



**State of the Science Summit**  
**Feed Strategies to Reduce Enteric Emissions**  
**May 21-22, 2024**

Co-Hosted by the California Department of Food and Agriculture and UC Davis College of Agricultural and Environmental Sciences

**PURPOSE OF THE SUMMIT**

Identify and articulate opportunities for collaboration and research that will help the dairy and beef industries – and all of animal agriculture – meet climate goals.

Provide an overview of the need and opportunities for enteric methane emissions reduction strategies to achieve State, National, and Global methane reduction goals.

**Day 1**

Item	Topic	Speaker(s)	Format	Time
1.	<b>Welcome</b>	Welcome - Virginia Jameson		8:45-9:00 a.m.
2.	<b>Opening</b>	<a href="#">Karen Ross</a> , Secretary, <a href="#">California Department of Food and Agriculture</a>	Presentation	9:00 - 9:20 a.m.
3.	<b>National Perspective on Enteric Methane</b>	<a href="#">Robert Bonnie</a> , Under Secretary for Farm Production and Conservation, United States Department of Agriculture	Presentation	9:20 – 9:40 a.m.
4.	<b>Fireside Chat</b> Moderator: <a href="#">Dean Helene Dillard</a> – UC Davis	Karen Ross, CDFA & Robert Bonnie, USDA	Panel Discussion	9:40 – 10:00 a.m.
5.		<b>Break</b>		10:00- 10:15 a.m.
6.	<b>Pathways to Meeting Global Climate Goals</b>	Dr. Aimable Uwizeye <a href="#">United Nations Food and Agriculture Organization</a>	Presentation	10:15 - 10:40 a.m.
7.	<b>International Perspectives on Livestock Methane</b>  Moderator: Dr. Ermias Kebreab – UC Davis	Dr. Bruno Brasil – Director of Sustainable Production and Irrigation Brazilian Ministry of Agriculture and Livestock  TBD – Animal & Grassland Research and Innovation Program, Teagasc  Dr. John Roche – Chief Science Office, New Zealand Ministry for Primary Industries	Panel Discussion	10:40-11:40 a.m.



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<b>8.</b>	<b>LUNCH - Provided</b>			11:40 – 1:00 p.m.
<b>9.</b>	<b>Breeding and Genetics</b>  <b>Moderator:</b> Hayden Montgomery – Global Methane Hub	Dr. Ann Staiger – Texas A&M University Kingsville Dr. Troy Rowan – University of Tennessee Dr. Francisco Peñagaricano – University of Wisconsin Madison Dr. Paul J. Kononoff - University of Nebraska-Lincoln Dr. Alex Hristov – The Pennsylvania State University	Panel Discussion	1:00 - 2:20 p.m.
<b>10.</b>	<b>Anti-Methane Vaccines</b>	Dr. Paul Wood - Global Methane Hub - Enteric Fermentation Accelerator	Presentation	2:20 - 2:50 p.m.
<b>11.</b>	<b>CRISPR and Rumen Microbiome Engineering</b>	Dr. Matthias Hess – UC Davis	Presentation	2:50 – 3:15 PM
<b>12.</b>	<b>Break</b>			3:15-3:30 p.m.
<b>13.</b>	<b>Feed Additives</b>  <b>Moderator:</b> Charles Brooke – Spark Climate Solutions	Dr. Peter Lund – Aarhus University Dr. Sara Place – Colorado State University, AgNext Dr. Joe McFadden – Cornell University Dr. Alex Hristov – The Pennsylvania State University	Panel Discussion	3:30-4:30 p.m.
<b>14.</b>	<b>Enteric Research and Adoption Opportunities</b>  <b>Moderator:</b> Charles Brooke – Spark Climate Solutions	Dr. Juan Tricarico - Greener Cattle Initiative Hayden Montgomery- Global Methane Hub Dr. Roberta Franco – CDFA Wayne McNee – Chief Executive of Agrizero, New Zealand	Panel Discussion	4:30 – 5:15 p.m.
<b>15.</b>	<b>Reception</b>			5:15 – 6:30 p.m.

## Day 2

Item	Topic	Speaker	Format	Time
16.	<b>Welcome and Intro to Day 2</b>	Dean Helene Dillard, UC Davis <a href="#">College of Agricultural and Environmental Sciences</a>	Presentation	9 - 9:15 a.m.
17.	<b>Reducing emissions in the beef sector</b>	Dr. Frank Mitloehner, UC Davis CLEAR Center	Presentation	9:15 - 9:35 a.m.
18.	<b>Adoption in beef production systems</b>  <b>Moderator:</b> Dr. Samantha Werth – U.S. Roundtable for Sustainable Beef	Dr. Troy Rowan – University of Tennessee Jenna Sarich - Canadian Roundtable for Sustainable Beef Tom Sturgess – Lone Star Farms Nicole Jenkins – Environmental Defense Fund John Beckett – Beef Nutritionist	Panel Discussion	9:35 a.m. to 10:45 a.m.
19.	<b>Break</b>			10:45 - 11:00 a.m.
20.	<b>Getting Products on Dairy Farms</b>  <b>Moderator:</b> Dr. Kelly Nichols – UC Davis	Jed Asmus – Dairy Nutritionist January Innovation Inc. Michael Boccadoro – Dairy Cares Brian Fiscalini – Fiscalini Cheese Dr. Noelia Silva-Del-Rio – UC Davis	Panel Discussion	11:00 – 12:00 pm
21.	<b>Lunch</b>			12:00-1:30 pm
22.	<b>Managed Grazing</b>  <b>Moderator:</b> Dr. Kim Stackhouse-Lawson – Colorado State University, AgNext	Dr. Logan Thompson – Kansas State University Dr. Justin Derner – USDA-ARS Steve Wooten – Betty Canyon Ranch Matthew E. Wilson – West Virginia University	Panel Discussion	1:30-2:30 p.m.
23.	<b>Taking Action in the Supply Chain</b>  <b>Moderator:</b> <a href="#">Vrashabh Kapate</a> – Environmental Defense Fund	Thomas Bauer- IFC/World Bank <a href="#">Meryl Richards</a> – CERES Jim Eckberg - General Mills Hannah Stefenoni - Clover Sonoma	Panel Discussion	2:30-3:30 pm
24.	<b>Break</b>			3:30-3:45 pm
25.	<b>Regulatory Barriers and Updates for Enteric Methane Mitigation</b>	Leah Wilkinson – American Feed Industry Association Dr. Peri Rosenstein - Environmental Defense Fund Deborah Roche – AgriZero	Presentations	3:45-4:45pm (15-minute updates on each)



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26.	<b>Closing Remarks</b>	Christine Birdsong – Under Secretary, <a href="#">California Department of Food and Agriculture</a>	Presentation	4:45 - 5:00 p.m.
27.	<b>No-host reception</b>	Join attendees and organizers at Ruhstaller Farms ( <a href="#">6686 Sievers Rd, Dixon, CA 95620</a> ) for a casual gathering. Food available.		6 p.m.

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