



# 2024 EXPO MARCH 19-21

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**WELCOME RECEPTION**  
**TUESDAY MARCH 19**  
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**RODNEY ATKINS**

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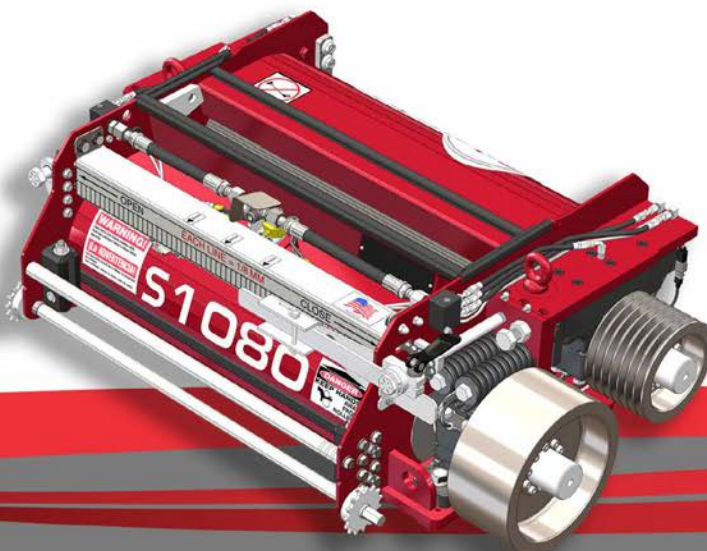
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# WELCOME TO THE 2024 EXPO

The Central Plains Dairy Expo (CPDE) is making a full comeback in 2024, and as organizers, we're thrilled to invite you to the Welcome Reception on Tuesday, March 19, featuring the country music sensation, Rodney Atkins. The Welcome Reception is highly anticipated by many, offering not only award-winning entertainment but also an opportunity to network and reconnect with old friends, while enjoying appetizers and many local dairy products.

**The Central Plains Dairy Association is committed to fostering the future growth, relevance and vitality of the dairy industry in the region.**

Join us on Wednesday, March 20, for a free prayer breakfast where we'll reflect on the numerous blessings bestowed upon farmers. Explore two expansive Expo floors, showcasing products and services from nearly 300 exhibitors. Attend any of the 65 educational sessions or check out quick educational hits in the Ed Shed, located in the Arena. This Expo is exclusively dedicated to exhibits, education and topics directly related to the dairy industry.

To ensure a seamless experience, please register in advance for CPDE 2024 at [www.centralplainsdairy.com](http://www.centralplainsdairy.com). This will expedite your check-in process and reduce wait times for your name badge. Thanks to our sponsors, we're able to offer several free food and fun events at the Expo, including donuts, grilled cheese sandwiches, ice cream treats and a wine and cheese social.

***"Given the ongoing changes in the dairy industry and potential legislative shifts in the Farm Bill for 2024, attending this year's Central Plains Dairy Expo is essential. The education and networking opportunities are sure to make a significant impact on your business. I look forward to seeing you there."***

**Kris Bousquet, CPDA President**

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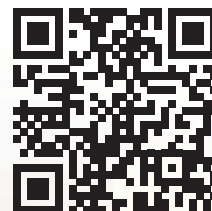
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# SCHEDULE AT-A-GLANCE

## TUESDAY, MARCH 19

5:00 PM	DOORS OPEN WELCOME RECEPTION INCLUDES CENTRAL PLAINS DAIRY APPETIZERS & ENTERTAINMENT BY RODNEY ATKINS
9:00 PM	SHERATON HOSPITALITY ROOM

## WEDNESDAY, MARCH 20

6:30 AM	AG PRAYER BREAKFAST - DOORS OPEN
8:30 AM	TRADE SHOW OPENS
8:30 AM - 10:30 AM	FREE DONUTS
11:00 AM - 4:30 PM	BEER GARDEN OPEN
9:00 AM - 5:00 PM	BREAKOUT SESSIONS
9:00 AM - 5:00 PM	BREAKOUT SESSIONS IN SPANISH
11:00 AM - 1:00 PM	FREE GRILLED CHEESE SANDWICHES
11:00 AM	DAIRY GIRL NETWORK LUNCHEON
2:00 PM - 4:30 PM	FREE ICE CREAM
4:30 PM	WINE & CHEESE SOCIAL
5:30 PM	TRADE SHOW CLOSES

## THURSDAY, MARCH 21

8:00 AM	TRADE SHOW OPENS
8:00 AM - 10:00 AM	FREE PANCAKE BREAKFAST
8:00 AM - 3:00 PM	BREAKOUT SESSIONS
8:00 AM - 3:00 PM	BREAKOUT SESSIONS IN SPANISH
11:00 AM - 3:00 PM	BEER GARDEN OPEN
11:00 AM - 1:00 PM	FREE GRILLED CHEESE SANDWICHES
1:00 PM - 3:00 PM	FREE ICE CREAM
3:00 PM	TRADE SHOW CLOSES

## ONLINE REGISTRATION, MOBILE APP, KIOSK CHECK-IN, AND MORE . . .

The Central Plains Dairy Expo (CPDE) remains free to attend. However, you need a badge to enter all activities and events.

### ► PRE-REGISTER ONLINE

Registration to attend the 2024 Expo is available **ONLINE!** To make in-person check-in fast and easy, simply register online at: [www.centralplainsdairy.com](http://www.centralplainsdairy.com)

### ► ON-SITE REGISTRATION

We will have registration available on-site as well.

### ► NAME BADGES

Instead of standing in line for your printed badge, you will walk right up to a kiosk at the event, enter your name and, if you are pre-registered, your badge will print right away for you. This registration system applies to visitors and exhibitors.

### ► MOBILE APP

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# WELCOME RECEPTION

In the heart of Tennessee, where the rolling hills meet the vibrant sounds of Nashville, lies the story of a man whose life is woven into the fabric of country music. Rodney Atkins, with his rugged voice and heartfelt lyrics, has carved a path in the industry that resonates with authenticity and passion. Atkins will be the country music star to entertain thousands at the CPDE on Tuesday, March 19 at the Denny Sanford Premier Center.

Register for the 2024 Central Plains Dairy Expo prior to the event, so your name badge is ready when you arrive at the Denny Sanford Premier Center in Sioux Falls, S.D. You must wear a name badge to attend the Rodney Atkins concert and Central Plains Dairy Expo. Go to [www.centralplainsdairy.com](http://www.centralplainsdairy.com) to register.

From his humble beginnings to topping the charts, Atkins' journey is one of perseverance, dedication, and the relentless pursuit of his musical dreams. Born in Knoxville, Tennessee, Atkins was introduced to the world of country music at a young age. Raised in a modest household, he found solace in the melodies of artists like Merle Haggard, Hank Williams Jr., and Alabama. It wasn't long before he picked up a guitar and began crafting his own songs, channeling his life experiences into lyrics that would later define his career.

Throughout his career, Atkins has stayed true to his roots, drawing inspiration from his rural upbringing and the timeless traditions of country music. His distinctive blend of honky-tonk grit and heartfelt storytelling has earned him a devoted fan base and critical acclaim, with each album showcasing his evolution as an artist.

**TUESDAY, MARCH 19, 2024**



## RODNEY ATKINS

Beyond his musical accomplishments, Atkins is also known for his philanthropic efforts and commitment to giving back to his community. He has partnered with various charitable organizations, using his platform to raise awareness for causes close to his heart, including veterans' rights and children's health initiatives.

As Atkins continues to captivate audiences with his soulful performances and infectious energy, his legacy in country music continues to grow. With each song, he invites listeners on a journey through the heartland of America, where the spirit of perseverance and the power of music collide. CPDE is thrilled to host Atkins at this year's expo.



# THANK YOU SPONSORS!



**DOORS OPEN:** Doors open to the Denny Sanford Premier Center at 5:00 p.m.

**FREE TICKETS:** Tickets to the Welcome Reception and entertainment are free for producers. However, registration is required. Visit [www.centralplainsdairy.com/registration](http://www.centralplainsdairy.com/registration) to pre-register for your name badge.

**ON THE MENU:** Join us early for heavy appetizers, cheese charcuteries and a large variety of ice cream flavors - all for free at the Welcome Reception. Thank you to our cheese and dairy donors AMPI, Valley Queen Cheese Factory, Agropur, Land O'Lakes, and Prairie Farms.




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## HOSPITALITY ROOM

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 Sheraton Hotel  
Fontenelle Room

 8:00pm- 12:30am

tuesday  
**19TH**  
march 2024

Following the CPDE welcome reception!

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2024 NMC Regional Meeting

# SAVE THE DATE

AUGUST 12 -14, 2024 | "De Bijloke" Ghent, Belgium

This meeting provides a forum for networking and sharing information about udder health, animal health and welfare, milk quality and milk safety.



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## BREAKOUT SESSIONS

# FEDERAL POLICY UPDATE

Wednesday March 20 | 12:30-1:30pm @ Premier Center



**Christopher  
Hoeger**



**Stephen  
Cain**



**Christopher  
Galen**

### Session Highlights

The dairy community has spent much of the past two years working on updates to the Federal Milk Marketing Order national pricing system. The U.S. Department of Agriculture (USDA) just wrapped up a five-month-long hearing to consider proposals to improve the efficiency of price signals and modernize how farm-level milk checks are determined. This session will discuss proposals offered by the National Milk Producers Federation, along with other groups, and assess how the USDA will eventually decide which proposals to adopt, and when that will ultimately happen.

Don't miss this opportunity to stay abreast of the latest federal policies shaping the dairy and agriculture landscape. Join us for the "Federal Policy Update" breakout session and equip yourself with the knowledge needed to navigate the evolving regulatory environment.

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# NEW DATE & NEW LOCATION!!



**THURSDAY, March 21, 2024 - 9:30am - 3pm**  
**@ The Denny Sanford Premier Center**  
**Sioux Falls, South Dakota**



**2024  
at  
CPDE**

**Dairy Beef  
Short Course**

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**THURSDAY, March 21, 2024 - 9:30 am –3 p.m.**  
***NEW DATE and NEW LOCATION!!***

***Enjoy more comfortable seating at tables with more room to learn!***

**Denny Sanford Premier Center, Sioux Falls, South Dakota**  
**AGENDA**

9 am	Registration
9:30 am	Darrell Peel, Oklahoma State— Industry Outlook
10:30 am	Dr. Ken Odde, Kansas State— Beef On Dairy economics: results of a video auction analysis
11:30	Q&A with Dr. Warren Rusche moderating
12 noon	Lunch
12:45 pm	Dr. Bob Weaber, Kansas State—Genetic considerations for a more valuable calf
1:45 pm	Dr. Lauren Kimble, Select Sires—How do dairy influenced cattle fit into value-based markets
2:45 pm	Q&A Session— Warren Rusche moderating
3:15 pm	Adjourn

The registration fee is \$70 plus \$15 if a printed copy of the proceeding is desired.  
Student fee is \$20—Deadline to register is March 8  
Register on-line at: <https://go.iastate.edu/24DBSC>



For more information contact;  
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# AG PRAYER BREAKFAST

**WEDNESDAY, MARCH 20, 7:00 - 8:30 AM**

PREMIER CENTER  
[Doors open at 6:30 AM]

This year's Central Plains Dairy Expo Ag Prayer Breakfast features the Merrill and Marlys Nettinga family of M&M Dairy, Hull, Iowa. Merrill Nettinga will share his faith-based journey and describe how the grace of God has helped his family build a sustainable farm business.

The free breakfast includes a hot breakfast buffet, plus yogurt, fruit, coffee and milk, and time devoted to prayer and reflection. Generous sponsors help offset the breakfast's costs. If you'd like to make a monetary donation during the breakfast, proceeds will go to the Western Iowa Dairy Alliance's (WIDA) Banquet Ministry. This group purchases numerous dairy foods for the meals and people they serve.

Ashley & Ellie will provide spirit lifting music at the prayer breakfast this year. Ashley Egdorf is from Sioux Center, Iowa, where she resides with her husband, David, and their three daughters. She works part time as content coordinator for Text In Church. Ashley loves all things outdoors, singing and leading worship. A Montana native, Ellie Waring grew up on a farm and now lives in Sioux Center, Iowa, with her husband, Colton, and two children. She is the creative director at RISE Ministries. Ellie is so grateful for the way God has used music in her life. This duo regularly leads worship at the New Life Church in Sioux Center, Iowa. Occasionally, they provide music for the "Mom Event," which is a community event for young mothers.



