



PRE-CONFERENCE SESSIONS (Optional Sessions – Additional Registration Fee Required)

(these are NOT INCLUDED in the Full Conference Attendee Fee and must be registered for separately)

Pre Con Workshop: Supporting Client Motivation (Part One & Part Two)

Pre Con Workshop: Fundamentals of Hoof Trimming

Pre Con Workshop: Advanced Hoof Trimming

Pre Con Workshop: Nutrition & Hoof Health

Monday Afternoon, August 1

Communications: Part One – Supporting Client Motivation

Nick Bell – MA VetMB PhD PG cert Vet. Ed. FHEA DipECAWBM(AWSEL) MRCVS. Honorary Associate Professor at University of Nottingham

Erin Royster –

Motivational Interview (MI) is a facilitated approach to communication which evokes natural change in people. It was originally developed to help people overcome drug and alcohol misuse, but it now applied to a range of other scenarios involving patient or client communication in medical, sporting and veterinary fields (amongst others). The name summarises the approach: motivation through interview techniques. This workshop is split into two half-day sessions to cover communication, coaching, and the role of MI. The main aim of the session is to raise awareness to the aspects of communication with clients which could stimulate behaviour change, both positively or negatively. The workshop should help delegates develop an effective structure and some skills for client coaching and to support client behaviour change.

Revisiting the Fundamentals of Functional and Therapeutic Hoof Trimming

Karl Burgi – Save Cows® Network

Lee Erickson - Sure Step Consulting International, LLC

Since Toussaint Raven developed functional and therapeutic hoof trimming 30 + years ago, scientific breakthrough and improved understanding has led to adaptations for today's modern dairy environment. This has resulted to healthier claws, increased longevity, and more productive cows worldwide. Participants will have the opportunity to learn and practice these modern adaptations while two experienced instructors instill confidence. Get a thorough understanding of Steps 1 through 5 on hoofs collected from slaughter during this 4-hour information packed practical session.

Tuesday Morning, August 2

Communications: Part Two – Supporting Client Motivation

Nick Bell – MA VetMB PhD PG cert Vet. Ed. FHEA DipECAWBM(AWSEL) MRCVS. Honorary Associate Professor at University of Nottingham

Erin Royster –

Motivational Interview (MI) is a facilitated approach to communication which evokes natural change in people. It was originally developed to help people overcome drug and alcohol misuse, but it now applied to a range of other scenarios involving patient or client communication in medical, sporting and veterinary fields (amongst others). The name summarises the approach: motivation through interview techniques. This workshop is split into two half-day sessions to cover communication, coaching and the role of MI. The main aim of the session is to raise awareness to the aspects of communication with clients which could stimulate behaviour change, both positively or negatively. The workshop should help delegates develop an effective structure and some skills for client coaching and to support client behaviour change

Advanced Hoof Trimming: Tools, Techniques and Treatments in Lameness Beyond the Standard

Katharina Grimm - Partner at Hoof Health Associates Dres. med. vet. Fiedler, Grimm & Kröger

Andrea Fiedler - Partner at Hoof Health Associates Dres. med. vet. Fiedler, Grimm & Kröger

Charlotte Kroeger - Partner at Hoof Health Associates Dres. med. vet. Fiedler, Grimm & Kröger

Different stations are presented at the beginning and then participants can go around and get hands-on the different tools and techniques we want to present as well as look at documentations of some interesting and exceptional case studies from our practice's work and discuss them.

Stations will be:

- 1. Case studies - knee injury in a 14 year old ox: Ultrasound videos, autohaemotherapy, physical therapy; iliosacral displacement in a 5 year old milking cow: physical therapy; treatment of a fractured pedal bone in a 1-year old heifer*
 - 2. Scotchast bandages for severe problems in both claws of one foot without the possibility of bloc use*
 - 3. Bandaging beyond the bikini wrap: what is your standard? What should be standard? Self-tests*
 - 4. Physical (large) wound treatment: Use of Ligasano™ and Tarsal bandages, etc.*
 - 5. New bloc systems on the market, discussion*
 - 6. Bandage removing tools/techniques for removing bandages outside the trimming chute*
 - 7. Use of Ultrasound examination on the hoof*
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Nutrition and Hoof Health

