



CALIFORNIA DEPARTMENT OF
FOOD AND AGRICULTURE



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.	Welcome	Welcome - Virginia Jameson		8:45-9:00 a.m.
2.	Opening	Karen Ross , Secretary, California Department of Food and Agriculture	Presentation	9:00 - 9:20 a.m.
3.	National Perspective on Enteric Methane	Robert Bonnie , Under Secretary for Farm Production and Conservation, United States Department of Agriculture	Presentation	9:20 – 9:40 a.m.
4.	Fireside Chat Moderator: Dean Helene Dillard – UC Davis	Karen Ross, CDFA & Robert Bonnie, USDA	Panel Discussion	9:40 – 10:00 a.m.
5.		Break		10:00- 10:15 a.m.
6.	Pathways to Meeting Global Climate Goals	Aimable Uwizeye United Nations Food and Agriculture Organization	Presentation	10:15 - 10:40 a.m.
7.	International Perspectives on Livestock Methane Moderator: Dr. Ermias Kebreab – UC Davis	Bruno Brasil – Director of Sustainable Production and Irrigation Brazilian Ministry of Agriculture and Livestock Laurence Shalloo – Head of the Animal & Grassland Research and Innovation Program – Teagasc	Panel Discussion	10:40-11:40 a.m.
8.	LUNCH - Provided	TBD		11:40 – 1:00 p.m.



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9.	Breeding and Genetics Moderator: 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.
13.	Anti-Methane Vaccines	Dr. Paul Wood - Global Methane Hub - Enteric Fermentation Accelerator	Presentation	2:20 - 2:50 p.m.
14.	CRISPR and Rumen Microbiome Engineering	Dr. Matthias Hess – UC Davis	Presentation	2:50 – 3:15 PM
15.	Break			3:15-3:30 p.m.
16.	Feed Additives Moderator: Dr. Sinead Leahy – AgResearch & The Enteric fermentation Accelerator	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.
17.	Enteric Research and Adoption Opportunities Moderator: 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.
18.	Reception			5:15 – 6:30 p.m.



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Day 2

Item	Topic	Speaker	Format	Time
19.	Welcome and Intro to Day 2	Dean Helene Dillard, UC Davis College of Agricultural and Environmental Sciences	Presentation	9 - 9:15 a.m.
20.	Reducing emissions in the beef sector	Dr. Frank Mitloehner, UC Davis CLEAR Center	Presentation	9:15 - 9:35 a.m.
21.	Adoption in beef production systems Moderator: 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.
22.	Break			10:45 - 11:00 a.m.
23.	Getting Products on Dairy Farms Moderator: Kelly Nichols – UC Davis	Jed Asmus – Dairy Nutritionist January Innovation Inc. Michael Boccadoro – Dairy Cares Brian Fiscalini – Fiscalini Cheese	Panel Discussion	11:00 – 12:00 pm
24.	Lunch			12:00-1:30 pm
25.	Managed Grazing Moderator: 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.
26.	Taking Action in the Supply Chain	Vrashabh Kapate – Environmental Defense Fund Thomas Bauer- IFC/World Bank Meryl Richards – CERES TBD	Panel Discussion	2:30-3:30 pm
27.	Break			3:30-3:45 pm
28.	Regulatory Barriers and Updates for Enteric Methane Mitigation	Leah Wilkinson – American Feed Industry Association Dr. Peri Rosenstein - Environmental Defense Fund Sinead Leahy - AgResearch	Presentations	3:45-4:45pm (15-minute updates on each)
29.	Closing Remarks	Christine Birdsong – Under Secretary, California Department of Food and Agriculture	Presentation	4:45 - 5:00 p.m.