



C-Lock Inc. Scott Zimmerman, Director of Engineering www.c-lockinc.com

Originally developed for research, a methane and carbon dioxide emissions monitoring system is now being released for on-farm use. C-Lock Inc. will be displaying its GreenFeed system for the first time at World Dairy Expo. It can be found on the Main Concourse of the Coliseum at booth MC 07.

What does your company specialize in?

ZIMMERMAN: We developed an automatic, real-time, online system to measure methane and carbon dioxide emissions from the mouth of

individual cows. It attracts a cow to a feeding station two to three times throughout the day. The methane and carbon dioxide emission rates are measured. With RFID, it is possible to define emissions rates for individual animals.

What type of dairy producer does your product/service benefit the most?

ZIMMERMAN: Our product will most benefit dairy producers that are interested in using new technologies that will help them better manage their dairies, including tracking



animal efficiency and animal health. This will allow the producer to reduce costs over time. It can be used in any size dairy farm, large or small.

How will your product/service make a dairy more profitable and/or more efficient?

ZIMMERMAN: Methane emissions represent a significant energy loss from dairy cows. Carbon dioxide emissions are indicative of the cow's metabolic efficiency. By providing a technology that can measure emissions, we can provide critical information to the dairy producer. This data can help the dairy producer improve efficiency, animal health and reduce costs.

What is most unique about this product?

ZIMMERMAN: A producer can purchase our automated feeder with everything included or can have it fitted into automated milking robots, with no interference to the robot's normal operation.

What brought about its creation?

ZIMMERMAN: The founder of our company, Dr. Patrick Zimmerman, originally invented and patented an SF6 tracer technique to measure methane emissions from individual animals. However, it is expensive, time-consuming and requires specialized analytical equipment. He was determined to invent a low-cost and more user-friendly method

that is practical for production environments.

When was the company started?

ZIMMERMAN: C-Lock Inc. was originally started in 2005. However, the development of the GreenFeed system has mainly occurred over the past two years.

Where is the company's headquarters?

ZIMMERMAN: Rapid City, South Dakota

Why the name?

ZIMMERMAN: GreenFeed was selected because methane is a powerful greenhouse gas. Reducing methane emissions also reduces greenhouse gas emissions. Therefore, reducing methane emissions is a benefit to the environment and to the producer.

What region of the U.S. do you serve?

ZIMMERMAN: We can ship the GreenFeed units anywhere in the world.

Why are you most looking forward to World Dairy Expo?

ZIMMERMAN: Interacting with dairy producers and demonstrating our product for the first time. We are also excited about feedback that producers can provide us as we continue to improve our product offerings in the future. **PD**

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