycline for the treatment of digital dermatitis in dairy cattle <i>Nick Bell</i>	
3:50 PM - 4:00 PM	Bovine digital dermatitis: Trick or treat <i>Arne Vanhoudt</i>	
4:00 PM - 4:10 PM	Survey of digital dermatitis prevalence on cattle auctions - The risk of introducing digital dermatitis on a farm buying external livestock <i>Andrea Fiedler</i>	The need for detection of lesion and lameness in feedlot cattle <i>Panelists: Shane Terrel, Alex Jacobs, Kraig Hulstein, Eric Loe and Al van Engen</i>
4:10 PM - 4:20 PM	Comparative analysis of real-time object detection algorithms for digital dermatitis in dairy cattle <i>Srikanth Aravamathan</i>	
4:20 PM - 4:30 PM	Evaluating the efficacy of two footbath concentrates to control digital dermatitis in free-stall dairy cow using a non-inferiority study <i>Sair Ordaz</i>	
4:30 PM - 5:00 PM	Interactive abstract summary	
5:00 PM - 6:30 PM	<i>Grand Ballroom East</i> Wine and Cheese Reception	

CONFERENCE SESSIONS

Thursday, August 4

7:00 AM - 8:00 AM	<u>Garden Court</u> Breakfast	
8:00 AM - 8:30 AM	<u>Grand Ballroom West</u> Keynote Speaker: Communications strategies that embrace excellence in mobility <i>Nick Bell</i>	
8:30 AM - 9:00 AM	<u>Grand Ballroom West</u> Moderated questions and application discussion	
	<u>Grand Ballroom Center</u> RESEARCH TRACK	<u>Grand Ballroom West</u> TRIMMER TRACK
9:00 AM - 9:10 AM	Exploring farmer and advisor lameness management behaviours using the COM-B model <i>Beth Clark</i>	Successfully managing on farm hoof trimming program <i>Panelists - Ermith Ocampo, Hans Bothe</i>
9:10 AM - 9:20 AM	Prediction of lameness in dairy heifers using untargeted metabolomics <i>Laura Randall</i>	
9:20 AM - 9:30 AM	Randomized clinical trial investigating the impact of exercise and standing on concrete for five weeks prior to first calving on time to first lameness event in dairy heifers <i>Winston Mason</i>	
9:30 AM - 10:00 AM	Interactive abstract summary	Revisiting footbathing – Where research and technology meet practical application <i>Laura Solano</i>
10:00 AM - 10:30 AM	<u>Grand Ballroom East</u> Refreshment Break (Sponsored by Zinpro)	
	<u>Grand Ballroom Center</u> SMALL RUMINANT AND YOUNG RUMINANT TRACK	<u>Grand Ballroom West</u> TRIMMER TRACK
10:30 AM - 11:10 AM	Small ruminant lameness <i>Paul Plummer</i>	Corkscrew claws <i>Roger Olson/Lee Erickson</i>
11:10 AM - 11:30 AM	What are locomotion scores for? Thoughts after developing a locomotion score for goats <i>Neil Chesterton</i>	Update on United States data recording project <i>Gerard Cramer</i>
11:30 AM - 11:40 AM	Survey of foot lesions found at foot trimming of dairy goats <i>Neil Chesterton</i>	The use of NSAIDs in treatment <i>James Patrick Wilson</i>
11:40 AM - 11:50 AM	Antibiotic free treatment of foot lesions in dairy goats <i>Daisy Rojjackers</i>	
11:50 AM - 12:00 PM	Environmental transmission of treponeme-associated hoof disease in captive elk <i>Margaret Wild</i>	
12:00 PM - 1:00 PM	<u>Garden Court</u> Lunch	
1:00 PM - 1:30 PM	<u>Grand Ballroom West</u> Business Meeting	

