

# 3rd International Symposium Agenda

## 3rd International Symposium on Mastitis & Milk Quality

September 22-24, 2011



The 3rd International Symposium on Mastitis and Milk Quality is being held in conjunction with the 44th Annual Conference of the American Association of Bovine Practitioners. Symposium sessions begin on Thursday afternoon at 1:30pm and end with a Special Session on Current Events from 2:00-4:00pm on Saturday. The NMC and AABP have jointly sponsored both of the previous international symposia, which were held in 1990 and 2001.

Open to NMC, AABP, and AASRP Registrants

### Thursday, September 22

1:30-5:30pm

Opening Session

1:30-2:00pm

Keynote Address

**Quality Will Be Everything – But What, How, and Why?**



**J. Eric Hillerton**  
Chief Scientist, DairyNZ

### Session 1 – Management

2:00-5:30pm

2:00pm

EU Bulk Tank SCC Standards and Proposed US Standards: Compliance Based on Data from Four Federal Milk Marketing Orders  
*Jason Lombard*

2:15pm

Trends in US Milk Quality Using Bulk Tank Somatic Cell Counts from Four Federal Milk Marketing Orders, 1997-2010  
*Jason Lombard*

2:30pm

Effects of Ultraviolet Light Treatment on Milk and Microbiological Quality  
*James Cullor*

2:45pm

Preliminary Analysis of Bulk Tank Milk Collected from Organic and Conventional Dairy Herds in Wisconsin  
*Roxann Weix*

3:00pm

Evaluation of Novel Practices Addressing Mastitis Control on Organic Dairy Farms  
*John Barlow*

3:15pm

Objective Assessment of Pain in Dairy Cattle with Clinical Mastitis  
*Colleen Fitzpatrick*

3:30pm Break

4:00pm

Effects of Flunixin Meglumine Treatment on Activity Measures and Feed Intake During Experimentally Induced *Escherichia coli* Mastitis  
*Emily Yeiser*

4:15pm

Epidemiology of Mastitis Pathogens in Heifers on a Grazing Dairy  
*Davin Ringen*

4:30pm

Mining Sensor Data to Discover Clinical Mastitis  
*Claudia Kamphuis*

4:45pm

Economic Assessment of Using a 3M Petrifilm On-Farm Culture System for Selective Treatment of Clinical Mastitis  
*Kimberley MacDonald*

5:00pm

Evaluation of Propane Flaming of Sand for Reducing Bacterial Counts in Bedding  
*Joe Hogan*

5:15pm

Evaluation of an Iodine-Based Manuka Honey Teat Dip on Teat End Health and Intramammary Infection  
*Mark Thomas*

5:30pm Session 1 Adjournment

### Friday, September 23

8:30am-12:00pm

### Session 2 – Diagnostics and Therapy

8:30am

Accuracy of On-Farm Diagnosis of Clinical Mastitis Using 3M Petrifilm Compared to Standard Microbiology  
*Kimberley MacDonald*

8:45am

Evaluation of Clinical Mastitis Cure Rates Using a 3M Petrifilm On-Farm Culture System  
*Kimberley MacDonald*

9:00am

Test Characteristics of a Petrifilm-Based On-Farm Selective Dry Cow Therapy System: Preliminary Analyses  
*Marguerite Cameron*

9:15am

Treatments for Clinical Mastitis and Other Diseases in Large Dairy Herds in Wisconsin  
*Leane Oliveira*

9:30am

Efficacy of 5-Day Intramammary Versus Systemic Penicillin G Treatment of Clinical Mastitis Caused by Gram-Positive Bacteria: Evaluation of Bacteriological Cure Using a PCR-Test  
*Satu Pyörälä*

9:45am

Decision Tree Analysis of Treatment Strategies for Mild and Moderate Cases of Clinical Mastitis Occurring in Early Lactation  
*Pamela Ruegg*

### POSTER SESSION

Thursday, 12:00pm, to Friday, 5:00pm  
Exhibit Hall

Presenters available Friday 12:15-1:15pm

# 3rd International Symposium Agenda

**10:00am** Break

**10:45am**

Measuring Antimicrobial Drug Utilization on Dairy Farms – The Canadian Scenario  
*Vineet Saini*

**11:00am**

Antimicrobial Resistance Profiles of Bovine Mastitis Pathogens in Canadian Dairy Cattle  
*Vineet Saini*

**11:15am**

Requirements of Mastitis Detection Systems for High Throughput New Zealand Dairies  
*Claudia Kamphuis*

**11:30am**

Risk of New Intramammary Infection Acquired During the Dry Period in Cows Selectively Treated at Drying Off Based on On-Farm Culture: Preliminary Analyses  
*Marguerite Cameron*

