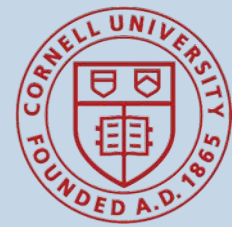




DEPARTMENT OF  
ENVIRONMENTAL SCIENCE  
& TECHNOLOGY



## Workshop

# Opportunities and Challenges in Anaerobic Digestion: Maryland and the Northeast US Experience

**October 2, 2018. 9:15am – 4:30pm**

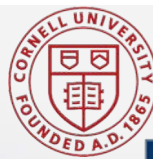
Doubletree by Hilton, Annapolis  
210 Holiday Court, Annapolis, Maryland, 21401

WiFi Password: ANP18





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# Workshop

## Opportunities and Challenges in Anaerobic Digestion: Maryland and the Northeast US Experience

October 2, 2018 (9:15am – 4:30pm)  
 Doubletree by Hilton, Annapolis  
 210 Holiday Court, Annapolis, Maryland, 21401

Time	Agenda
8:30 - 9:15 am	<b>Registration</b>
9:15 - 10:30am	<ul style="list-style-type: none"> <li>• Workshop Introduction (<b>Gary Felton</b> and <b>Stephanie Lansing</b> – University of Maryland)</li> <li>• Anaerobic Digesters: Where We Are Today (<b>Chris Voell</b> - AgSTAR )</li> <li>• Digester System in the Northeast – Successful Case Studies (<b>Curt Gooch</b> – Cornell University)</li> </ul>
10:30 -10:45am	<b>Break</b>
10:45am – 12:15pm	<ul style="list-style-type: none"> <li>• Federal Biogas Policy (<b>Patrick Serfass</b> – American Biogas Council)</li> <li>• Financial Reality of Digesters and National Programs (<b>Jeff Porter</b> – USDA NRCS)</li> <li>• Opportunities for Growth and Financial Incentives in Northeast/Mid-Atlantic (<b>Gary Felton</b> – University of Maryland)</li> </ul>
12:15 - 1:30 pm	<b>Lunch</b>
1:30 – 3:00pm	<ul style="list-style-type: none"> <li>• Chesapeake Bay and Nutrient Management: (<b>Dwight Dotterer</b> MD Dept of Agriculture)</li> <li>• Food Waste and Co-substrates, landfill diversion (<b>Stephanie Lansing</b> – University of Maryland)</li> <li>• Use of Biogas: Scrubbing, RNG, GenSets &amp; Use of Excess Heat (<b>Curt Gooch</b> – Cornell University)</li> <li>• Antibiotics Resistance, Manure Technologies, and Value-Added Treatment (<b>Stephanie Lansing</b> – University of Maryland and <b>David Lansing</b> –UMBC)</li> </ul>
3:00 – 4:30 pm	<ul style="list-style-type: none"> <li>• Discussion Panel (<b>Kilby Farm, BTS, Reinford Farm, PFED</b>)</li> <li>• Closing remarks and Workshop Wrap Up (<b>Gary Felton</b> and <b>Stephanie Lansing</b> – University of Maryland)</li> </ul>