CONFERENCE SESSIONS

Thursday, August 4

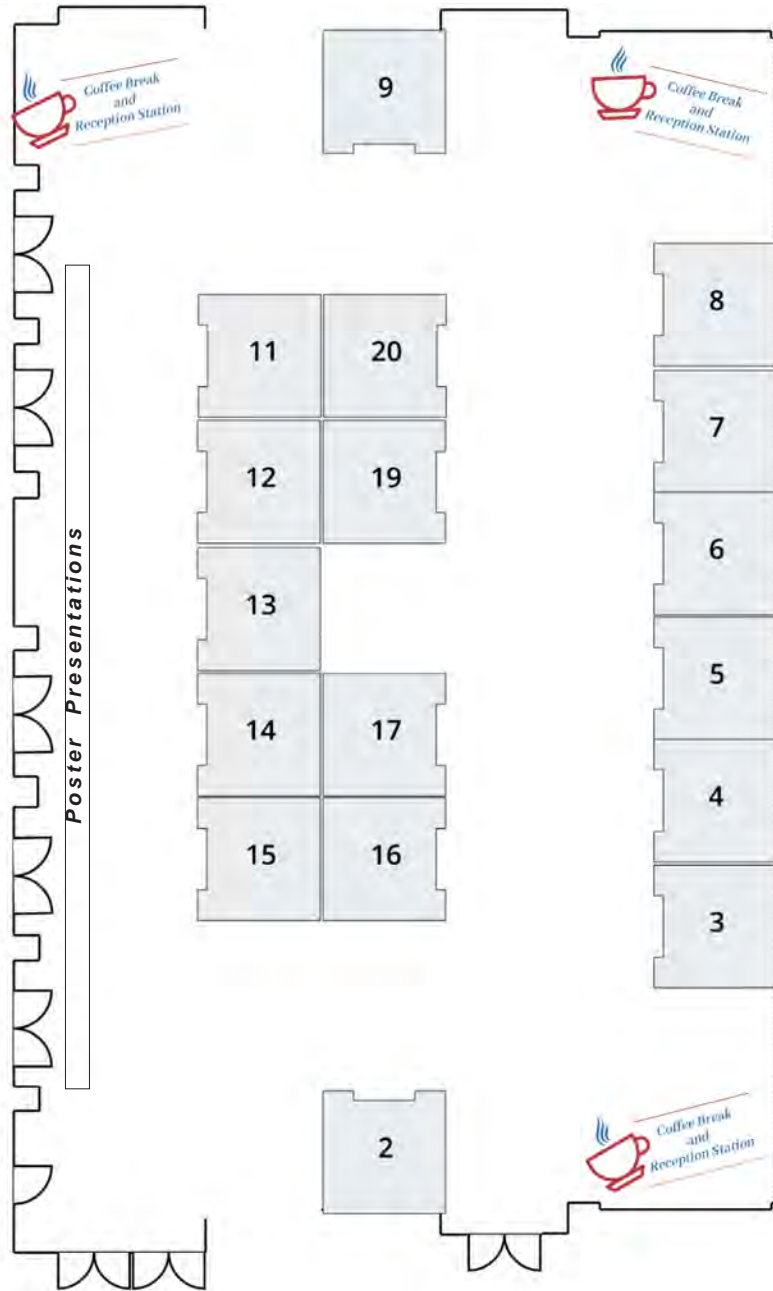
	<u>Grand Ballroom Center</u> SMALL RUMINANT AND YOUNG RUMINANT TRACK	<u>Grand Ballroom West</u> TRIMMER TRACK
1:30 PM - 2:00 PM	Metagenomics, pathogenesis and immunology lessons of treponeme-associated hoof disease of wild elk in the United States Pacific Northwest <i>Jennifer Wilson-Welder</i>	Forces inside hoof with different trimming techniques <i>Evgenij Telizhenko</i>
2:00 PM - 2:10 PM	Prevalence and risk factors for corkscrew claw syndrome in dairy heifers <i>Nigel Cook</i>	
2:10 PM - 2:20 PM	A history of lameness and low body condition score is associated with reduced digital cushion volume, measured by magnetic resonance imaging, in dairy cattle <i>James Patrick Wilson</i>	Toe length and the digital cushion: Why should we care? <i>Nick Bell</i>
2:20 PM - 2:30 PM	Global transcriptomic evaluation of the hoof lamina in beef cattle with altered mobility <i>Paul Plummer</i>	
2:30 PM - 2:40 PM	Evaluation of biomechanical strength and strain of bovine hoof lamina in elevated mobility score market weight cattle <i>Paul Plummer</i>	Moderated questions and applications
2:40 PM - 3:00 PM	Interactive abstract summary	
3:00 PM - 3:30 PM	<u>Grand Ballroom East</u> Refreshment Break	
3:30 PM - 3:40 PM	<u>Grand Ballroom West</u> The National Association of Cattle Foot Trimmers: The United Kingdom's representative body for professional cattle foot trimmers <i>Steve Paul</i>	
3:40 PM - 4:00 PM	<u>Grand Ballroom West</u> Moderated discussion: What is the role and future of national hoof trimming associations?	
4:00 PM - 4:40 PM	<u>Grand Ballroom West</u> Keynote Speaker: Processor perspective on excellence in mobility <i>Jen Walker</i>	
4:40 PM - 5:00 PM	<u>Grand Ballroom West</u> Closing Ceremonies	
6:00 PM - 9:00 PM	<u>Veranda</u> Gala – Dinner and Entertainment (Sponsored by The Dairyland Initiative – Ticket Required for Attendance)	

POST-CONFERENCE SESSIONS

Friday, August 5

6:30 AM - 8:00 PM	<u>Offsite Workshop - meet in the lobby</u> 2022 Summer Hoof Trimming School <i>Sponsored by Hoof Supervisor, Anka and Rippleview Hoof Care</i>
7:30 AM - 4:00 PM	<u>Offsite Workshop - meet in the lobby</u> Bomaz and Fetzer Farm Tours

Exhibitor Map – Grand Ballroom East



Tradeshow Exhibitors

2	SaveCows Network
3	The Dairyland Initiative
4	All4Feet
5	VES-Artex
6	Bovine Hoof Adhesives
7	Udder Tech
8	Leedstone
9	KVK
11	ALLREDO Germany
12	Armor Animal Health
13	Sirius Nutrition LLC
14	AgroChem
15	Schippers USA
16	Provita
17	Bioret Agri
19	Supervisor Systems
20	VetTec
Foyer	Zinpro
Foyer	ANKA Hoof Care
Foyer	Cattle Eye

Exhibits Open

Tuesday, August 2

3:00 PM - 3:30 PM

5:00 PM - 6:30 PM

Wednesday, August 3

10:00 AM - 10:30 AM

12:00 PM - 1:30 PM

3:00 PM - 3:30 PM

5:00 PM - 6:30 PM

Thursday, August 4

10:00 AM - 10:30 AM

12:00 PM - 1:00 PM

3:00 PM - 3:30 PM

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