## THE NETTINGA FAMILY

M&M Dairy's history dates back to the 1940s when Garret Nettinga bought the farm. Following deployment from the Korean War, Garret's son, Morris, bought the farm and began farming. He added beef cows and switched to dairy cows in the 1960s.

Morris and Vergie Nettinga grew their farm and had seven children. One child - Merrill - expressed interest in the farm. Merrill married Marlys in 1985 and took over the farm shortly thereafter, due to his father's untimely death. They have two sons, Michael and Mitchell. Michael works for Lely and is married to Kylie, who is the new Western Iowa Dairy Alliance executive director and former agriculture instructor at Western Christian High School in Hull, Iowa. Mitchell is married to Amber. Michael and Mitchell are the fourth generation to be a part of this family farm.



Today, M&M Dairy is composed of 100 Holstein cows and 1,000 acres of corn and soybeans. Farm improvements have included new barns, a shop, silage pad, lagoon and a herringbone milking parlor built in the early 2000s. Recently, the family installed two robotic milkers.

**All are welcome to the free CPDE 2024 Ag Prayer Breakfast on Wednesday, March 20, 2024 at the Denny Sanford Premier Center in Sioux Falls, S.D.**

# Thank you to our Ag Prayer Breakfast Sponsors!



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## BREAKOUT SESSIONS

# Revenue Outside the Tank: What's Your Farm Worth?



## Martha Baker

*Agolin Platform Lead | Alltech*

Martha Baker joined Alltech in 2023 and is leading the Agolin platform and Alltech's approach to carbon monetization. Most recently, she spent 14 years working with Land O'Lakes/Purina, leading their commercial dairy sales and strategy. Baker has spent her career closely tied to farm gate value creation and continues to do this in her current role. She received her undergraduate degree from Austin Peay State University, master's degree in animal and dairy nutrition from the University of Georgia, and MBA from Strayer University.

## Session Description

Join Alltech for a roundtable panel that will cover carbon markets, benefits and how you can be sustainable on your farm. Baker will be joined by Jennifer Bockhahn, Dairy Sustainability Lead, of Concord Agriculture Partners and Holly Jones, Director of Global Sustainability, of Agropur to talk about carbon insetting and how it can bring value to your production. The presenters will focus on three primary questions. What are carbon credits? How can you increase efficiency on your farm? What is the value of carbon insetting?

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## BREAKOUT SESSIONS

# Non-Severe Gram-negative Clinical Mastitis. To Treat or Not to Treat?



## Daniela Bruno

*Dairy Advisor | University of California Cooperative Extension*

Daniela Bruno is a University of California Cooperative Extension dairy advisor. She received her Doctor of Veterinary Medicine degree from the School of Veterinary Medicine at Universidade Federal de Minas Gerais, Brazil, and her PhD from the University of California, Davis. Throughout her professional and academic career, she carried out work related to animal health and welfare, food safety, milk quality and mastitis, wastewater and dairy systems management. She has more than 25 years of experience working with bovine mastitis and her research interests include animal health and dairy production's impact on the environment.

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## Session Description

Bovine mastitis is a common and costly disease that negatively impacts dairy farms due to production losses, increased health costs, decreased milk quality, negative effects on cow welfare and increased culling and death rates. Learn about a recent field trial that investigated the outcomes of treating non-severe mastitis cases caused by Gram-negative pathogens.



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## BREAKOUT SESSIONS

### The PPR Difference: A 3-step Process to Help Dairy Cattle Deal with the Multiple Mycotoxin Challenges that They Encounter Every Day



#### Joel Pankowski, Sr.

*Manager, Dairy Technical Services | Arm & Hammer Animal and Food Production*

Joel Pankowski joined Arm & Hammer as a manager of field technical services in 2011. Currently, he manages a team of PhD and DVM technical service managers who provide technical expertise to the dairy field sales team, nutritionists and dairy producers in the Americas. Pankowski received his bachelor's and master's degrees from Ohio State University, and then earned his PhD in dairy management from Cornell University. His areas of expertise include reproductive management and health, quantitative dairy herd data analysis, transition cow management and fatty acid nutrition.

#### SPONSORED BY:



#### Session Description

Mycotoxins can be formed on crops in the field, during harvest or storage, processing or feeding. In a global survey, 85% of cereal grains sampled were contaminated with at least one mycotoxin. The threat of mycotoxins also exists in silage. Ruminants are susceptible to the detrimental effects of mycotoxins in the diet, meaning that your herd's production and performance - and, ultimately, your profitability - could be taking a hit.

Ingested mycotoxins can damage the gut epithelial cell surface, compromising a cow's ability to block mycotoxins from entering its tissues and migrating to different organs. What if you could combat the constant mycotoxin challenge from the inside out, building resilience and consistently meeting milk production goals?

During this breakout, recent research-proven concepts will be reviewed and discussed. Following this breakout, attendees will be better positioned to evaluate and implement practical solutions specific to their individual dairy operations and gain a better understanding of how their mycotoxin mitigation options can be objectively evaluated and implemented. This process will aid in the identification of research-proven and field-tested opportunities to maximize herd profitability.

SAVE THE DATE



2025 EXPO

MARCH 25-27, 2025

Denny Sanford Premier Center, Sioux Falls, SD

DCRC

Dairy Cattle Reproduction Council

2024

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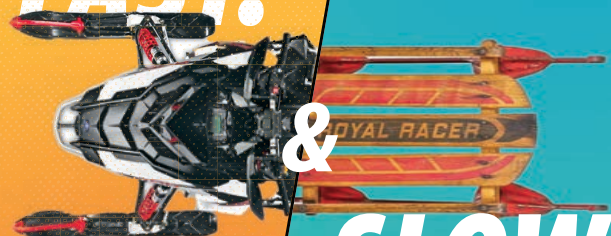
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## BREAKOUT SESSIONS

### Your Best Shot at Udder Health: Helping Cows Combat Mastitis Through Strategic Trace Mineral Supplementation



#### Craig Louder

*Technical Services Veterinarian | Axiota Animal Health*

Craig Louder joined Axiota Animal Health as a technical services veterinarian in September 2021. Previously, Louder practiced in the Magic Valley of Southern Idaho, splitting his time between dairy and beef production medicine. He graduated from Washington State University.

#### Session Description

Mastitis and poor milk quality can lead to major production and economic losses on dairy farms. While several environmental factors, genetic traits and other common stressors contribute to udder health, or lack thereof, combating these losses is crucial on dairies. During this session, Craig Louder will discuss research that demonstrates how strategic trace mineral supplementation of zinc, copper, manganese and selenium provides a positive impact on udder health. Key topics include:

- The role of injectable trace minerals in udder health
- How strategic trace mineral supplementation can affect clinical and subclinical mastitis
- Implications of trace mineral supplementation on somatic cell count

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# Myth vs. Reality: Maternal Antibodies and Calf Vaccination



## Jen Roberts

*Professional Services Veterinarian | Boehringer Ingelheim Animal Health*

Jen Roberts grew up on a dairy farm in southern Michigan where she raised show cattle and participated in daily farm management. She attended Michigan State University's College of Veterinary Medicine and received her Doctor of Veterinary Medicine degree in 2005. Upon graduation, Roberts became an associate in a food animal practice in southwest Wisconsin where her work focused on herd health and reproductive management of beef and dairy cattle. After seven years in practice, she returned to Michigan State University to teach bovine and small ruminant reproduction and dairy production medicine. In 2015, she became a Diplomat of the American College of Theriogenologists. In 2019, she joined Boehringer Ingelheim Animal Health as a cattle professional services veterinarian. She continues to hold an adjunct professor appointment at Michigan State University and routinely provides guest lectures on bovine reproduction and dairy production medicine. Her professional interests include reproduction, calf health management and education and training of farm personnel.

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## Session Description

Maternal antibodies are critical to the health and well-being of the newborn calf, but they can also interfere with vaccine responses. For years, it has been assumed that due to maternal antibody interference, we are limited in the types of vaccines that can be administered to young calves. Recent research has shown that the type of vaccine and the adjuvant system used can impact the ability of calves to respond to vaccination in the pre-weaning period. This presentation will review factors influencing vaccine response in calves and highlight research with vaccine programs designed to stimulate immunity in the face of maternal antibodies.

## BREAKOUT SESSIONS

# Milking Their Way: Producers Share Experiences with Rotary, Robots and Batch Milking



### Sam Schwartz

*Herdsman and Co-owner | Rolinda Acres*

Sam Schwartz is the herd manager and part owner at Rolinda Acres in Waterville, Iowa. Rolinda Acres milks 900 cows with 220 on a parlor and 680 on 11 DeLaval VMS (voluntary milking system) V300 robots. The robot barn was greensite built in December 2020 with eight robots, adding three more robots in December 2022.



### Aaron Titterington

*Co-owner | Jones Family Dairy*

Aaron Titterington, co-owner of Jones Family Dairy, is a fourth-generation dairy farmer, working with her family on Jones Dairy in Spencer, Iowa. They milk 1,300 Jerseys three times daily on a 64-bail DeLaval E500 rotary parlor, along with cropping 1,200 acres. Jones Dairy heavily invests in environmental sustainability of their operation, along with hosting public tours and school events to tell dairy's story.



### Juan Velez

*Chief Agricultural Officer | Aurora Organic Dairy*

Juan Velez is a recognized veterinary expert and respected national and international speaker on cattle herd health and reproduction. In his role at Aurora Organic Dairy, he is responsible for oversight of all agricultural operations, including dairy farms and pasture and crop management. Rancho Pepper Dairy, a satellite farm within the Aurora organization, installed 22 DeLaval VMS V300s in a batch milking setup in 2022, becoming the first DeLaval Batch Milking facility in North America.

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### Session Description

There is more than one way to gain efficiencies on a dairy, as farm operators milking with different systems can attest. In this producer panel, you'll hear from progressive dairy operators and their unique experience milking conventionally, robotically and in a robotic batch milking set-up. Explore different DeLaval milking systems, including conventional, robotic and batch milking. Learn about the experiences that prompted different owners to install different milking systems. Learn about the concept of VMS Batch Milking.



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## BREAKOUT SESSIONS

### Using 3D Camera Technology to Accurately Measure Body Reserves, Growth and Locomotion in Dairy Cattle



#### Fernando Diaz

CEO | Dellait - Animal Nutrition & Health

Fernando Diaz is the CEO at Dellait - Animal Nutrition & Health and works as a dairy cattle nutritionist, providing nutrition services and solutions to the dairy industry. He provides consultation to dairy farms, including nutrition and feeding management, forage and crop plans, and research and product development of new feedstuffs, additives and technologies for dairy cows. Previously, Diaz held a senior executive position at Breeze Dairy Group, LLC. As director of operations, his main responsibilities were supervising and supporting managers at all group entities for achieving the company's goal of quality milk production and profitability.

#### Session Description

This presentation will highlight the important role of 3D cameras in modern dairy farming, emphasizing their contributions to efficient management, improved animal welfare and sustainable farming practices. Additionally, it will showcase how this technology facilitates accurate assessment of body weight and body condition score (BCS) in cows, enabling tailored nutritional strategies for enhanced well-being and productivity.

During this presentation, attendees will acquire in-depth insights into:

- The utility of 3D cameras in dairy farming operations
- Optimizing farm management practices through innovative technology
- Enhancing feed efficiency and animal welfare using 3D camera solutions
- Understanding the impact of 3D camera technology on reproductive success in dairy farming

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## BREAKOUT SESSIONS

# Navigating the Dairy Markets



## Sarina Sharp

*Market Analyst | Daily Dairy Report*

Sarina Sharp helps dairy producers manage their commodity risk, using cash contracts, futures and options to lock in prices for feed, milk and cattle. Also, Sharp writes about the markets for the Daily Dairy Report and other publications.

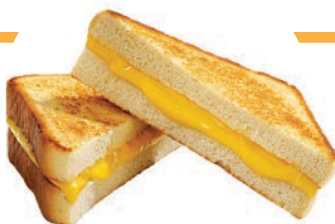
## Session Description

With dry wit and insightful analysis, Sarina Sharp will help dairy producers navigate the ups and downs of the feed, dairy and beef markets. She will explore how supply and demand have shaped today's commodity prices and provide an outlook for the rest of 2024. Primarily, she will address three questions. Are feed costs headed up or down? Is there room for more U.S. milk? Where are the heifers?

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## DGN connect LUNCHEON

Attend the Dairy Girl Network luncheon at Central Plains Dairy Expo from 11:30 a.m. to 1:00 p.m. on Wednesday, March 20, 2024 in Sheraton Ballroom A.