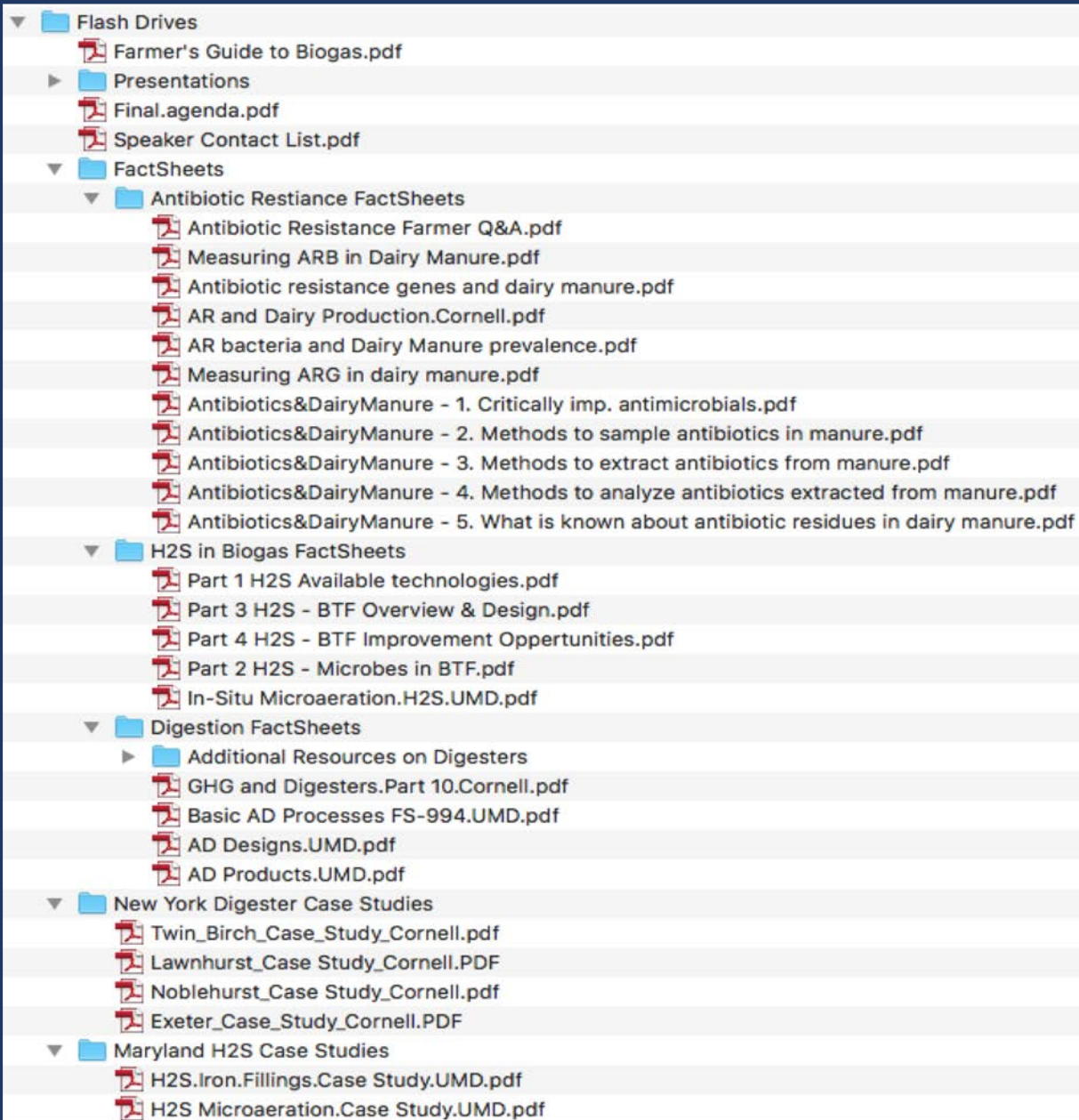
**Contact Us: Stephanie Lansing**, University of Maryland , Department of Environmental Science and Technology  
 slansing@umd.edu 301-405-1197

# Workshop Expectations

- What do you hope to learn from this workshop?

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# Flash Drive Content Overview



- Presentations
- Biogas Guide
- FactSheets
- Case Studies
- Policy Survey Link
- Speaker Contact Information



## Farmer's Guide to Dairy-Derived Biogas Production, Treatment and Utilization

Date: October 1, 2018

Authors: Tim Shelford, Curt Gooch, Maggie Hines, Abhinav Choudhury, Gary Felton, Stephanie Lansing

Project: NE SARE Project Number – LNE15-341

The Guide will provide farmers with information on:

- (1) factors affecting biogas production and composition,
- (2) description and treatment capabilities for different types of biogas scrubbing systems, and
- (3) managing and operating guidelines for engine generator sets with different scrubber systems.



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# Anaerobic Digestion Survey

- We are conducting a research study on anaerobic digestion adoption in the U.S. The purpose of the research is to better understand financial and policy barriers to anaerobic digestion implementation in the US. The survey will take approximately 15 minutes to complete.
- We appreciate your time and consideration in completing the survey, and thank you for participating in the study. You can contact the Principal Investigator at any time with questions, Dr. Stephanie Lansing (slansing@umd.edu).
- Please copy the link below to go to the survey website into your Internet browser.

[https://umdsurvey.umd.edu/jfe/form/SV\\_72o3cJsTEmMN3yB](https://umdsurvey.umd.edu/jfe/form/SV_72o3cJsTEmMN3yB)



# Poll Everywhere – Discussion and Workshop Evaluations

- Antimicrobial Resistance Presentation Questions/Survey (afternoon session):
- Workshop Evaluation End of workshop:



When poll is active, respond at [PollEv.com/stephanielan887](https://PollEv.com/stephanielan887)

Text **STEPHANIELAN887** to **22333** once to join

Answers to this poll are anonymous

The image shows two smartphone screens side-by-side. The left screen, titled 'Texting', displays a 'New Message' interface with the recipient number '22333' in a green bubble. Below the message input field, there is a text entry field containing '<Your response>' and a green 'Send' button. The right screen, titled 'On the web', shows a web browser interface with a text entry field containing '<Your response>' and a blue 'Submit Response' button below it.