

2021 Dairy Innovation Symposium

Poster information

Listed according to priority area and first author



Ensuring animal health and welfare

William Brown, Department of Animal and Dairy Sciences, UW-Madison

"Using DHIA data sources to predict feed intake in lactating cows"

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Rafael E. P. Ferreira, Department of Animal and Dairy Sciences, UW-Madison

"Cloud computing system for automatic individual animal phenotyping: body condition score and animal identification case study"

"Early detection of ketosis in dairy cows using computer vision and machine learning"

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James Hampton, Animal and Dairy Science Program, UW-Platteville

"Interactions of Fibroblast Growth Factor and protein metabolism during the postpartum period in lactating dairy cows and their effect on animal health"

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Sylvia Kehoe, Department of Animal and Food Science, UW-River Falls

"Improving the health and welfare of dairy calves"

sylvia.kehoe@uwrf.edu

Mark Levenstein, Department of Biology, UW-Platteville

"Shape-based separation of mastitis pathogens using nanosculpted membranes"

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Pedro Monteiro, Department of Animal and Dairy Sciences, UW-Madison

"Calving synchronization and strategy to prevent hypocalcemia in dairy cows"

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Dario Oliveira, Department of Animal and Dairy Sciences, UW-Madison

"Optimized system to monitor animal behavior"

darioaugusto@gmail.com

Andrew Sommer, Department of Bacteriology, UW-Madison

"The role of muscid flies in bovine pathogen dissemination"

asommer3@wisc.edu

Stewarding land and water resources



Hal Evensen, engineering physics, UW-Platteville

“Virtual enclosures to enforce managed grazing”

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Iris Feng, Department of Biological Systems Engineering, UW-Madison

“Manure Nutrient Sensing: Application of new techniques: near-infrared (NIR) spectroscopy and nuclear magnetic resonance (NMR) sensor”

xfeng43@wisc.edu

Laura Ward Good, Department of Soil Science, UW-Madison

“SMART: Mobile maps and application records for better manure management”

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Veronica Justen, Department of Plant and Earth Science, UW-River Falls

“Novel dairy cropping systems to enhance economic and environmental resilience of Wisconsin dairy farms”

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Natasha Rayne, Department of Plant and Earth Science, UW-River Falls

“UWRF Mann Valley Farm bovine compost research”

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Matt Ruark, Department of Soil Science, UW-Madison

“Water quality, nitrogen use efficiency, and soil health: the shovel-ready projects of the UW-Discovery Farms”

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Jill Coleman Wasik, Department of Plant and Earth Science, UW-River Falls

“Strategic study of factors influencing contaminant transport from the land surface into aquifers”

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Patrick Woolcock, Department of Agricultural Engineering Technology, UW-River Falls

“UWRF Mann Valley Farm bovine compost research expansion”

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Growing farm business and communities

Albert Boaithey, Department of Agricultural Economics, UW–River Falls

“Dairy farmer and consumer perceptions about social sustainability”

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John Obielodan, mechanical and industrial engineering, UW–Platteville

“Milk-protein-based 3D printing biocomposites”

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Claudine Pied, Department of Social Sciences, UW–Platteville

“Dairy farm loss: the impact of ag land changes on the dairy industry and rural communities in Southern Wisconsin”

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Marin Skidmore, Nelson Institute for Environmental Studies, UW–Madison

“Effectiveness of local regulations on non-point source pollution Evidence from Wisconsin dairy farms”

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Susanne Wiesner, Department of Biological Systems Engineering, UW–Madison

“Combining remote sensing and eddy covariance to improve dairy greenhouse gas budgets”

swiesner2@wisc.edu

Heidi Zoerb, CALS External Relations, UW–Madison

“A dairy innovation challenge for students and industry mentors”

heidi.zoerb@wisc.edu



Enriching human health and nutrition

Aaron Gall, Department of Food Science, UW–Madison

“Virulence potential of dairy cow isolates of *Listeria monocytogenes*”

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Yu Hasegawa, Department of Food Science, UW–Madison

“Fermentation increases AhR ligands in yogurt that may prevent inflammatory intestinal barrier dysfunction”

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Denise Ney, Department of Nutritional Sciences, UW–Madison

“Glycomacropptide derived from cheese whey: treating obesity by manipulating satiety hormones and the gut microbiota”

ney@nutrisci.wisc.edu

Thomas J. Zolper, mechanical and industrial engineering, UW–Platteville

“Deliciousness of ice-cream: the saga of the ingredients”

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