This lunch is for all women involved with any part of dairy - whether as a calf feeder, dairy owner, marketing or sales consultant servicing dairy farms or cheese producers, veterinarians, researchers, etc. If you are a dairy supporter or there is a dairy cow involved in what you do, you're invited.

There will be a cost for this luncheon. Visit [DairyGirlNetwork.com](https://DairyGirlNetwork.com) to learn more and register for this inspiring networking opportunity.

Join Dairy Girl Network here at Central Plains Dairy Expo and for our National Conference in November!

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# Practical Applications for Raising Calves



## Minnie Ward

*Business Coach | Everything Calves Consulting LLC*

Minnie Ward and her family own and operate a custom calf-raising facility. Her career started as a preschool teacher. Having grown up on a dairy farm, it became apparent the dairy industry was where she needed to be. Ward discovered that working with calves was her true passion. During her career, she has worked as a herds person on a few large dairies and nutritionist/calf and heifer specialist for Land O'Lakes/Purina, Sci-Tech and Form A Feed. Most recently, Ward worked for Calf Star as the company's Midwest Sales representative. Last April, she started her own calf consulting business - specializing in practical approaches to calf rearing. In this role, her goal is to help dairy producers, calf ranches and industry professionals through training and implementing new calf health/rearing practices.

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## Session Description

This session will provide a practical approach to raising calves, including colostrum management and nutrition - from birth through weaning. You'll learn about the tools needed to get the job done, along with communication of expectations for calf managers and employees. Discussion will revolve around:

- Communication of goals
- Basic understanding of calf rearing
- Tools needed to successfully get the job done

# Dairy Checkoff Taste and Learn Experience

## Midwest Dairy

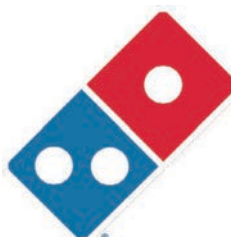
At Midwest Dairy, we proudly represent approximately 4,400 dairy farm families to 41 million consumers across our 10-state region. We work on their behalf to build dairy demand by inspiring consumer confidence in dairy products and production practices. We focus our efforts on sharing insights and developing programs for our retail, food service, health and wellness, school food service and industry partners. Checkoff's goal is to maximize our impact by working with and through partners to share resources, insights and real-time experiences that showcase how dairy products resonate with today's consumer. Be sure to stop by our booth to speak with Midwest Dairy Staff to learn more about these partnerships.

## Session Description

Midwest Dairy, your local checkoff organization, in partnership with Dairy Management Incorporated, invites you to join us for a taste and learn experience showcasing checkoff's investments in consumer outreach to build trust and sales for dairy. In this session, participants will have the opportunity to interact with checkoff staff who work with partners to bring dairy to life.

The taste and learn experience will feature the Dollar General, DePaul Blue Demons and Domino's brands and partnerships over the past year.

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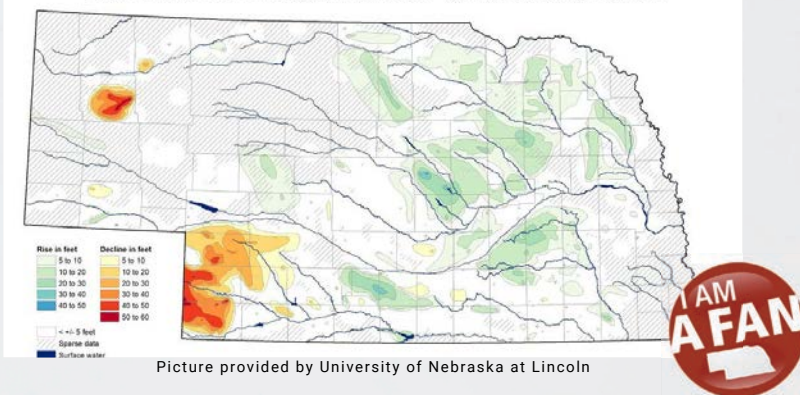
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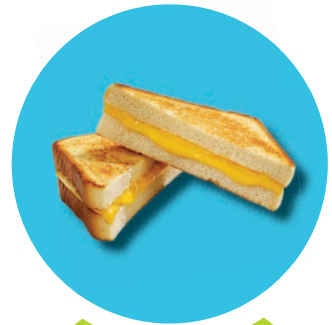
Groundwater-Level Changes in Nebraska - Spring 1981 to Spring 2021



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# Economics of Transition Cow Health



## Eduardo Ribeiro

*Associate Professor | University of Guelph*

Eduardo Ribeiro grew up on a small family farm in southern Brazil and graduated in veterinary medicine at the Santa Catarina State University in 2008. In 2009, he moved to Florida to start his graduate studies in the department of animal sciences at the University of Florida, completing a master's degree in 2011 and a PhD in 2015. In 2016, Ribeiro joined the department of animal biosciences at the University of Guelph as an assistant professor, and in 2020 he was promoted to associate professor. At Guelph, Ribeiro teaches animal health and animal reproduction to undergraduate and graduate students, and leads a research program in reproductive health of dairy cattle.

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## Session Description

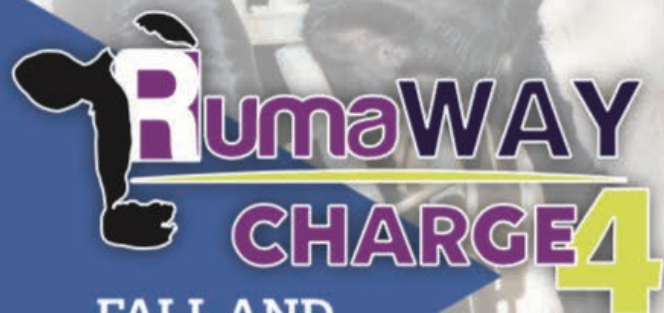
In this seminar, Ribeiro will discuss the economic importance of setting cows up for a smooth transition that minimizes metabolic health events and inflammation. Cows that stay healthy during the transition period are less likely to be culled, more likely to become pregnant, and produce more milk. Ribeiro will discuss how herds can have a healthy transition and what this means to their bottom line.



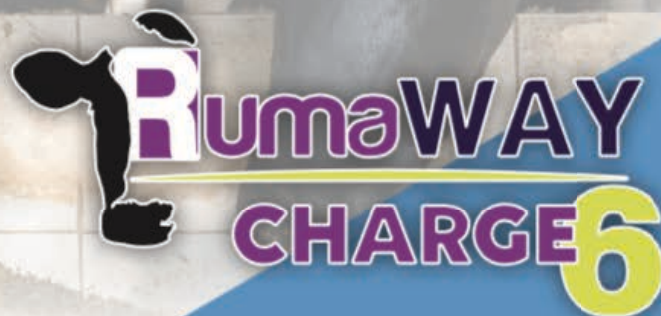
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## Stop Clostridium Problems Before They Start



### Troy Brown

*Forage Product Line Manager | Form-A-Feed*

Troy Brown has traveled throughout the United States speaking to and training dairy and beef producers on how to improve forage quality by incorporating forage best management practices. He has more than 30 years of practical forage quality management experience. He graduated from the University of Wisconsin and has served on the Midwest Forage Association board of directors.

### Session Description

In the last six to eight years, the dairy nutrition industry has identified clostridial contamination of feedstuffs as a critical problem for gut health, cow productivity and income loss. Dairy experts have wisely spent time and resources focused on protecting the cow from the negative effects of ingesting these pathogens with significant positive return on investment. Come listen to Troy Brown discuss the next critical step – how to reduce and prevent contamination before it ever reaches the cow. Be proactive, go on offense and manage your way to higher quality feeds for your cows.

At this session, attendees will learn ways to be proactive in managing higher feed quality for their dairy cows, increase their return on investment and how to take the next critical step in forage management.

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# BREAKOUT SESSIONS

## FORAGE 360: Forage Rotations and Planning



### Jeff Jackson

*Forage Specialist, U.S. Product Manager-Grain Sorghum, Forage Sorghum, Triticale, Hybrid Rye | CROPLAN*

Jeff Jackson grew up on a small family farm in northwest Iowa and ventured to South Dakota State University to pursue a bachelor's degree in animal science and master's degree in plant science. He spent some time in Ag retail before joining the CROPLAN team as a seed district sales manager in 2005. Growth of the dairy industry in the I-29 corridor led to his current position as a forage specialist in 2010. The last 13 years he has spent with growers helping them in technical support to grow the biggest pile of high-quality feed that they can. Product management for the United States of forage sorghums, grain sorghum and triticale have also found their way to his plate as he continues to help find ways to grow more crops, more efficiently on the same acres for #COWCHOW.

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### Session Description

By utilizing the many different crops available today, how do we look at rotations to keep a living root in the soil for improved soil health, produce more usable tons of dry matter per acre and hold down forage input costs? Improve forage tonnage, improve soil health and improve your return on investment in multiple ways utilizing alfalfa, corn silage, warm season annuals and winter annuals to make a robust, diverse crop rotation system

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## High Sand Reclamation: What Types of Sand Work Best?



### Renee Schrift

*Business Line Director - Agricultural Systems | McLanahan Corporation*

Renee Schrift is the business line director - agricultural systems for McLanahan Corporation. Since joining the company in 2001, Schrift has worked to expand McLanahan's customer base and dealer network, and she continues to serve as a resource for dairy producers. She now leads the Agricultural Systems Business Unit, further developing the brand's global growth. Schrift attended Pennsylvania State University, where she attained a bachelor's degree in dairy and animal science.

### Session Description

Sand is considered the "gold standard" of dairy cow bedding, but not just any sand is good for recycling and reuse. There are a variety of factors to consider when selecting the grade of sand used for dairy cow bedding. These factors consider what is needed for cow health and comfort, as well as what allows for the highest amount of reclamation. The method in which a dairy handles its sand-laden manure contributes to the grade of sand needed. Attend this session to learn more about what type of sand will keep your cows healthy and producing milk, while allowing you to recycle the highest amount of sand and save your dairy money. Key session topics include:

- A complete sand comparison showing types of sand and recovery rates
- Solutions to maximize fine sand recovery
- Learn why sand is considered the "gold standard" for bedding

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## Sand Separation Systems and Fine Sand Capture Prior to Anaerobic Digestion

### Session Description

There's a misconception in the dairy industry that you can't reap the benefits of anaerobic digestion when you bed with sand. While it is crucial to get as much sand as possible out of manure effluent before it is sent to a digester, it can be done with the right sand separation system. Sand separation systems allow dairies to recycle sand for reuse in freestalls while pre-treating the manure that is used in a digester. The ability to separate sand from manure allows dairies with digesters to continue using sand bedding, which is crucial to cow health and milk quality. In addition, recycled sand provides dairies with an added economic benefit of reducing the amount of sand needed. Attend this breakout session to learn more about sand manure separation and sustainable best practices that can be used on any size dairy for improving cow health and milk quality, as well as reducing environmental impact. Key topics include:

- How sand separation can improve cow health and milk quality
- Available sand separation systems that can provide a sustainable solution for pre-digestion treatment
- Tips on adding a sand separation system to a dairy
- A better understanding of the sand separation systems available that can help dairies limit the need for new sand expenses while financially benefiting from digestion



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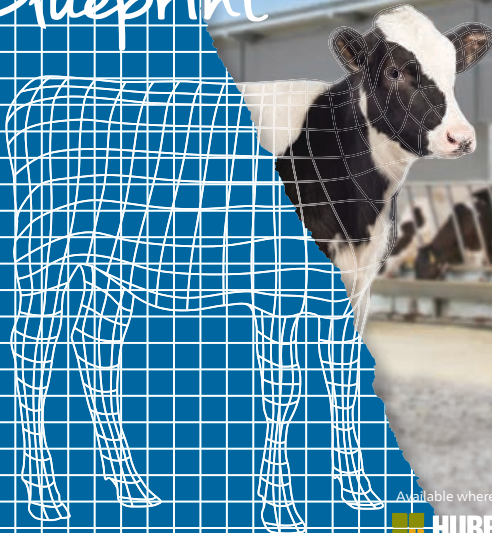
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# Dairy Margin Outlook and Strategies to Consider



## Jeff Toll

*Account Executive | CIH - Commodity & Ingredient Hedging*

A veteran of the finance industry for 15 years, Toll joined CIH in 2010. He helps dairy producers manage their risk, identify opportunities and develop comprehensive margin management strategies in the volatile geopolitical climate. In this capacity, he regularly speaks at dairy industry events. Prior to joining CIH, he worked on the Chicago Board Options Exchange. He holds a bachelor's degree in finance and marketing from Marquette University and a Series 3 license (National Commodities Futures Examination).