Arturo Gomez –

CONFERENCE SESSIONS – (Full, one day only and student registrations available)

Full Conference Attendee – *Includes Welcome Reception and all Conference Sessions on Wednesday, August 3 & Thursday, August 4.*

Conference Attendee for Wednesday, August 3 ONLY

Conference Attendee for Thursday, August 4 ONLY

Conference Attendee Student Rate - *Includes Welcome Reception and all Conference Sessions on Wednesday, August 3 & Thursday, August 4. To qualify for the student rate, you must currently be seeking an undergraduate or graduate degree. Proof of enrollment may be requested by the organizers of the event*

Tuesday Afternoon, August 2

Welcome Reception

Wednesday, August 3

8:00 – 9:00

Keynote Speaker – Using Data to Embrace Excellence in Mobility

Miel Holsten -

9:00 a.m. – 10:00 a.m. Research Tracks

9:00-9:10

Abstract 1: An Evaluation of Early Intervention Protocols Based on Camera-Based Autonomous Mobility Score Trends – Gerard Cramer

9:10-9:20

Abstract 2: Using 3D-Kinematics in Conjunction With Machine Learning Approaches To Predict Dairy Cow Locomotor Ability - Elsa Vasseur

9:20-9:30

Abstract 3: Development and Use Of A Graphical User Interface Showing Claw Health At Herd Level - Peter Raundal

9:30-9:40

Video Analytics for Stance Estimation of Walking Cows to Identify Visual Signs of Lameness: Santosh Pandey

9:40-10:00

Interactive Abstract Summary (Data Use to Embrace Excellence in Mobility)

9:00 a.m. – 10:00 a.m. Beef Track

9:00-10:00

DD + Technology in Feedlot –

Dorte Dopfer - DVM, PhD, Professor Department of Internal Medicine at UW-Madison

You will gain an overview of prevention and control measures against Digital dermatitis (Hairy Heel Warts) in beef cattle. Systematic action plans, including frequent foot baths of pens of beef cattle, have lead to a degree of control in beef cattle feed yards. Early automated detection using computer vision and artificial intelligence are candidates to rendering prevention and control more efficient on commercial beef cattle operations.

10:00 a.m. - 10:30 a.m.

Refreshment Break

10:30 a.m. – 12:00 p.m.

Research Tracks

10:30 – 10:40

Trimming Abstract 4: Evaluation of Trimming – What Is The Cow Walking On? – Nynne Capion

10:40 – 10:50

Trimming Abstract 5: The Progression of Lameness: Temporal Connection Between First Signs Of Painful Hoof Diseases And Apparent Lameness - Katharina Grimm

10:50-11:00

Trimming Abstract 6: The National Association Of Cattle Foot Trimmers; The UK's Representative Body For Professional Cattle Foot Trimmers - James Patrick Wilson

11:00 – 11:10

Trimming Abstract 7: Performance of Swedish Claw Trimmers Regarding Shape And Dimensions Of The Trimmed Claw - Frida Åkerström

11:10- 11:20

Wound Abstract 8: 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: Elise Shepley

11:20-11:30

Communication Abstract: Evaluating the efficacy of two footbath concentrates to control digital dermatitis in free-stall dairy cows using a non-inferiority study: Sair Ordaz

11:30 – 12:00

Interactive Abstract Summary (Hoof Trimming Mentorship and techniques for excellence in mobility)

10:30 a.m. – 12:00 p.m.

Beef Tracks

10:30-11:30

What Do We Know About Toe Tip Necrosis And Foot Rot In Feedlot Cattle?:

Murray Jelinski - DVM, MSc Professor and Alberta Chair in Beef Cattle Health and Production Medicine.

Lameness is the second most commonly diagnosed disease in feedlot cattle, accounting for up to 30% of all treatments in feedlot cattle. Furthermore, most feedlot lameness is associated with the foot, namely laminitis, footrot (FR), toe tip necrosis (TNN), and digital dermatitis (DD). This presentation will begin with a review the epidemiology of lameness in feedlot cattle, with emphasis on the timing (days on feed) of FR and TNN cases compared to cattle developing other forms of lameness. This will lead into the clinical manifestations of these two diseases, and how they differ in appearance from other common maladies of the foot. The risk factors, common treatment options, and methods of prevention will be reviewed.

