**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:
   1. Linking fecal/milk 16s (Maga, Meyer) project to Antimicrobial resistance project (Aly, Okello, Karle)
   2. By product use on CA dairies- Heguy lead. Contact to collaborate.
   3. Metritis bacteria survey- Contact Pereira to collaborate- need 10-12 more herds, especially Northern San Joaquin
   4. 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
   5. Potential delivery of water quality education per revised General Order- Meyer, CDQAP
   6. Advisors working with climate Smart Ag Educators on research projects and information delivery.
   7. Food safety and leafy green veggie (Latack)
   8. Hoof trimming in Jerseys (Silva del Rio)
   9. Slick gene project (Denicol)
   10. Dry off therapy (Rossow, Aly, Karle, Fereira)
   11. Compost bedded pack barn (Black)
   12. Nutrient management forage uptake (Clark, Heguy, Meyer)

1. 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.

1. 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 +
2. Current funding opportunities from the California Dairy Research Foundation (Mullinax)

**Next steps**

1. Website:
   1. All send Karle link to individual lab/faculty/advisor page.
   2. Karle add CE Stanislaus staff to Site Builder to assist with design and linkages.
   3. Karle, Heguy and staff schedule meeting to finalize format
   4. 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.

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| **SI** | **Focal Areas** |  | **Grand Challenges** |
| **EIPD** | | | |
| **󠄓**  **󠄓**  **󠄓** | [Keeping invasive pests and pathogens out of California](http://ucanr.edu/sites/StrategicInitiatives/Endemic_and_Invasive_Pests_-_Diseases/EIPD_Key_Area_Detail/)  [New problems with existing pests and diseases](http://ucanr.edu/sites/StrategicInitiatives/Endemic_and_Invasive_Pests_-_Diseases/EIPD_Key_Area_Detail/)  [Integrated management](http://ucanr.edu/sites/StrategicInitiatives/Endemic_and_Invasive_Pests_-_Diseases/EIPD_Key_Area_Detail/) | **󠄓**  **󠄓**  **󠄓** | Emerging pests (e.g., Citrus Greening)  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)  Pursuing new technologies for existing pests (e.g., breeding for powdery mildew) |
| **HFC** | | | |
| **󠄓**  **󠄓**  **󠄓**  **󠄓** | [Promoting healthy behaviors for childhood obesity prevention](http://ucanr.edu/sites/StrategicInitiatives/Healthy_Families_-_Communities/HFC_Detail/)  [Encouraging and enhancing youth science literacy](http://ucanr.edu/sites/StrategicInitiatives/Healthy_Families_-_Communities/HFC_Detail/)  [Promoting positive youth development](http://ucanr.edu/sites/StrategicInitiatives/Healthy_Families_-_Communities/HFC_Detail/)  [Community Development](http://ucanr.edu/sites/StrategicInitiatives/Healthy_Families_-_Communities/HFC_Detail/) | **󠄓**  **󠄓**  **󠄓**  **󠄓** | Childhood obesity  Safe drinking Water - Outdated infrastructure and unreliable water supply  K-12 Education - Low, unstable funding and poor student performance  Public safety |
| **SFS** | | | |
| **󠄓**  **󠄓**  **󠄓** | Sustainable production  Safe processing  Enhanced access | **󠄓**  **󠄓**  **󠄓** | **Sustainable Production:** Labor scarcity; Dealing with regulatory requirements; Water - quantity and quality; Farm Prices; Climate change; Emerging pests  **Safe Food Processing:** Food safety and preservation  **Enhanced Food Access:** Food deserts and cost; Changing food preferences; Food access and security for aging seniors |
| **SNE** | | | |
| **󠄓**  **󠄓**  **󠄓**  **󠄓** | Healthy rangelands, forests and working landscapes  Fighting Fire – Resilient forests and fire-safe urban areas  Protecting where we live. Healthy landscapes and urban forests  Enhancing our water supply | **󠄓**  **󠄓**  **󠄓**  **󠄓** | Fire  Land use policy  Protecting water supplies - quality and quantity  Climate change |
| **Water** | | | |
| **󠄓**  **󠄓**  **󠄓**  **󠄓** | Safe & secure drinking water  Safe & secure surface water  Safe & sustainable groundwater  Holistic water management | **󠄓**  **󠄓**  **󠄓**  **󠄓**  **󠄓** | Drought preparedness  Sustainable groundwater management  Options for increasing use of low quality water in agricultural and urban environments  Lessen impacts from nitrogen use in agricultural and urban environments  Water management strategies in response to climate change and their impacts on water supply, water quality and cropping patterns |

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