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## Session Description

Let's take a look at the underlying fundamentals of feed and dairy markets, an outlook of forward margins and strategies (e.g., cash, futures/options, DRP [Dairy Revenue Protection]) one may wish to consider given today's agricultural landscape.

# SAVE THE DATE



## BREAKOUT SESSIONS

# Optimize the End: Marketing Endpoints for Beef × Dairy Cattle



## Luke Fuerniss

*Technical Services Team | STgenetics*

Luke Fuerniss is employed by STgenetics where he serves on the Technical Service Team and provides support for the beef × dairy program. Fuerniss holds a doctorate from Texas Tech University and a master's degree from Colorado State University for which he studied feedlot cattle, carcass composition and beef × dairy production systems. A two-time All-American in livestock judging, Fuerniss is driven to optimize genetic selection while building practical systems to capture data.

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## Session Description

Beef × dairy cattle remain highly variable, but quality, consistency, and predictability are needed to maximize returns for day-old calves, top feeder cattle markets, and produce premium carcasses. Sire selection should optimize the value of calves at their targeted marketing endpoint. Join the discussion to learn how to use tools offered by STgenetics to maximize the profitability of your beef × dairy program. By attending this session, you'll:

- Identify the optimal marketing endpoint for your beef × dairy calves
- Understand the challenge of variability for feedlots and packing plants
- Realize the value of genomic evaluations focused on beef × dairy cattle

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## Domino Effect of Microbial Coinfections in Dairy Cows



### Beth Galbraith

*Senior Research Manager | Microbial Discovery Group*

Beth Galbraith is a senior research manager for Microbial Discovery Group, part of the United Animal Health family of companies. Born and raised in the Midwest, she has more than 20 years of experience in the discovery and development of microbial products for the livestock industry. She holds a master's degree in animal science from the University of Illinois where her research centered on development of molecular techniques for characterization of rumen microbial communities. She has held various roles in research and development, and management, focused on furthering the understanding of gut microbial ecology, host-microbe relationships, characterization of novel microbial strains and application of microbial technologies for the livestock and food industries. She is passionate about using science to improve dairy cow health and productivity through practical, effective technologies.

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### Session Description

Coinfections, defined by the presence of at least two different infectious agents in the same host, can lead to more severe disease outcomes and altered transmission dynamics compared to singular infections. In dairy cattle, understanding how microbial coinfections can influence the "tipping point" between health and disease can help dairy health teams develop comprehensive pathogen control strategies. Using rectal swab surveillance data, we explore associations between coinfections and disease symptoms in dairy cows, across the United States, and examine the impact of several specific enteric pathogens on bacterial virulence gene quantities.

In dairy cattle, understanding how microbial coinfections can influence the "tipping point" between health and disease can help dairy health teams develop comprehensive pathogen control strategies.

Explore associations between coinfections and disease symptoms in dairy cows across the United States. Examine the impact of several specific enteric pathogens on bacterial virulence gene quantities.

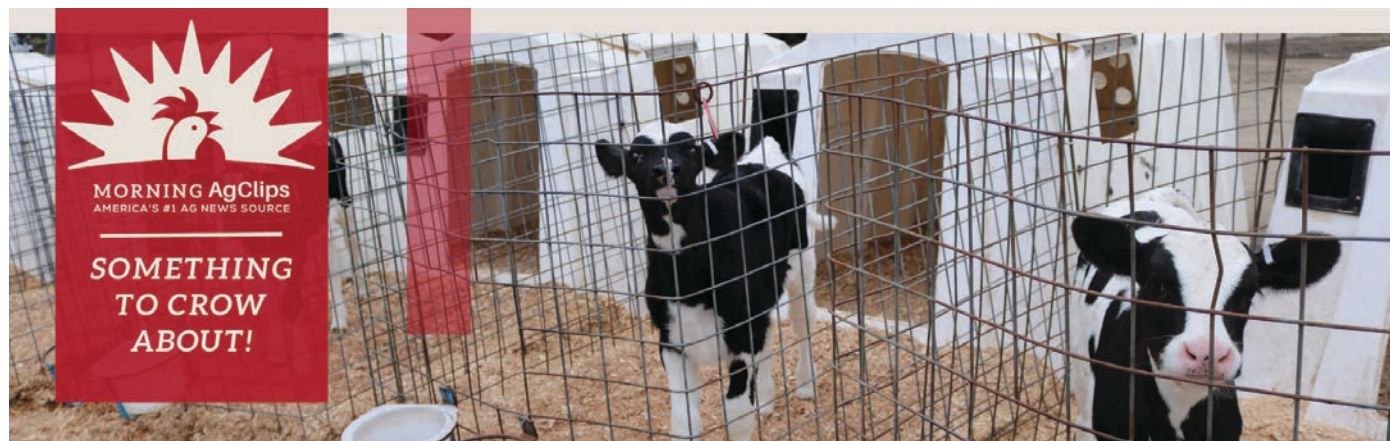


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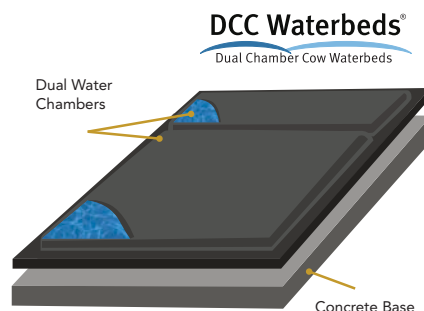
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## Leveraging Herd Insights for Better Decision Making



### Dylan Ash

*Farm Performance Consultant | VAS*

Leveraging his passion for the dairy industry, Dylan Ash collaborates with dairy producers and industry professionals in Minnesota as a farm performance consultant for VAS. Ash graduated from Dordt University where he earned a bachelor's degree in business administration, broadening his network and expertise within the dairy industry. In his current role, he aims to enhance operational efficiency for producers and empower them to make more informed, data-driven decisions utilizing the VAS suite of products.



### Stephanie De Vries

*Farm Performance Consultant | VAS*

Stephanie De Vries serves as a farm performance consultant at VAS, utilizing her expertise in dairy herd and farm management solutions to assist Central Plains dairies in achieving operational efficiency. Originally from California's Central Valley, De Vries is a graduate of Dordt University where she received her bachelor's degree in animal science. Prior to joining VAS, De Vries gained valuable boots-on-the-ground experience in herd management and dairy and beef reproduction.

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### Session Description

As technology and farmers' needs evolve, VAS is creating new reproduction and herd health insights to better support the modern dairy farmer. Join VAS as they explore how you can leverage the herd data you're already collecting for more streamlined and profitable decision making. See key features of their latest Insights in action, including how to easily measure herd performance against your goals, the ability to set performance alerts, and how to analyze reproduction and herd health trends with easy-to-use graphs, tables, filters and more. This breakout session will help you:

- Gain a deeper understanding of the tools included in a DairyComp subscription
- Learn how to assess health and reproduction metrics using new features
- Dig into how health and reproduction metrics can drive value to your bottom line

# BREAKOUT SESSIONS

## Engaging in Climate-Smart Projects to Monetize On-farm Environmental Initiatives



### Lucas Sjostrom, Moderator

*Managing Director, Edge Dairy Farmer Cooperative/Executive Director, Minnesota Milk Producers Association*

Lucas Sjostrom works with two key dairy organizations in the Upper Midwest, bringing resources to dairy farmers to help them continue operating in a productive manner. As the executive director of Minnesota Milk Producers Association, he oversees the day-to-day operations of the association to ensure that the mission and vision of the organization is upheld. Sjostrom also serves in a leadership role with Edge Dairy Farmer Cooperative, working on policy and regulatory issues throughout the cooperative's geography. He most recently represented dairy farmers at the Federal Milk Marketing Order hearings to be sure individual farmer voices were heard. In addition to his "day job," he and his wife, Alise, along with her parents, Jerry and Linda Jennissen, own and operate Redhead Creamery and he can still be found milking cows at their farm.



### Tim Baye, Panelist

*Professor, Business Development/Energy Specialist | University of Wisconsin*

Tim Baye is a professor of business development/energy finance and a state energy specialist with the University of Wisconsin-Madison, Division of Extension. His research and educational efforts serve energy and clean-tech business, professional and policy leaders. He has developed, taught and managed business education programs, serving owners, executives and senior management throughout Wisconsin and beyond. Baye has been a leader in the development of specialized educational, research and advisory programs for Wisconsin's electrical power, bioenergy, agri-business and manufacturing sectors. Baye is a frequent speaker at international, national and regional renewable energy conferences. Baye's expertise includes project formation, planning and modeling, marketing strategy and strategic planning, project financing, analysis and development, capital budgeting, financial analysis and pricing.



### Lauren Brey, Panelist

*Director of Strategic Partnerships and Sustainability | Edge Dairy Farmer Cooperative*

Lauren Brey is the director of strategic partnerships and sustainability for Edge Dairy Farmer Cooperative. In this role, she serves as managing director of Farmers for Sustainable Food (FSF) and directs their support of farmer-led conservation groups and sustainability projects. Brey is also responsible for fostering relationships with other organizations to bring more value and resources to the members of Edge. She previously worked as a scientist for a cheese company. Brey is a 2013 graduate of the University of Wisconsin-Madison with a bachelor's degree in food science and life sciences communication. She is also involved on her family's dairy and beef farm, Brey Cycle Farm LLC and Brey Family Beef, in Sturgeon Bay, Wis.

### Session Description

During this discussion, panelists will discuss opportunities for farmers to be involved in the U.S. Department of Agriculture Climate-Smart projects, including expectations and the stipends available for participants. The panelists will share their experiences in managing farmer-led sustainability projects and the benefits farmers have realized through participation in the on-farm projects.

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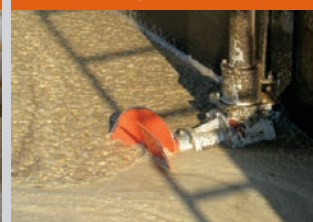
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# Leveraging Alfalfa Technologies in a Changing Environment



## Randy Welch

*National Alfalfa Agronomist | Forage Genetics International*

Randy Welch is the national alfalfa agronomist at Forage Genetics International. Welch is responsible for educating and training alfalfa sales teams, retailers and growers on alfalfa management and best practices. Early in his career, he operated Welch Crop Consulting Service, an independent crop scouting and consulting business that served dairy producers and crop producers. For the last 30 years, Welch has worked in sales, product development and agronomic training roles for national alfalfa seed brands. Welch studied soil science and crop production at the University of Minnesota-Waseca and earned his bachelor's degree in agronomy and farm management from the University of Wisconsin-River Falls.

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## Session Description

Whether you're a seasoned alfalfa grower or just exploring the idea of adding alfalfa into your rotation, this session is designed to share the latest insights and opportunities for growing quality alfalfa. Join the discussion to learn about various alfalfa technologies and how they can help you effectively manage resources, produce high-quality feed and meet sustainability goals on your operation. The session's key topics include:

- Explore alfalfa's resilience and versatility and how alfalfa technologies can help your operation adapt and thrive in diverse environmental conditions
- Uncover the key to producing nutritious alfalfa to feed your dairy herd
- Gain insight into the balance between maximizing production and conserving resources, and discover how alfalfa technologies offer solutions that optimize yield while promoting responsible resource stewardship

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## Making Sense of Feed Additives for Gut Health



### Devan Paulus Compart

*Technical Services Manager | Papillon Agricultural Company*

Devan Paulus Compart has an extensive background in animal nutrition and experience in research and development. Her expertise is in the use of feed additives, such as prebiotics, probiotics and plant compounds, to support ruminant health and performance, and sustainable livestock production.

Currently, Paulus Compart works as a technical services manager with Papillon Agricultural Company, where she supports nutritionists and producers to improve cow health, productivity and efficiency - using on-farm support tools and comprehensive feed additive programs. Previously, she served as Evonik's North America ruminant business development manager and ruminant feed additive research and development manager, and technical service lead at Land O'Lakes.

Paulus Compart received her bachelor's degree in animal science from the University of California, Davis. Her master's degree and PhD are both in animal science from the University of Minnesota. She is the co-founder and leader of Ag Women Grow, a program that supports career growth for women in the agriculture industry.