11:30-12:00

Moderated Feedlot Application Discussion

12:00 p.m. - 1:30 p.m.

Lunch

1:30-2:30

**Keynote Speaker – Principles of Wound Healing/Tissue Damage
Randall Wolcott**

2:30 p.m. – 3:00 p.m.

Research Tracks

2:30-2:40

Wound Abstract 10: Evaluating the Effects Of USDA Organic Approved Therapies On Foot Rot - Cassie Krebill

2:40-2:50

Wound Abstract 16: Local Treatment of Interdigital Phlegmon (Footrot) By The Regional Intravenous Administration Of Tylosin In Cows - Marc Pineda

2:50-3:00

Grad student 3

2:30 p.m. – 3:00 p.m.

Beef Track

2:30-3:00

Practical Treatment Perspectives For Beef Bulls:

Luciano Marega – DVM, Stand-alone Hoof Trimmer in Marega Hoof Care, state of São Paulo, Brazil.

Veterinarian from the University of Marília (UNIMAR), Master in Veterinary Surgery from the Universidade Estadual Paulista (UNESP).

Brazil has 230 million beef cattle and disorders of the locomotor system are an important cause of economic losses.

The main locomotor system dysfunctions found in these animals will be addressed, divided into two topics:

1- Main foot injuries found.

2- Postural disorders found in beef cattle in Brazil.

And how these dysfunctions can cause economic losses.

3:00 p.m. – 3:30 p.m.

Refreshment Break

3:30 p.m. – 5:00 p.m.

Research Tracks

3:30 – 3:40

Wound Abstract 13: Preliminary Results Of Preventive Spraying In The Milking Parlor To Prevent DD Lesions – Kroeger

3:40 – 3:50

Wound Abstract 14: 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 - Nick Bell

3:50 – 4:00

Wound Abstract 12: Bovine Digital Dermatitis: Trick or Treat - Arne Vanhoudt

4:00 – 4:10

Communication: Abstract 22: Survey Of DD Prevalence On Cattle Auctions - The Risk Of Introducing DD On A Farm Buying External Livestock - Fiedler

4:10 – 4:20

Wound Abstract 15: Evaluating Transdermalflunixin-Meglumine in Treatment For White Line Disease In Dairy Cows - Roger Bellet Elias

4:20-4:30

Data Use Abstract: Comparative Analysis of Real-Time Object Detection Algorithms for Digital Dermatitis in Dairy Cattle: Srikanth Aravamuthan

4:30-5:00

Interactive Abstract Summary (Principles of wound healing to ensure excellence in mobility)

3:30 p.m. – 5:00 p.m.

Beef Tracks

3:30 – 4:00

Practical Treatment Perspectives for Beef Cows:

Luciano Marega – DVM, Stand-alone Hoof Trimmer in Marega Hoof Care, state of São Paulo, Brazil. Veterinarian from the University of Marília (UNIMAR), Master in Veterinary Surgery from the Universidade Estradiol Paulista (UNESP).

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And how these dysfunctions can cause economic losses.

4:00 – 5:00

Panel: The Need for Detection Of Lesion And Lameness In Feedlot Cattle

Thursday, August 4

8:00 a.m – 9:00 a.m. Keynote Speaker – Communication Strategies That Embrace Excellence in Mobility

Nick Bell - MA VetMB Ph.D. PG cert Vet. Ed. FHEA DipECAWBM(AWSEL) MRCVS
Honorary Associate Professor at University of Nottingham

Lameness in dairy cows is a welfare and economic problem that no-one should want to live with yet prevalence remains unacceptably high on many farms. The scientific understanding of lameness and foot lesions in dairy cattle has never been better, yet the trends in reported lameness prevalence are generally increasing. Many years of research has been conducted on human behaviour change (and resistance to change) in the general population. Barriers to change often outweigh the unseen or uncertain benefits to change, but also the very tangible benefits. This paper examines the approaches to supporting dairy farmers through change, from the classic advisory approach through to community-based approaches like social marketing (not to be confused with social media). Finally, the use of Motivational Interviewing, coaching and mentoring for clients is reviewed.

