

**Thinking about buying a manure treatment technology?**

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It's February and that means World Ag Expo. Many will be seeking cost effective solutions to improve herd or manure management. Complex situations require strategic analysis of information to sift through myriads of alleged "solutions" and find what will work for your dairy. For California dairy producers there are many competing challenges that influence what you may be interested in. Across the state producers are concerned about nitrogen and salt management and capitalizing on carbon emissions reductions opportunities.

Ask yourself AND others questions and listen to answers. Filter answers based on their quality and reliability. The gold standard for information is independent third-party verification of what a product does. Often University work accomplishes this when done independently. Alternatively, a third-party consultant can do this. Also valuable is when you talk with a producer who has the technology.

Why are you looking for a change? Identify what you want to modify and why. As an example, I want to modify manure streams to export nitrogen from the farm. In this scenario, your focus is on nitrogen management. As you evaluate your options, be sure to answer the question will this improve my nitrogen management? If your answer is not YES, you haven't accomplished your task.

Discussions with your nutrient management specialist, environmental consultant and dairy management team are important. Together you can evaluate your resource management needs and your regulatory obligations for your nitrogen zone implementation plan, obligations with the San Joaquin Air District, opportunities or needs to reduce methane emissions, and operating under a dairy General Order with the Regional Water Quality Control Board. Factor in future water restrictions through implementation of the Sustainable Groundwater Management Act.

What does it do? Which constituent does this address—nitrogen, salts, methane emissions? Do third party data confirm this from field scale projects, in all seasons and under your climatic conditions?

*Article continues on the next page...*

***Special February Issue***

Technology conversations. ....1  
Western Dairy Management.....2  
Western Dairy Management.....3

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How does it work? What is the theory behind the operation? Do theory and reality overlay or are they very different? Is the mode of action physical, chemical or biological? Each mode of action may have a downstream impact on the utility of the waste stream.

Is it reliable? Does this work consistently, or does it have a track record of breaking down or not operating? When it is working does it do the same level of treatment daily? This is where a candid discussion with another producer is valuable. You may need to adjust what you learn with your climate and updated operational designs of the technology.

Is there a trained technical staff available to troubleshoot or fix should problems arise? Years ago, there was a genset associated with a digester that wasn't manufactured in the US. It took a minimum of 6 weeks to acquire parts (no locally available supply house) and fix breakdowns. Six weeks of downtime for every repair quickly cuts into profits and creates challenges if you're obligated for carbon credits.

As Sgt. Joe Friday said in the 1960s series Dragnet "all we want are the facts, ma'am." It pays to be diligent and get the facts straight. If you've made it this far, a [previous newsletter](#) article "There's a technology do I want it?" is worth rereading. Don't hesitate to reach out if you want to talk science!



## **2025 Western Dairy Management Conference March 31 – April 3 at the Peppermill in Reno**

*Connecting dairy producers and the allied dairy industry*

### **Council on Dairy Cattle Breeding Producer Exchange and Reception**

Monday, March 31 – 1:00 to 6:00 p.m.



### **WDMC Conference Schedule**

Monday, March 31 – Registration 4:30 to 10:00 p.m.

Tuesday, April 1 – 8:00 a.m. to 5:35 p.m.

Wednesday, April 2 – 7:35 a.m. to 5:35 p.m.

Thursday, April 3 – 7:30 a.m. to 12:00 p.m.

Plan to Attend  
**Tuesday's – Platinum Sponsor Pre-conference**  
8:00am - Noon  
Thirty - 30-minute presentations

Scan the QR code or visit [www.wdmc.org](http://www.wdmc.org) to register

**Early Bird Registration – \$425**  
Ends on February 25



<https://wdmc.org/>

*Topics and speakers on the next page...*



**2025 Western Dairy Management Conference**  
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**Speakers and Topics:**

- “Armstrong’s Folly”: The Development of the Saudi Barn and Evaporative Cooling for the Southwest Dairy Industry | **Dr. Robert Collier**
- How Health and Wellness, Product Science, and Technology Will Drive Dairy Innovation and Sales Growth | **DMI panel members - Paul Ziemnisky and Eve Pollet** moderated by **Stan Erwin**
- Understanding How the U.S. Fits Into Global Dairy Developments | **Dr. Torsten Hemme**
- How U.S. Dairy Processing Has Evolved and Where Is It Going? | **Corey Geiger**
- Needle-less Injection Systems for Managing Hormonal Synch Protocols | **Dr. Don Niles**
- Where Will My Workers Come From? | **Dr. Richard Stup**
- Domestic Investments in Dairy, Future Is Still Bright | **Gregg Doud**
- Group Feeding Economics – Milking the Feed Margin | **Dr. Albert DeVries**
- Factors Affecting Heifer Completion Rate and the Impact on Replacement Herd | **Dr. Michael Overton**
- Real-time Measurements, Monitoring Tools and Using Forage in Large Silage Piles | **Dr. Hugo Ramirez**
- Building an Effective Management Team for Your Dairy | **Dr. Greg Bethard**
- Unlock Forage Potential with Precision Chewing Management | **Dr. Richard Grant**
- Feeding for Milk Fat...How Can We Continue to Increase Milk Fat Yields? | **Dr. Adam Lock**
- Equipping Employees with Effective, Humane, and Efficient Cow Handling Techniques | **Dr. Jennifer Van Os**
- Beef on Dairy: From Conception to Harvest | **Dr. Pedro Carvalho**
- Using Genomics to Optimize Breeding Decisions for Beef and Sexed Semen | **Dr. Francisco Peñagaricano**
- Improving Dairy Herd Health Monitoring and Management Using Automated Monitoring Technologies | **Dr. Julio O. Giordano**
- How Will Soybean Production and Biodiesel Impact Protein Nutrition of Dairy Cattle? | **Dr. Paul Kononoff**
- Precision Management of Dairy Calves | **Dr. Melissa Cantor**

University of California Cooperative Extension  
**Golden State Dairy Newsletter**

Merced, Stanislaus & San Joaquin Counties

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A handwritten signature in black ink that reads "Jennifer". The script is fluid and cursive.

Jennifer Heguy, Dairy Advisor

Merced, Stanislaus & San Joaquin Counties

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