**11:45am**

Efficacy and Economic Benefit of an Internal Teat Sealant During Drought and Rainy Weather Dry Periods on Incidence of Clinical Mastitis  
*Eial Izak*

**12:00pm** Session 2 Adjournment

## Session 3 – Pathogens

**1:45-5:45 pm**

**1:45pm**

Real-Time PCR Values for Mastitis Pathogens – Relations to Milk Quality and Herd Characteristics in Danish Dairy Herds  
*Torben Werner Bennedsgaard*

**2:00pm**

Identification of *Mycoplasma* species Using Novel Real-Time PCR Assays  
*Sukolrat Boonyayatra*

**2:15pm**

Detection of *Mycoplasma* species in Bulk Tank Milk Samples Using Conventional Culture and Real-Time PCR  
*David Wilson*

**2:30pm**

Survey of Bulk Tank Milk from All Danish Dairy Herds in 2009 and 2010 with Real-Time PCR  
*Jorgen Katholm*

**2:45pm**

Metagenomic Evaluation of Culture-Negative Clinical Mastitis Samples for Evidence of a Bacterial Etiology  
*Paul Plummer*

**3:00pm**

*Klebsiella* Mastitis: Prevention and Treatment Recommendations  
*Ynte Schukken*

**3:15pm**

Epidemiologic Aspects of a Mastitis Outbreak Caused by *Prototheca* species in a Large Dairy Herd  
*Allan Britten*

**3:30pm**

Methicillin-Resistant *Staphylococcus aureus* in North Carolina Bulk Milk Tanks  
*Jorge Ferreira*

**3:45pm** Break

**4:15pm**

Effects of *Streptococcus agalactiae* on the Columbian Dairy Industry  
*Greg Keefe*

**4:30pm**

Experiences from Herd Outbreaks of *Streptococcus agalactiae* Mastitis  
*Karin Persson Waller*

**4:45pm**

Experimentally Induced *Streptococcus uberis* Mastitis in Dairy Heifers: A Challenge Model Incident to a Vaccine Trial  
*Stephen Nickerson*

**5:00pm**

*Streptococcus uberis* Mastitis Isolates Vary in Their Ability to Form Biofilms  
*Maria E. Prado*

**5:15pm**

Experimental Mastitis Induced with Two Different *Staphylococcus epidermidis* Strains: A Non-invasive Human-Originated Strain ATCC 12228 and a Strain from Persistent Bovine Mastitis  
*Heli Simojoki*

**5:30pm**

Agglutination Tests for Identification of *Staphylococcus aureus* from Cases of Bovine Mastitis  
*Karin Persson Waller*

**5:45pm** Session 3 Adjournment

## Saturday, September 24

**8:45-11:30am**

### Session 4 – Immunology and Host Defense

**8:45am**

Establishing Benchmarks to Evaluate and Compare Dairy Herds and Udder Health Status Using Monthly Somatic Cell Counts  
*Véronique Fauteux*

**9:00am**

Reference System for Somatic Cell Counting in Milk  
*Silvia Orlandini*

**9:15am**

Association Between Subclinical Hypocalcemia, Milk Somatic Cell Count, and Clinical Mastitis  
*William Chamberlin*

**9:30am**

Phenotype Versus Function – Macrophages in the Bovine Teat  
*Anja Sipka*

**9:45am**

Mammary Cellular Immune Responses to *Staphylococcus aureus*  
*Christopher Luby*

**10:00am** Break

**10:30am**

Are Cows That Appear Resistant to Natural Infection by *Streptococcus uberis* Resistant to Infection Following a Teat Canal Inoculation Challenge?  
*J. Eric Hillerton*

**10:45am**

Immunological Response to an Experimental Intramammary Inoculation with a Killed *Staphylococcus aureus* Strain in Vaccinated and Non-Vaccinated Lactating Dairy Cows  
*Sofie Piepers*

**11:00am**

Effect of Pericervical Mastitis in Heifers on First Lactation Yield  
*J. Eric Hillerton*

**11:15am**

Relationship Between Estimated Breeding Value for Somatic Cell Count and Prevalence of Intramammary Infection in Dairy Goats  
*Scott McDougall*

**11:30am** Session 4 Adjournment

### Session 5 – Current Topics on Milk Quality and Mastitis Control

**2:00-4:00pm**

A panel of international experts will address timely topics related to milk quality and mastitis, including global somatic cell count regulations and legal limits; milk quality implications on international trade of dairy products; raw milk as it relates to food safety; antimicrobial use and resistance in dairy herds; and other socioeconomic issues facing the dairy industry.

**4:00pm** Symposium Adjournment



# 3rd International Symposium Speakers

## 3rd International Symposium on Mastitis and Milk Quality Speakers

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