



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 TBD | Panel Discussion | 10:40-11:40 a.m. |
| 8. | LUNCH - Provided | | | 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. |