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### Session Description

This discussion will review the symptoms of gut dysbiosis and how additives can be used as a tool to overcome those challenges, and finally help producers and nutritionists develop an additive strategy that will be most effective and economical for every individual herd. Key learning objectives include:

- Identify gut health challenges in your herd and learn how gut challenges impact cow health and productivity
- Understand the primary categories of feed additives and how they work in the cow to solve gut health challenges
- Learn how to build a customized feed additive program for your herd that is effective, easy and economical

## Calcium Magnesium Carbonates: The Swiss Army Knife of Feed Ingredients



### Clayton Stoffel

*Technical Services Manager | Papillon Agricultural Company*

Clayton Stoffel serves as a technical services manager for Papillon Agricultural Company and has been with the company for almost 10 years. His focus is primarily on blended proteins and MIN-AD. This focus involves overseeing formulation and quality control of Papillon's line of bypass protein blends as well as research and development on both product lines. He also provides expertise in the field related to ration modeling and has developed several on-farm efficiency and management audit programs targeted at helping producers and nutritionists benchmark and improve their operations. Stoffel grew up on a 150-cow dairy in southeast Wisconsin and holds a master's degree in dairy nutrition from the University of Wisconsin-Madison.

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### Session Description

Several sources of magnesium are commonly used in dairy rations and we often take the quality of macro mineral sources like these for granted. However, they should not be treated as commodities. This talk will review sources of magnesium available to nutritionists and discuss the opportunities and challenges surrounding each source, especially when it comes to quality and bioavailability. Special emphasis will be placed on calcium magnesium carbonates, a unique magnesium source that also provides other benefits. This discussion will include recent research on the intestinal health implications of feeding calcium magnesium carbonates, especially during challenges like heat stress and transition. Key objectives for this presentation include:

- Learn about different sources of magnesium available and the challenges and benefits of each
- Identify methods for comparing magnesium source quality
- Understand what makes calcium magnesium carbonates unique in the magnesium supplement space
- Learn about the most recent research related to gut health and calcium magnesium carbonates

# The Role of Biofilm in Bacterial Infections and Strategies to Mitigate It



## Chris Chase

*Veterinary and Biomedical Science Professor | South Dakota State University*

Chris Chase is a professor of veterinary and biomedical science at South Dakota State University (SDSU) in Brookings, S.D. He received his Doctor of Veterinary Medicine degree from Iowa State University and master's degree and PhD from the University of Wisconsin-Madison, and has been at SDSU since 1992. Chase is the past president of the American College of Veterinary Microbiology and the Conference of Research Workers in Animal Disease. In 1994, he co-founded RTI (Research, Technology Innovation) LLC, an animal health contract research organization that does studies in poultry, swine and cattle, and is the organization's chief scientific officer.

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## Session Description

This seminar will present a new technology to prevent and deal with old problems related to animal health. Bacteria are smart microorganisms capable of communicating, producing defenses and hiding from the immune system. In addition, it is a fact that the current tools we have in the market are not as efficient as in the past.

AHV developed a technology to interfere in bacteria communication, remove the defenses (biofilm inhibition and breakdown) and expose bacteria to the immune system. Without a protective layer, the bacteria are completely susceptible and the cow's immune system can get rid of them.

During this lecture, attendees will get an overview about how AHV technology works, along with lab, field and peer-review results - showing that we have a new solution and a better tool to prevent and react to bacterial infections. There is a new way to deal with animal health problems that leaves milk in the tank and leads to longevity and herd health from calves through multiple lactations.

## Mythbuster: The Truth About Lely Dairy Automation

### Session Description

You may have heard one of the many myths about dairy automation. Join us as we debunk the biggest ones together in this fact-filled session. You'll hear from the Lely North America team as they cover twelve common myths about dairy robots and switching to automation from traditional equipment. Topics will include investment costs, labor savings, technology requirements, reliability, milk quality, site construction, herd size restrictions, adjustment period, cull rates and more! This is a session you won't want to miss.

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# BREAKOUT SESSIONS

## Using Technology to Make Management Changes



### Sarah Anderson

*Midwest Monitoring Success Manager | Merck Animal Health*

Sarah Anderson is the Midwest monitoring success manager for Merck Animal Health. Anderson was first introduced to the SenseHub monitoring technology when she worked at her home farm of 1,000 cows in Lancaster, Wis., from 2010-2016. She then supported the SenseHub monitoring technology at Semex, where the technology is known as AI24. She joined Merck in March 2020 where she works directly with customers post-sale to help them ensure success with their monitoring system – from adjusting protocols to training staff to maximizing return on investment.

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### Session Description

In this breakout session, Sarah Anderson will discuss how technology can assist in making management changes from calf to cow. You will learn about the first-of-its-kind calf monitoring – from real dairy data and experiences. Additionally, Anderson will cover how you can assess cow comfort and heat abatement, treatment and diagnostic protocols, and compliance with the use of technology. After participating in this session, attendees should be able to:

- Understand how to use heat stress data to identify areas of opportunity on their dairy
- Assess their current youngstock program and understand how technology could help reduce labor, increase efficiencies and improve overall calf health
- Understand how implementing a sort gate could increase efficiency, cow comfort and compliance

## Improving Dairy Profitability by Focusing on Forage Quality and Soil Biology



### Evan Hansen

*Regional Sales Agronomist | Quality Liquid Feeds, Inc.*

Evan Hansen has served as QLF's regional sales agronomist in northwest Iowa and southwest Minnesota since 2021. His cattle experience and recognition of the prevalent livestock presence within his region have driven him to develop agronomic strategies specifically for livestock producers. Hansen has enjoyed aiding producers in growing higher quality feed and being able to help them utilize manure more efficiently in building fertility for the future.



### Kai Yuan

*Dairy Senior Scientist and Technical Advisor | Quality Liquid Feeds, Inc.*

Kai Yuan serves as the senior technical advisor and senior scientist of Quality Liquid Feeds Inc. In 2009, Yuan received his veterinary medicine degree with distinction from Yangzhou University in China, a master's degree in dairy science from the University of Wisconsin-Madison in 2011, and a PhD in dairy nutritional physiology from Kansas State University in 2014. He published more than 15 peer-reviewed journal articles and won numerous awards in agriculture service and leadership. With his current position, he provides key research and technical support to dairy farm and nutrition management throughout the nation.

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### Session Description

This talk will address the top key points on maximizing milk component yields and profitability - from the ground up. These points include high forage digestibility, excellent feeding management and good cow health. Enhancing forage quality and utilization in total mixed rations helps improve feed efficiency and profitability. This talk will also explore a few fundamental factors that lead to improved forage yield and quality, such as soil biology, plant health and nutrient recycling. In addition, the presenters will discuss the benefits of molasses-based liquid carbon fertilizers for enhancing the yield, digestibility and consistency of forage plants.

The audience will learn the top key points contributing to milk components and profitability, including highly digestible forages, excellent feeding management and good cow health. Also, the audience will learn about the fundamental factors that enhance forage quality, including soil biology, healthy plants and the effectiveness of molasses carbon-based liquid fertilizers.

## BREAKOUT SESSIONS

### Managing Your Feed Center to Maximize Efficiency and Consistency While Reducing Shrink

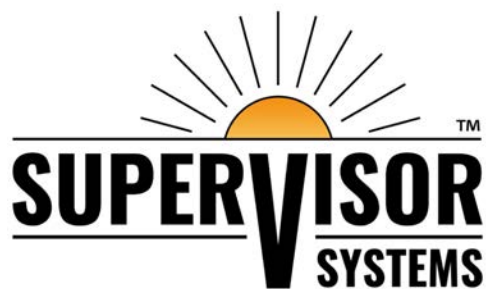


#### Keith Sather

*President | Supervisor Systems/KS Dairy Consulting*

Keith Sather is the owner and creator of KS Dairy Consulting and Supervisor Systems. Sather is a 1984 graduate of the University of Wisconsin-River Falls, where he majored in animal science. Following nine years in the feed industry, he founded KS Dairy Consulting, with a focus on dairy nutrition and responsible management practices. Shortly after he formed Supervisor Systems, he created Feed Supervisor, Hoof Supervisor and Truck Supervisor. Sather works with dairy producers, consultants and hoof trimmers throughout the world, with a commitment to excellence and innovation.

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#### Session Description

In this instructional session, the presenter will discuss the impact of management practices and feed center design on shrink and efficiency. Strategies will be taught by demonstrating the pros and cons of storage options and operation control through truck scale monitoring procedures. Management approaches, such as input and outputs of cost, quality control measures and precision feeding to maximize efficiency and consistency while reducing shrink, will be discussed. The session's key learning objectives include:

- Understand management practices to reduce shrink
- Compare shrink storage (e.g., flat storage vs. bins and enclosed facilities)
- Management techniques for feed center quality control
- Strategies to utilize a truck scale to efficiently manage inventories and control shrink

## Not All Carbohydrates are the Same. How can More Dietary Sugar Improve Both Rumen and Cow Performance?



### Mary Beth de Ondarza

*Dairy Nutrition Consultant | Paradox Nutrition, LLC*

Mary Beth de Ondarza grew up on an 80-cow registered Holstein dairy farm in southern New York. She received her bachelor's degree from Delaware Valley College and master's degree from Cornell University. In 1994, she received her PhD from Michigan State University. She then worked as a nutritionist in the feed industry in the Northeast. Her primary responsibilities were to provide on-farm nutritional consultation, educate sales staff and formulate and test new products. In 2003, de Ondarza became sole proprietor of a nutritional consultation business for the dairy feed industry, Paradox Nutrition, LLC. She now conducts studies on commercial dairy farms for feed ingredient supply companies. Also, de Ondarza does computer modeling and literature review projects, and continues to do some on-farm nutritional consultation.

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### Session Description

Since our dairy cows are ruminants, we want to maximize rumen microbial protein yield and increase carbohydrate digestion without creating excessive rumen acidity. High starch digestibility is desired but a combination of rapidly and slowly available starches can help with acidosis control and improve milk fat production. Attention must be paid to total dietary starch, the speed of starch digestion, dietary fiber and fiber length.

In recent years, we've also learned about the benefits of sugar. Without supplemental sugars, most U.S. high-production rations contain 1.5 to 3% sugar. However, it is recommended that rations contain 6 to 8% sugar by specifically adding sugars to the diet. Sugars are digested and used by the rumen microbes very rapidly. Because of this speed, adding sugars to the diet almost always reduces the amount of ammonia in the rumen, indicating that sugars help the rumen microbes capture and use more dietary nitrogen for microbial protein synthesis. Because sugars ferment differently from starches, studies have shown that sugars help to decrease rumen acidity, improve fiber digestion and raise both percentage and yield of milk fat to positively impact overall performance.

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*see pages 82 - 85*



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# The Good Neighbor: Premise Pest Control for Dairy Producers



## Christy Jones

*Technical Service Data Specialist / MGK*

Christy Jones is a board-certified entomologist with more than a decade's experience in entomological research in both lab and field settings. In her role as the technical data support specialist at MGK, she is responsible for generating sales and marketing data for the company's branded products. Previously, Jones supported MGK's research and development team as an entomologist. She has a master's degree in entomology from the University of Florida and received her bachelor's degree in biology from Winthrop University.

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## Session Description

House and stable flies are widely encountered pests for those in dairy production. With potential for exponential growth when left uncontrolled, flies can cause direct and indirect damage to animals and their potential for milk production. The key to effective insect control is integrated pest management (IPM). IPM is the combination of several insect control measures to combat a pest population, including sanitation, physical barriers, cultural control methods and insecticides. Balancing these best practices with a general understanding of insecticides can improve overall and long-term control. Often overlooked by pest control applicators, premise applications are necessary to control house flies. Get tips and tricks for effective premise control and reduce the number of flies outside your facilities, providing relief to both your animals and neighbors. Session learning objectives include:

- Gain a better understanding of the flies that plague dairy facilities
- Learn how to use flies' biology to control them
- Grasp a short list of the tools available for fly control in dairies

## ALFALFA: New & Improved! “AA Series”



### Jeff Jackson

*ForageFanAddict, CROPLAN Forage Specialist*

Jeff Jackson grew up on a small family farm in northwest Iowa and ventured to South Dakota State University to pursue a bachelor's degree in animal science and a master's degree in plant science. He spent some time in ag retail in the area before joining the CROPLAN team as a Seed DSM in 2005. Growth of the dairy industry in the I-29 corridor led to his current position as a forage specialist in 2010. The last 13 years he has spent with growers helping them in technical support to grow the biggest pile of high-quality feed that they can. Product management for the United States of forage sorghums, grain sorghum and triticale have also found their way to his plate as he continues to help find ways to grow more crops, more efficiently on the same acre for #COWCHOW.

