

## **Program Team: Dairy Production & Food Safety**

### **Attendees**

Jennifer Heguy, Deanne Meyer, Nick Clark, Randi Black, Brooke Latack, Fernanda Ferreira, Heidi Rossow, Daniela Bruno, Betsy Karle, Noelia Silva del Rio, Richard Pereira, Emmanuel Okello, Joy Hollingsworth, Via remote—Tim Hackmann, Anna Denicol, Dennis Halladay (Hoard's West), Denise Mullinax (California Dairy Research Foundation).

### **Meeting objectives**

1. Facilitate interaction and synergistic activities among ANR/AES academics
2. Improve quality of submissions of newsletter articles
3. Develop web based interactive plan for additional information sharing

### **Primary meeting outcomes**

1. Projects identified for synergistic activities include:
  - a. Linking fecal/milk 16s (Maga, Meyer) project to Antimicrobial resistance project (Aly, Okello, Karle)
  - b. By product use on CA dairies- Heguy lead. Contact to collaborate.
  - c. Metritis bacteria survey- Contact Pereira to collaborate- need 10-12 more herds, especially Northern San Joaquin
  - d. Employee Training on antimicrobial stewardship (OSU, Pereira, Silva del Rio, Karle). Consider contacting Noa Román-Muñiz for additional multi-state collaboration or spin off project
  - e. Potential delivery of water quality education per revised General Order- Meyer, CDQAP
  - f. Advisors working with climate Smart Ag Educators on research projects and information delivery.
  - g. Food safety and leafy green veggie (Latack)
  - h. Hoof trimming in Jerseys (Silva del Rio)
  - i. Slick gene project (Denicol)
  - j. Dry off therapy (Rossow, Aly, Karle, Ferreira)
  - k. Compost bedded pack barn (Black)
  - l. Nutrient management forage uptake (Clark, Heguy, Meyer)
2. Exposure to methods to communicate science to lay audiences in different written formats  
Zoom meeting with Dennis Halladay, Editor Hoards West. Know your audience. Keep it simple. Keep it short. Aim for less than grade 12 and reading ease over 50%. Minimize passive sentences.
3. Commitment to develop a California Dairy website- all to send Karle link to individual lab/faculty/advisor page. Karle add CE Stanislaus staff to assist with design and

linkages. Karle, Heguy and staff schedule meeting to finalize format and upload newsletter material 2009 +

4. Current funding opportunities from the California Dairy Research Foundation (Mullinax)

### **Next steps**

1. Website:
  - a. All send Karle link to individual lab/faculty/advisor page.
  - b. Karle add CE Stanislaus staff to Site Builder to assist with design and linkages.
  - c. Karle, Heguy and staff schedule meeting to finalize format
  - d. Upload newsletter content 2009 - 2019
2. All interested in collaborating on projects discussed, contact PI.
3. Heguy update newsletter article request distribution list.
4. Heguy reformat newsletter per recommendations
5. Karle & Black- further discuss compost bedded pack barn challenges and potential solutions- chopped rice straw??
6. Attend meeting on April 16 for rollout of CVDRMP recommendations/pay attention to revisions coming to dairy general order. May have funding opportunity for educational programming.

### **The PT activities fit with the larger SI picture focal areas.**

Sustainable production, Sustainable Natural Ecosystems, Water Quality/quantity

### **We see the PT is consistent with these Grand Challenges**

Improve water quality, Improve water use, improve nutrient management, enhance carbon conservation (greenhouse gas emissions reductions), improve animal health, improve food production systems, keep food safe

### **We see the following hot topics in our future**

Food safety/leafy green vegetables.

Animal welfare

Use of hormones for reproduction

Antibiotic resistance.

SI	Focal Areas		Grand Challenges
<b>EIPD</b>			
<input type="checkbox"/>	<a href="#">Keeping invasive pests and pathogens out of California</a>	<input type="checkbox"/>	Emerging pests (e.g., Citrus Greening)
<input type="checkbox"/>	<a href="#">New problems with existing pests and diseases</a>	<input type="checkbox"/>	The public understanding the role of science in safe and effective pest management (e.g., urban and household pesticide use relative to use on other systems)
<input type="checkbox"/>	<a href="#">Integrated management</a>	<input type="checkbox"/>	Pursuing new technologies for existing pests (e.g., breeding for powdery mildew)
<b>HFC</b>			
<input type="checkbox"/>	<a href="#">Promoting healthy behaviors for childhood obesity prevention</a>	<input type="checkbox"/>	Childhood obesity
<input type="checkbox"/>	<a href="#">Encouraging and enhancing youth science literacy</a>	<input type="checkbox"/>	Safe drinking Water - Outdated infrastructure and unreliable water supply
<input type="checkbox"/>	<a href="#">Promoting positive youth development</a>	<input type="checkbox"/>	K-12 Education - Low, unstable funding and poor student performance
<input type="checkbox"/>	<a href="#">Community Development</a>	<input type="checkbox"/>	Public safety
<b>SFS</b>			
<input type="checkbox"/>	Sustainable production	<input type="checkbox"/>	<b>Sustainable Production:</b> Labor scarcity; Dealing with regulatory requirements; Water - quantity and quality; Farm Prices; Climate change; Emerging pests
<input type="checkbox"/>	Safe processing	<input type="checkbox"/>	<b>Safe Food Processing:</b> Food safety and preservation
<input type="checkbox"/>	Enhanced access	<input type="checkbox"/>	<b>Enhanced Food Access:</b> Food deserts and cost; Changing food preferences; Food access and security for aging seniors
<b>SNE</b>			
<input type="checkbox"/>	Healthy rangelands, forests and working landscapes	<input type="checkbox"/>	Fire
<input type="checkbox"/>	Fighting Fire – Resilient forests and fire-safe urban areas	<input type="checkbox"/>	Land use policy
<input type="checkbox"/>	Protecting where we live. Healthy landscapes and urban forests	<input type="checkbox"/>	Protecting water supplies - quality and quantity
<input type="checkbox"/>	Enhancing our water supply	<input type="checkbox"/>	Climate change

<b>Water</b>			
<input type="checkbox"/>	Safe & secure drinking water	<input type="checkbox"/>	Drought preparedness
<input type="checkbox"/>	Safe & secure surface water	<input type="checkbox"/>	Sustainable groundwater management
<input type="checkbox"/>	Safe & sustainable groundwater	<input type="checkbox"/>	Options for increasing use of low quality water in agricultural and urban environments
<input type="checkbox"/>	Holistic water management	<input type="checkbox"/>	Lessen impacts from nitrogen use in agricultural and urban environments
<input type="checkbox"/>		<input type="checkbox"/>	Water management strategies in response to climate change and their impacts on water supply, water quality and cropping patterns