9:00 a.m. – 10:00 a.m.

Research Tracks & Small Ruminant Tracks

9:00-9:10

Communication: Abstract 20: Exploring Farmer And Advisor Lameness Management Behaviours Using The COM-B Model - Beth Clark

9:10-9:20

Communication: Abstract 19: Prediction Of Lameness In Dairy Heifers Using Untargeted Metabolomics - Laura Randall

9:20-9:30

Communication: Abstract 21: 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 - Winston Mason

9:30 – 9:40

Data: Abstract 4: How Do Different Frequencies Of Outdoor Access Influence The Gait And Hoof Health Of Non Clinically Lamé Cows Housed In A Movement Restricted Environment? - Shabnaz Mokhtarnazif

9:40 – 10:00

Interactive Abstract Summary (Communication Strategies for excellence in mobility)

9:00 a.m. – 10:00 a.m.

Trimmer Tracks

9:00-9:30

Successfully Managing on Farm Hoof Trimming Program Panel

9:30-10:00

What's New on Footbath!

Laura Solano - DVM, Ph.D. Dairy Comfort and Welfare Expert at Lactanet.

With increasing concerns of the control of infectious hoof lesions and with the shortcomings of implementing evidence-based footbath protocols, we'll talk about the latest in footbathing strategies including common management challenges, the use of technology and novel ways to assess its effectiveness.

10:00 a.m. – 10:30 a.m.

Refreshment Break

10:30 a.m. – 12:00 p.m.

Research Tracks & Small Ruminant Tracks

10:30-11:10

Session One: Small Ruminant Lameness:

Paul Plummer - DVM PhD DACVIM(LAIM) DECSRHM Professor and Anderson Endowed Chair in Veterinary Science at Iowa State University

This presentation will cover the causes and management of infectious small ruminant lameness, with particular attention to current knowledge and research gaps. Nomenclature will be discussed in the context of geographic variability and the potential overlap in some of these diseases will be highlighted. Treatment approaches and prevention will be addressed when appropriate.

11:10 – 11:30

SR Abstract: What Are Locomotion Scores For: Thoughts After Developing A Locomotion Score For Goats - Richard Laven

11:30-11:40

SR Abstract 24: Survey Of Foot Lesions Found At Foot Trimming Of Dairy Goats -Richard Laven

11:40 – 11:50

SR Abstract 23: Antibiotic Free Treatment of Foot Lesions In Dairy Goats - Daisy Roijackers

11:50-12:00

SR Abstract: Environmental Transmission Of Treponeme-Associated Hoof Disease In Captive Elk - Margaret Wild

10:30 a.m. – 12:00 p.m.

Trimmer Tracks

10:30-11:10

Corkscrew Claws:

Roger Olson – PAS, Dairy Account Manger for Zinpro Corporation.

Lee Erickson - Sure Step Consulting International, LLC.

Will discuss possible causes of corkscrew claws and how to prevent them. Also discuss how to manage existing corkscrew claws including how to trim them.

11:10-11:30

Update on US data recording project: CDBC

11:30-12:00

The Use of NSAID's in Treatment:

James Wilson – PhD, Foot Health Consultant at Herd Health Consultancy

This presentation will describe a study which examined the efficacy of NSAID administration in the treatment and prevention of lameness through the implementation of a thirty four month-long long randomised controlled trial (RCT). Holstein cattle within the study herd were subjected one of four treatment groups for the entirety of the study period with lameness scoring and treatment administered on a fortnightly basis and a blinded outcome score occurring fortnightly. Two cohorts of animals were identified during data analysis – those heifers that calved into the trial after initiation, and animals already milking when the trial began. The heifers calving into the study were subjected to treatment regimens from first calving through until the end of the study period or culling. From this study, it was identified that animals that received NSAID at first and subsequent calvings, and at lameness events were at a significantly reduced risk of being scored as lame or culled when compared to those that just received no NSAID at calving or lameness. It was hypothesised that systemic inflammation at calving can initiate pathological change to distal limb anatomy which predisposes an animal to CHL onset. Furthermore, the effect size and robust nature of the RCT gives strength to the case for routine administration of NSAID at calving for the purposes of lameness management. The effect size observed presents a substantial opportunity to reduce the prevalence of lameness in the global dairy herd substantially. The adult cow dataset identified no effect of NSAID administration at calving or lameness on the risk of an animal being scored as lame or culled from the herd. It could be suggested that these animals have already had some degree of pathological change to distal limb anatomy associated with either transition or lameness which has led to a predisposition to future lameness which cannot be undone. This predisposition may counteract any benefits associated with NSAID administration as a treatment or prevention, meaning that with regards to long term lameness management, there is little if any positive prospect for animals that have been previously lame or calved without NSAID administration. The authors, however, do not diminish the importance of the pain management associated with NSAID administration.