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### Session Description

With the shift in soil pests and plant diseases in our agricultural atmosphere, what are we doing to keep up? Let's take a deep dive below the soil surface and see what we are finding and what we are doing to keep alfalfa production relevant to growers. The new “AA Series” of varieties are paving the way to better stand establishment, better yields, better persistence and ultimately better ROI for growers.

See what has been changing, how it has impacted, and what is being/has been done to help with these changes and shifts to make our alfalfa production more consistent, predictable and profitable.



# SAVE THE DATE

## Revolutionizing Reproductive Management: A Journey from Ultrasound to Sample-based Pregnancy Testing



### Randy Gross

*Owner / Ash Grove Dairy LLP*

Randy Gross is managing partner and general manager of Ash Grove Dairy, LLP, located near Lake Benton, Minn. A native of Washington State, Gross grew up in the dairy business and was involved in 4-H and Junior Holstein Association. He graduated from Washington State University with a degree in agricultural economics and began his career in dairy, first with an artificial insemination company in California's Central Valley, then in Wisconsin as a herd manager before settling in South Dakota to own and manage a dairy.



### Darren Mueller

*Manager / Prairieland Dairy*

Darren Mueller grew up on an 80-cow dairy farm in central Kansas owned by his dad and uncle, who sold the cows in 2009. He graduated from Kansas State University, receiving a degree in animal science. During college, Mueller participated in Dairy Challenge and was on the dairy judging team. He has worked at Ohlde Family Farms for the last eight years. He spent the first six years as herd manager of Ohlde Dairy in Linn, Kan. Then, he moved to Firth, Neb., to manage Prairieland Dairy where they milk 2,000 Holsteins and have a large composting operation.

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# IDEXX

### Session Description

Join us for an insightful session as the panelists discuss the benefits of sample-based pregnancy testing in reproductive management. In this session, panelists will share the motivations behind this strategic change and the seamless integration of the sample collection process into their weekly routine. Discover firsthand the impact on time management, labor efficiency and improved relationship with their veterinarians. Attending this session, will help you:

- Understand the benefits of what sample-based testing can offer
- Discover how the workflow on your dairy operation may change when integrating with sample-based pregnancy testing
- Uncover how time with your veterinarian can improve through some features of sample-based pregnancy testing

# Integrated Pest Management of Flies in Dairies



## Danny McDonald

*Tech Services Manager - Animal Health / Control Solutions Inc.*

For the past 17 years, Danny McDonald has studied the ecology and management of invasive insect pests and their impact on agriculture and urban ecosystems. During this time, he spent five years as a consultant for the poultry and swine industries at a major distributor of animal health products. McDonald always had a natural curiosity for science, particularly plant and insect biology and biodiversity. McDonald received his bachelor's degree in horticulture and master's degree in agriculture from Tarleton State University. His PhD in entomology was earned from Texas A&M University.

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## Session Description

Biting and nuisance flies in dairies can cause a significant impact on production and relationships with neighbors. It is important to utilize an integrated pest management approach that uses a variety of strategies in a way that minimizes overall economic, health and environmental risks. These include cultural and sanitation practices, mechanical and biological control, and the strategic use of insecticides. Managing fly problems at the source (manure) with insect growth regulators is the priority. Then, farm managers should expand their insecticide program with pour-ons, ear tags, residual surface spraying and/or space spraying – depending on the fly species. These concepts will be covered to equip you with necessary fly control solutions. After listening to McDonald, attendees will be able to answer:

- Why should you worry about fly populations?
- Which fly species are most concerning to confined animals and pastured animals?
- What are four strategies for fly management with insecticides?

## Taking Advantage of Triticale Flexibility



### Racey Padilla

*Trical Superior Forage*

Racey Padilla is the head plant breeder for Trical focusing on the development and improvement of small grains forages with our predominant focus on triticale.

### Session Description

This presentation will cover in detail all of the different forage uses triticale has to offer. How we help growers decide which forage components are more valuable to them and how to take advantage and manage each.

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## Using Actionable Insights to Let Cows be Cows



### Matt Heisner

*U.S. Business & Product Application Expert / Nedap*

Matt Heisner's lifetime of experience in the dairy industry has brought a unique and energetic perspective to Nedap's U.S. dairy team for the last couple of years. Coming from the dairy equipment space where he spent time in front line support to multi-divisional management, his experience is helping guide Nedap's efforts in customer support, channel support and development, along with future business development and product placement.

### Session Description

Every time you turn around there is a technology breakthrough being blasted across the headlines. In the dairy industry, we are fortunate benefactors of some really impactful innovations. This discussion will dive into the challenge of harnessing the data being captured and translating that into action that makes sense for the farm and the cows. Nedap will host some key players in the dairy tech space for a journey through personal experience and a discovery about what the possibilities can be with animal monitoring sensors and herd management technology. During this session, learn about:

- How and why to apply animal monitoring technology on your herd
- What data can be captured and how protocols can be tweaked to maximize the investment
- A mindset shift to "let cows be cows"

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## Dairy Calf & Heifer Association: Growing your dairy's future



**David Casper**

*DCHA Secretary/Treasurer*

### Session Description

The Dairy Calf & Heifer Association is the only organization focused on producers and managers raising dairy calves, heifers, and beef crosses. Learn how DCHA can help your milking herd or feedyard cattle reach their genetic potential through the DCHA Gold Standards.

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## Comprenda cómo los procedimientos simples de ordeño pueden mejorar la eficiencia de las vacas y el control de la mastitis



### Tiago Tomazi

*Dairy Technical Services Veterinarian | Merck Animal Health*

Tiago Tomazi is currently a dairy technical services veterinarian at Merck Animal Health with expertise in mastitis epidemiology and pathophysiology, as well as preventing and controlling infectious diseases in dairy cows. He earned his Doctor of Veterinary Medicine degree from the University of Passo Fundo in Brazil, and completed his master's degree and PhD in animal nutrition and production at the University of São Paulo, Brazil. Part of his PhD and postdoctoral program was done at Cornell University, Ithaca, N.Y.

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### Session Description

Understand how simple milking procedures can improve cow efficiency and mastitis control. In this presentation, we will cover basic concepts about the epidemiology and pathophysiology of different forms of mastitis in dairy herds. We will also discuss WHY each milking procedure must be performed properly and the importance of these steps for cow and employee efficiency, and for controlling mastitis in dairy cows. Session attendees will:

- Understand the differences among clinical, subclinical, environmental and contagious mastitis
- Learn what somatic cells are and their importance for udder health
- Learn how to perform each milking procedure properly
- Understand how milking procedures impact parlor efficiency and mastitis control

## Leadership for Hispanic Managers



### Jorge Delgado

*Training, Talent Development and Retention Program  
for Dairy Workers Leader | Alltech*

Jorge Delgado leads the Alltech Training, Talent Development and Retention Program as part of the Alltech On-Farm Support program. He previously served as a dairy specialist and uses his expertise to help dairy producers with employee management practices, herd health, milk quality, calf management, protocol customization and animal welfare. Originally from Ecuador, Delgado comes from a family of dairy farmers. He received his bachelor's degree in agriculture and dairy science from EARTH University in Costa Rica. Afterward, he returned to Ecuador, where he worked in the dairy industry to represent a genetics company through consulting, sales and training. In 2002, Delgado moved to the United States, where he worked 10 years on multiple dairies as a herd manager. He has also worked with Elanco's dairy training program, focusing on empowering dairy workers.

Jorge Delgado, Experto en Desarrollo de Talento de Alltech, explicará cómo crear y utilizar las herramientas necesarias para capacitar y retener a los empleados en su lechería. Algunas de estas herramientas incluirán carteles de capacitación, protocolos personalizados, el uso de animaciones y videos que son fáciles de usar y motivan a sus trabajadores a aprender.

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### Session Description

Leadership is a skill that involves someone guiding others to achieve target goals and encouraging people on a team to act as a united group in their efforts. Many leadership models theorize about the best way to lead others. Each leadership model has its own ideas about what makes a leader most effective in various situations. Leadership models can be specific to a particular type of workplace, industry or team goal.

## Practical Tips for Proper Newborn Feeding and Colostrum Management

Consejos prácticos para una alimentación adecuada del recién nacido y un manejo adecuado del calostro



### Cristian Sosa

*Lead Trainer and Onboarding Specialist | Golden Calf Company*

Cristian Sosa is the lead trainer and onboarding specialist at Golden Calf Company. He grew up in a bilingual family in eastern Wisconsin and is a graduate of the University of Wisconsin-River Falls, where he received his bachelor's degree in dairy science. Before joining Golden Calf Company, Sosa gained extensive on-farm experience. In his current role, Sosa provides onboarding for new customers and recurring maternity training for existing customers.

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Cristian Sosa es el entrenador principal y especialista en incorporación de Golden Calf Company. Sosa creció en una familia bilingüe en el este de Wisconsin. Se graduó de la Universidad de Wisconsin-River Falls, donde recibió su licenciatura en Ciencias Lácteas. Antes de unirse a Golden Calf Company, he tenía una amplia experiencia en granjas. En su puesto actual, Sosa ofrece integración para nuevos clientes y capacitación recurrente sobre maternidad para clientes existentes.

### Session Description

This session is intended for workers in maternity areas and will cover proper newborn tube feeding steps as well as colostrum handling protocols. Colostrum management standards will be explained in detail as well as the why and calf physiology. Also, Sosa will share the newest industry trends. Key topics include:

- Maternity protocols
- Proper tube feeding steps
- Maternity benchmarks

### Descripción de la Sesión

Consejos prácticos para una correcta alimentación del recién nacido y el manejo del calostro Esta sesión está dirigida a trabajadores de maternidad y cubrirá los pasos correctos para usar la sonda para alimentar becerros recién nacidos, así como los protocolos de manejo del calostro. Se explicarán en detalle los estándares de manejo del calostro, así como el por qué y la fisiología de los terneros. Sosa también compartirá las últimas tendencias de la industria. Objetivos de aprendizaje:

- Protocolos de maternidad
- Pasos correctos para usar la sonda
- Puntos de referencia de maternidad



## Rethinking Clinical Mastitis Therapy Repensar el tratamiento clínico de la mastitis



### Daniela Bruno

*Dairy Advisor | University of California Cooperative Extension*

Daniela Bruno is a University of California Cooperative Extension dairy advisor. She received her Doctor of Veterinary Medicine degree from the School of Veterinary Medicine at Universidade Federal de Minas Gerais, Brazil, and her PhD from the University of California, Davis. Throughout her professional and academic career, she carried out work related to animal health and welfare, food safety, milk quality and mastitis, wastewater and dairy systems management. She has more than 25 years of experience working with bovine mastitis and her research interests include animal health and dairy production's impact on the environment.

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### Session Description

The objective of this workshop is to discuss bovine mastitis and how it affects animal welfare, milk quality and milk production. Learn the difference between mild, moderate and severe mastitis cases, and how to identify infections. Learn the basics of mastitis treatment protocols and standard operating procedures, emphasizing the importance of good record keeping and steps for implementing a mastitis control plan.

### Repensando el tratamiento clínico de la mastitis

El objetivo de este taller es discutir la mastitis bovina y cómo afecta el bienestar animal, la calidad de la leche y la producción de leche. Aprenda la diferencia entre los casos de mastitis leve, moderada y grave y cómo identificar las infecciones. Aprenda los conceptos básicos de los protocolos de tratamiento de la mastitis y los procedimientos operativos estándar, enfatizando la importancia de un buen mantenimiento de registros y los pasos para implementar un plan de control de la mastitis.

# SESIONES DE TRABAJO EN ESPANOL

## Optimizing Dairy Farm Health: Keys to Improve Dry-off Period and Colostrum Management

## Optimización de la salud de las granjas lecheras: Claves para mejorar el período de secado y el manejo del calostro



### Maristela Rovai

*Associate Professor and Extension Dairy Specialist | South Dakota State University*

Maristela Rovai is a veterinarian from Brazil with a master's degree and PhD in veterinary medicine with emphasis in animal science (UAB-Spain). Currently, she is an associate professor and extension dairy specialist in the department of dairy and food science at the South Dakota State University in Brookings, S.D. Rovai has a 30% teaching and research appointment (physiology of lactation and Dairy Challenge) and 70% extension. Her main responsibilities are to develop extension programs for improvement of milk quality and assist dairy producers and industry personnel on workforce development and best production practices.



### Noelia Silva del Rio

*Dairy Herd Health Specialist | University of California-Davis*

Noelia Silva del Rio is a veterinarian from Spain with a PhD from the University of Wisconsin-Madison. She serves as the dairy herd health specialist at the University of California-Davis School of Veterinary Medicine. Her research interests encompass a wide range of topics, including transition cow and calf health, dairy herd sustainability and animal welfare. She is proficient in developing and implementing curriculum for dairy workers and designing visual-guided processes.

