

# Free Technology Demonstration

## For Liquid Manure Management and Wastewater Treatment

June 2 • 11 AM - 1 PM

Lunch Provided

UI Swine Research Center

Near the corner of First Street and Curtis Road

Enter from the Curtis Road Entrance

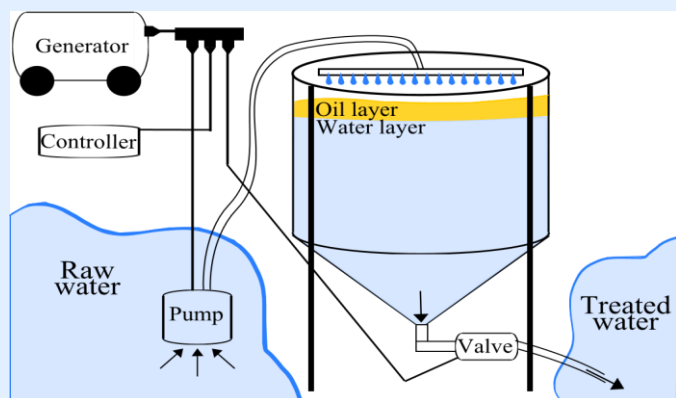


**ILLINOIS SUSTAINABLE  
TECHNOLOGY CENTER**  
PRAIRIE RESEARCH INSTITUTE



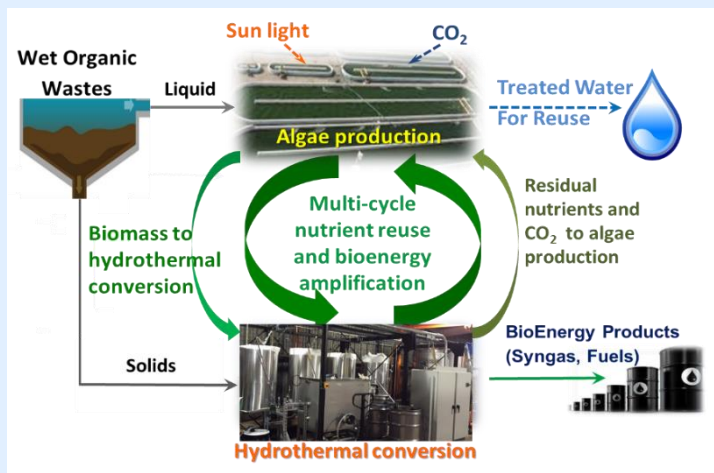
Come hear about novel technologies that will help with liquid manure management, prevent emerging contaminants from entering the environment, and help wastewater treatment plants meet nutrient discharge regulations. Get an opportunity to talk with scientists, give feedback based on real life experience, and network with colleagues. This demonstration is open to farmers/farm operators, wastewater treatment professionals, sustainability professionals, and researchers.

Please RSVP by May 30: <https://illinois.edu/fb/sec/7301363>



### Vegetable Oil Filtration

This filtration system is 55 gallons in size and can be put in series or parallel to work with small- to medium-sized animal feeding operation liquid manure lagoons and small rural wastewater treatment lagoons. It uses the hydrophobic nature of any hormones remaining in the liquid manure or sewage to trap them in the oil to prevent their release into the environment.



### Algae Treatment and Energy Production

This treatment method is fully scalable to any size system and works best with large animal feeding operations and traditional wastewater treatment plant technologies. The algae remove nutrients and other contaminants from sewage and manure. Then the algae is separated from the water. The water can be discharged and the algae are processed using hydrothermal liquefaction to create liquid fuel and other bioenergy products.