12:00 p.m. – 1:30 p.m.

Lunch and Business Meeting

1:30 a.m. – 3:00 p.m. Research Tracks & Small Ruminant Tracks

1:30 – 2:00

Session Two: Small Runimant Lameness:

J. Wilson-Welder – PhD , Research Microbiologist at USDA Agricultural Research Service, National Animal Disease Center, Ames IA

This presentation will cover the causes and management of infectious small ruminant lameness, with particular attention to current knowledge and research gaps. Nomenclature will be discussed in the context of geographic variability and the potential overlap in some of these diseases will be highlighted. Treatment approaches and prevention will be addressed when appropriate.

2:00-2:10

Beef Abstract 25: Prevalence and Risk Factors For Corkscrew Claw Syndrome In Dairy Heifers - Nigel Cook

2:10-2:20

Beef Abstract 26: A History Of Lameness And Low Body Condition Score Is Associated With Reduced Digital Cushion Volume, Measured By Magnetic Resonance Imaging, In Dairy Cattle -James Patrick Wilson

2:20-2:30

Beef Abstract 27: Global Transcriptomic Evaluation Of The Hoof Lamina In Beef Cattle With Altered Mobility – Paul Plummer

2:30 – 2:40

Beef Abstract 28: Evaluation Of Biomechanical Strength And Strain Of Bovine Hoof Lamina In Elevated Mobility Score Market Weight Cattle – Paul Plummer

2:40 – 3:00

Interactive Abstract Summary (Small Ruminant and Beef Excellence In Mobility)

1:30 a.m. – 3:00 p.m. Trimmer Tracks

1:30-2:10

Forces Inside Hoof With Different Trimming Techniques:

Evgenij Telizhenko – PhD Researcher at the Department of Biosystems and Technology, Swedish University of Agricultural Sciences, Alnarp, Sweden.

The presentation will provide a deeper understanding of the functional anatomy of the bovine foot. It will illustrate different roles of different parts of claw capsule in weight bearing. By using the newest findings, the force and pressure distribution within claw capsule will be demonstrated together with biomechanical consequences of different trimming techniques and flooring surfaces.

2:10-2:30

Trimming Q & A

2:30-300

Nick Bell Session 2

3:00 p.m. – 3:30 p.m.

Refreshment Break

3:30 p.m. – 4:00 p.m. Trimmer/Researcher Practice Tips

4:00 p.m. – 4:40 p.m. Keynote: Processor Perspective on Excellence in Mobility

Jen Walker - DVM, PhD. Director, Quality and Care at Danone North America

Dr. Jen will share a dairy processors perspective of animal welfare, why it matters and how they measure and monitor it at the farm level. Attendees will gain an appreciation of the need for transparency and accountability from farm to factory gate to fridge when it comes to quality and care and how they are all connected.

4:40 p.m – 5:00 p.m. Closing Ceremonies

6:00 – Gala

NOT INCLUDED IN THE FULL CONFERENCE REGISTRATION FEE

Additional Registration Fee Required

POST-CONFERENCE SESSIONS (Optional Sessions – Additional Registration Fee Required)

(these are NOT INCLUDED in the Full Conference Attendee Fee and must be registered for separately)

Post Con Tour of Two Wisconsin Farms

Post Con Summer Hoof Trimming School

Friday, August 5

OPTION 1 – Post Conference Tour: Bomaz & Fetzer Farms

OPTION 2 – Summer Hoof Trimming School