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UNIVERSITY EXTENSION**

## Session Description

This presentation highlights the significant role of properly managing the dry-off period and calving to guarantee the production of a sufficient amount of top-quality colostrum, reduce the chances of mastitis and maximize milk yield in the following lactation period. Throughout the presentation, the presenters will showcase points using compelling case studies that demonstrate the important consequences of effective management. The presentation is tailored for dairy workers and aims to deliver essential insights to enhance their daily operations and tasks. Key learning objectives include:

- Identify critical practices at dry-off and calving
- Ensure adequate colostrum quality and quantity
- Optimize milk yield and minimize risk of mastitis during the next lactation

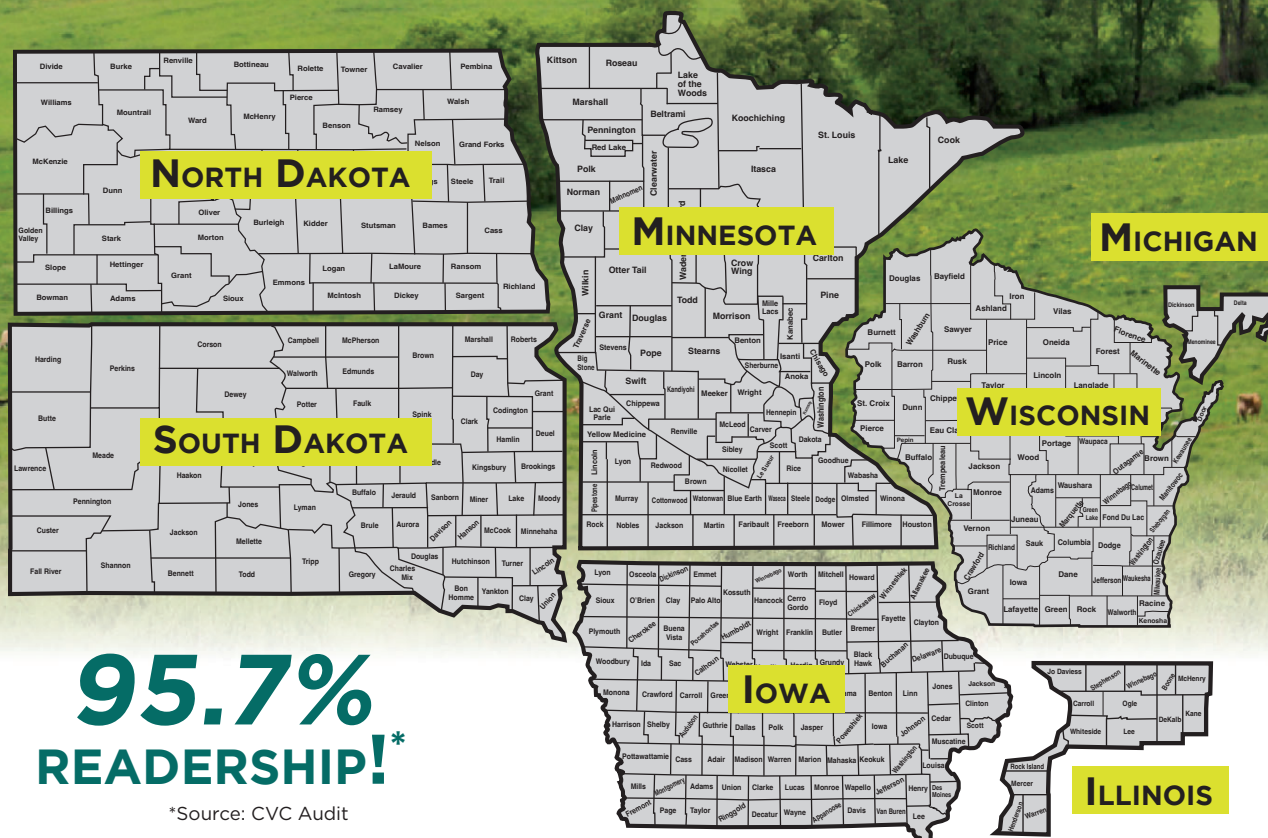
## Descripción De La Sesión

Esta presentación destaca el importante papel que desempeña el manejo adecuado del período de secado y el parto, para garantizar la producción de una cantidad suficiente de calostro de alta calidad, reducir las posibilidades de mastitis y maximizar la producción de leche en el siguiente período de lactancia. A lo largo de la presentación, mostraremos nuestros puntos utilizando estudios de casos convincentes que demuestran las importantes consecuencias de un buen manejo. La presentación está diseñada para los trabajadores de la industria láctea y tiene como objetivo brindar información esencial para mejorar sus operaciones y tareas diarias. Objetivos de aprendizaje:

- Identificar prácticas críticas en el secado y parto
- Asegurar que la calidad y cantidad de calostro producida es adecuada
- Optimizar la producción de leche y minimizar el riesgo de mastitis durante la siguiente lactancia



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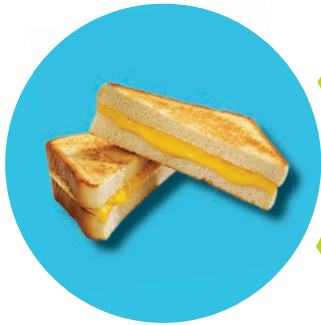
522 Sinclair Lewis Avenue • Sauk Centre, MN 56378  
Phone: 320-352-6303 • Fax: 320-352-5647

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**elizabeth@4dagfashion.com**

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Come to the 4-D AG Fashion booth for several styles of purses, travel bags and backpacks.



## YOUTH BIBS

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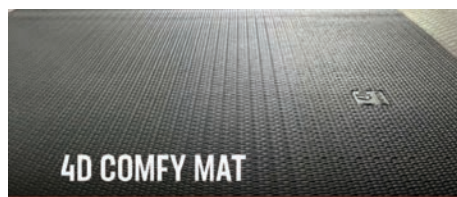
**806-656-1646**

**elizabeth@4dagfashion.com**

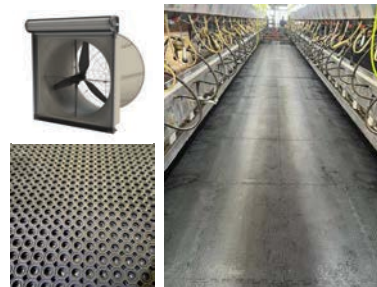
**<https://4dagfashion.com>**

4-D AG Fashion added youth bibs – available in purple and navy blue – to its product line. Keep an eye out for 4-D AG Fashion's new line of veterinarian clothing, including cotton overalls. To enhance worker safety, fabric coveralls with reflectors are now available. Easy slip on and off, these coveralls will keep you warm and clean. Additionally, purple calf jackets are now available. Bibs and repro sleeves are now available in green. Plus, 4-D AG Fashion offers rag bags for paper towels.

In the mood for a BBQ? 4-D AG Fashion introduced high-quality, rustic canvas BBQ aprons. Like many of 4-D AG Fashion's products, customers requested this new item.



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**4-D AG World**

**580-980-1893**

**Bram@4dagworld.com**

**<https://4dagworld.com>**

4-D AG World offers comfy mats for cows. The 1.5" thick rubber rolls are available in several lengths. With an integrated slope, the mats stay dry. A cushion pattern is standard on the bottom side. The mats are DLG tested and easy to install.



## BEEF INFOCUS

**ABS Global**  
**608-846-3721**  
**ABS.US.Cust.Svc@genusplc.com**  
**www.absglobal.com**

Beef InFocus is the premier beef-on-dairy program designed specifically for dairy producers looking to make the best beef-cross calves. Beef InFocus sires are selected for growth, feed intake and carcass quality, but evaluated for performance on dairy before entering the ABS Global lineup. Every sire ABS offers has been proven to perform.



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**paul@adaent.net**  
**https://adaent.net**

The new Dura Bilt Double & Triple calf pen is available with individual stalls that convert to open pens. Divider panels are removed – converting individual stalls to open pens. These stalls and pens provide durability, comfort and flexible configuration. Pens are raised and vented, keeping calves dry and healthy. With dry calves, the need for bedding is greatly reduced or eliminated, which saves bedding and labor costs.



## ECO-FRIENDLY HOOF BLOCK

**Bohning Company Ltd.**  
**231-229-4247**  
**agraff@bohning.com**  
**https://bohningag.com**

The Bohning Company introduced the Biodegradable Bohning Hoof Block in 2023. This next generation block delivers an eco-friendly solution to a common dairy problem. Manufactured exclusively in northern Michigan using a U.S.-sourced, plant-based material, the biodegradable blocks provide optimal wound healing time while also avoiding damage to manure handling systems.

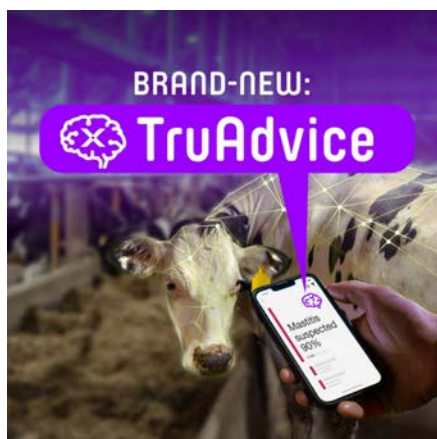
# NEW PRODUCTS!



## COLLAB LIGHT SYSTEM

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**800-522-8874**  
**sales@kooimaag.com**  
**<https://www.kooimaag.com/collab>**

The Collab Light System allows cutter operators to tell truck drivers when the driver needs to move ahead (speed up) with a green light or move back (slow down) with a red light. Auto mode can be programmed to specific zones, so the lights will turn on and off within the specified zones. Turn rookie drivers into professional drivers. Patent pending.



## TRUADVICE DISEASE INDICATION

**smaXtec Inc.**  
**608-405-1548**  
**info@smaXtec.com**  
**<https://smaXtec.com>**

The TruAdvice technology from smaXtec represents a revolution in early disease indication in dairy cows. Based on extensive knowledge and data collected from hundreds of thousands of cows, TruAdvice not only enables early disease indication, but the precise identification of suspected mastitis cases using artificial intelligence.



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Udder Tech added a longer option for its shoulder guard. It is 12 inches longer on the side and available in green or black, left or right, in size medium or regular (large).

Also new this year is the Udder Tech vet jacket, which is a short-sleeved waterproof jacket with water-resistant zipper. It is great to slip on quickly to use for pulling calves, palpating or breeding.



## REPRODUCTION INSIGHTS

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Reproduction Insights delivers a simpler way to monitor and understand your herd's reproduction data. Bring real-time insights to your fingertips for more accessible and precise reproduction management with Reproduction Insights, available to all DairyComp and MyDC on PULSE users. Gain instant access to your herd's key reproduction metrics through simple, point-and-click controls. Explore heifer and cow data with easy-to-use graphs, tables and filters. Set personalized performance benchmarks to align with your herd's specific goals. Easily collaborate with your team on performance and goals – thanks to readily available insights. Find Reproduction Insights under the INSIGHT tab in VAS PULSE Platform.



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## WHOLE FARM CONSERVATION PLANNING

**Anez Consulting, Inc.**  
**320-235-1970**  
**kami@anezinc.com**  
**[www.anezinc.com](http://www.anezinc.com)**

Kanati Land Management and Anez Consulting Inc. are launching a project to furnish landowners with well-thought-out conservation plans and the potential for financial benefits to ensure their property remains sustainable, while protecting the farm's conservation values. Contact Anez Consulting to learn more about sustainable conservation plans.

## LODGING

There are plenty of lodging options in Sioux Falls. A handy online guide to area hotels is located on the Convention and Visitors Bureau website at [www.visitsiouxfalls.com/places-to-stay/hotels-and-motels](http://www.visitsiouxfalls.com/places-to-stay/hotels-and-motels). The following is a partial list of hotels. However, being listed does not imply availability or an endorsement by the Central Plains Dairy Expo. For more Expo information go to our website.

## VISIT [CentralPlainsDairy.com](http://CentralPlainsDairy.com)

### **Sheraton**

(605) 331-0100  
1211 N. West Ave.  
Sioux Falls, SD 57104

### **Best Western Ramkota Hotel**

(605) 336-0650  
3200 W. Maple St.  
Sioux Falls, SD 57107

### **Ramada Inn & Suites Airport**

(605) 336-1020  
1301 W. Russell St.  
Sioux Falls, SD 57104

### **Quality Inn & Suites**

(605) 336-1900  
5410 N. Granite Ln.  
Sioux Falls, SD 57104

### **Holiday Inn Airport**

(605) 331-2040  
2040 W. Russell St.  
Sioux Falls, SD 57104

### **Holiday Inn City Center**

(605) 339-2000  
100 West 8th St.  
Sioux Falls, SD 57104

### **Guest House Inn and Suites**

(605) 338-6242  
3101 W. Russell  
Sioux Falls, SD 57107

### **Motel 6**

(605) 336-7800  
3009 W. Russell  
Sioux Falls, SD 57107

### **Sleep Inn**

(605) 339-3992  
1500 N. Kiwanis Ave.  
Sioux Falls, SD 57104

### **Staybridge Suites**

(605) 361-2298  
2502 S. Carolyn Ave.  
Sioux Falls, SD 57106

### **Hampton Inn Sioux Falls North**

(605) 362-1700  
2417 S. Carolyn Ave  
Sioux Falls, SD 57106

### **TownePlace Suites by Marriott North**

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4545 W. Homefield Dr.  
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### **Hampton Inn and Suites SW Sioux Falls**

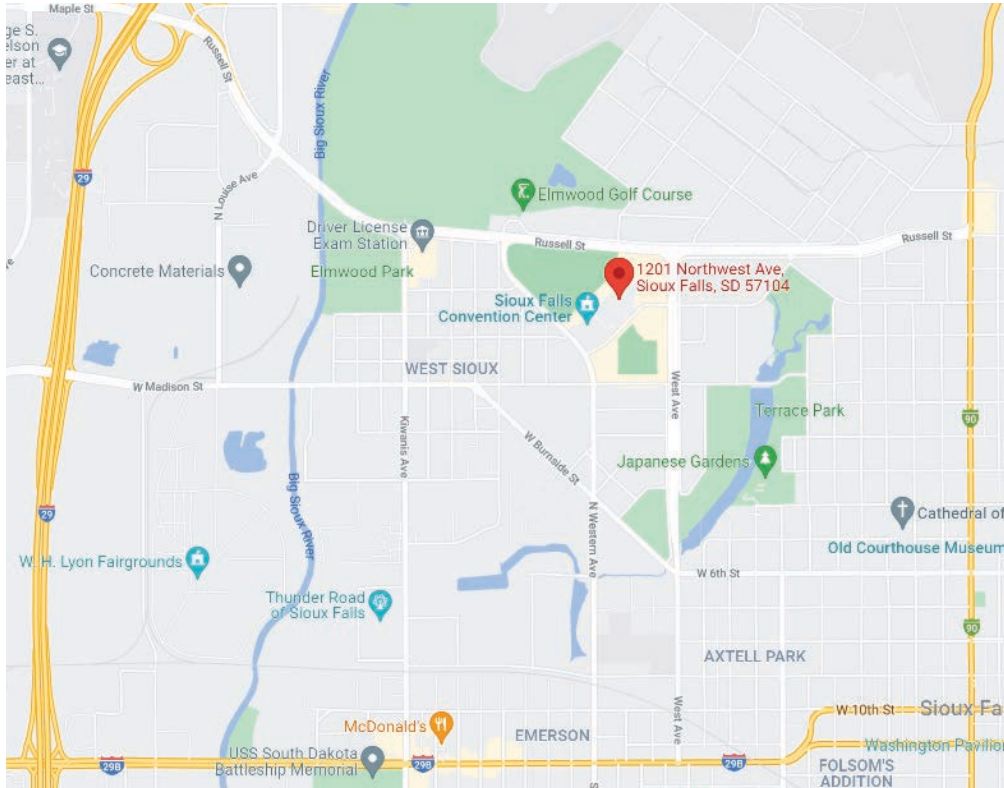
(605) 271-0992  
3701 Avera Dr.  
Sioux Falls, SD 57108

### **Fairfield Airport by Marriott**

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The Central Plains Dairy Expo is easy to reach. It is held in the Denny Sanford Premier Center, which is located in Sioux Falls, S.D., south of the junction of Interstates 90 and 29. Take I-29 Exit 81 east and follow the signs to the Sanford Premier Center. It is 1 ¾ miles east of the interstate. The address is 1201 Northwest Avenue, Sioux Falls, SD.

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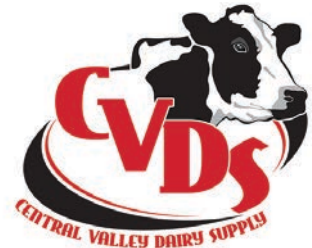
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- Nuhn Industries Ltd.
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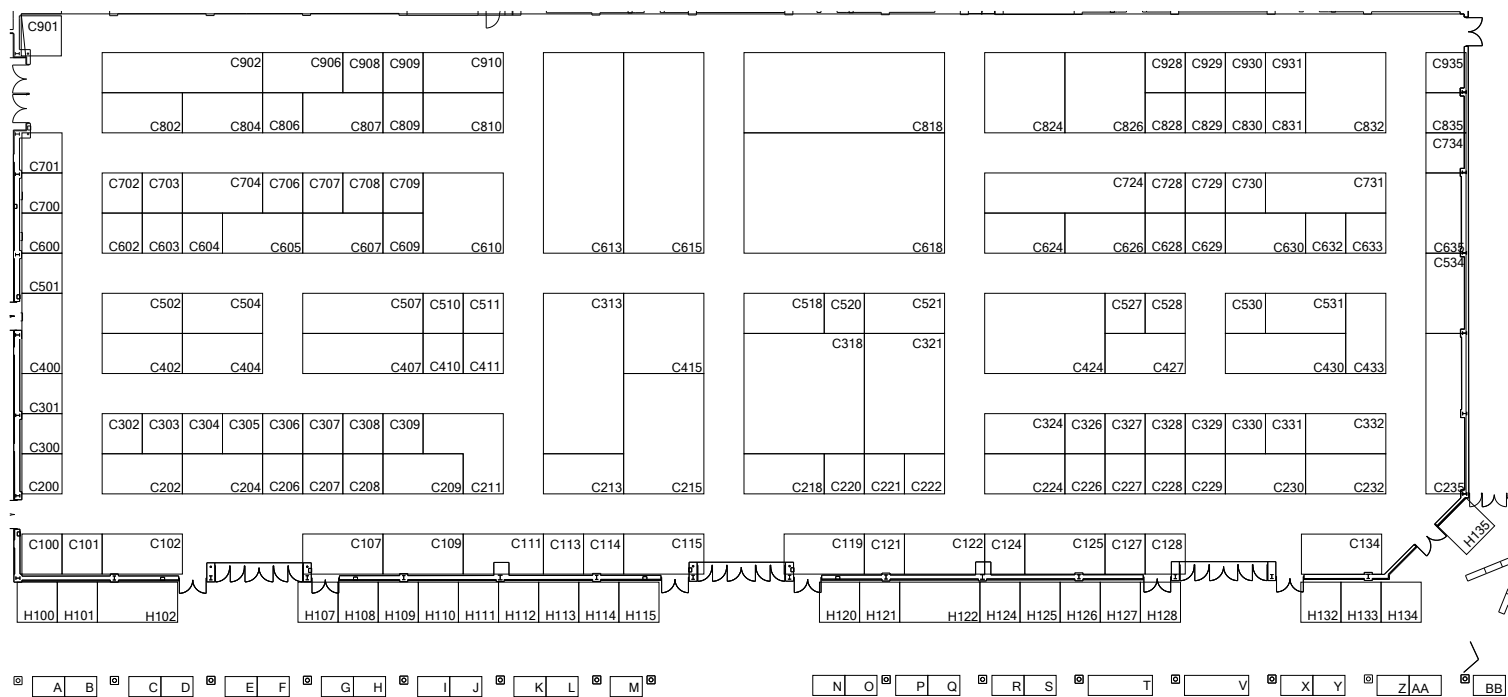
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Agri-Plastics/Agri-Comfort	C724	Central Life Sciences	M
AgriSteel	C301	Central Valley Dairy Supply Inc.	A402
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Agromatic	C704	CIH/Commodity & Ingredient Hedging, LLC	C113
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Albers Dairy Equipment, Inc.	C507	Corteva Agriscience MCS, LLC - Dairyland Seed	A600
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Archer Daniels Midland Company	C632	Dairy Farmers of America	AF102
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Aurora Pharmaceutical	A1109	DBC Ag Products & LIRA GOLD Supplements	A1103
Axiota Animal Health, Inc.	H111	DeHaan, Grabs & Associates, LLC	C835

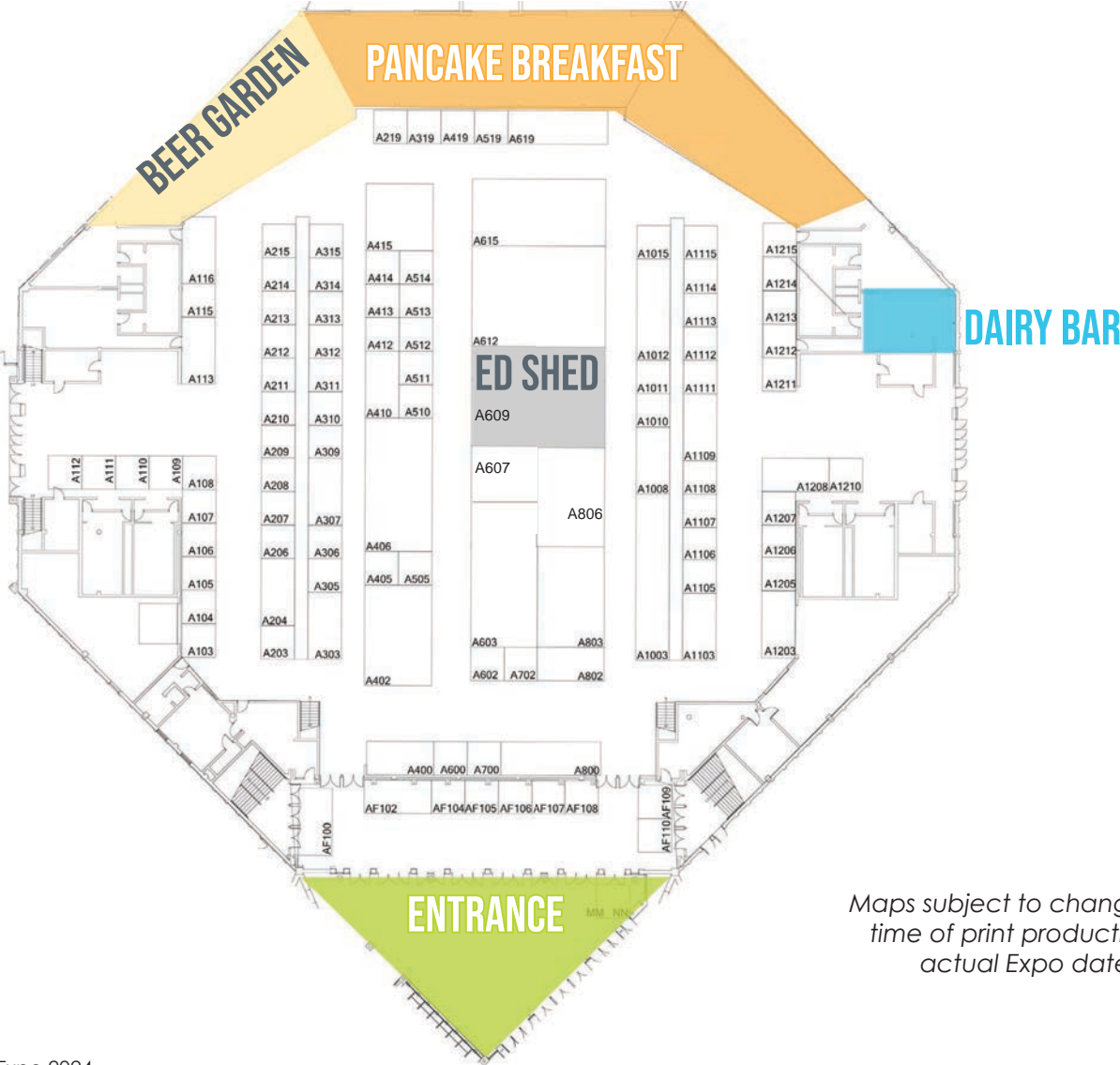
Dellait - Animal Nutrition & Health	C100&B	<b>H</b>	
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<b>F</b>		Johnson Engineering Group, LLC	A1108
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Maas Energy Works	A802	Parnell Living Science	A511
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