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# Keeping Current biosolids 22 23 October residuals South Portland

October 22 & 23, 2014  
Portland Marriott at Sable Oaks, South Portland, ME



**BIO FERM**™  
ENERGY SYSTEMS

**VIESSMANN** Group

## Renewable energy-from-waste technology

- Over 350 anaerobic digestion plants globally
- Complete range of digester systems
- Member of Viessmann Group—\$2.8 billion annual international sales





Wet digester



Dry digester



Plug-Flow digester



Small-scale digester

**More information about energy generation from  
biosolids? Visit our booth**



## Thanks for your sponsorship!

- AECOM
- Aqua Solutions, Inc.
- ARCADIS
- Brown and Caldwell
- CDM Smith
- David F. Sullivan & Assoc., Inc.
- EST Associates, Inc.
- Hazen and Sawyer, PC
- Kleinfelder
- NEFCO
- RH White Construction Co.
- Synagro Northeast LLC
- The MAHER Corporation
- Tighe & Bond, Inc.
- Wright-Pierce



GEA



## Introducing GEA Westfalia Separator **ecoforce**.

Featuring GEA Westfalia Separator ecoforce **waterMaster**  
decanter centrifuges –  
Better Technology That Pays for Itself.

engineering for a better world

GEA Mechanical Equipment



## **GEA Westfalia Separator waterMaster**

Energy consumption reduced by up to 50 percent

engineering for a better world

GEA Mechanical Equipment



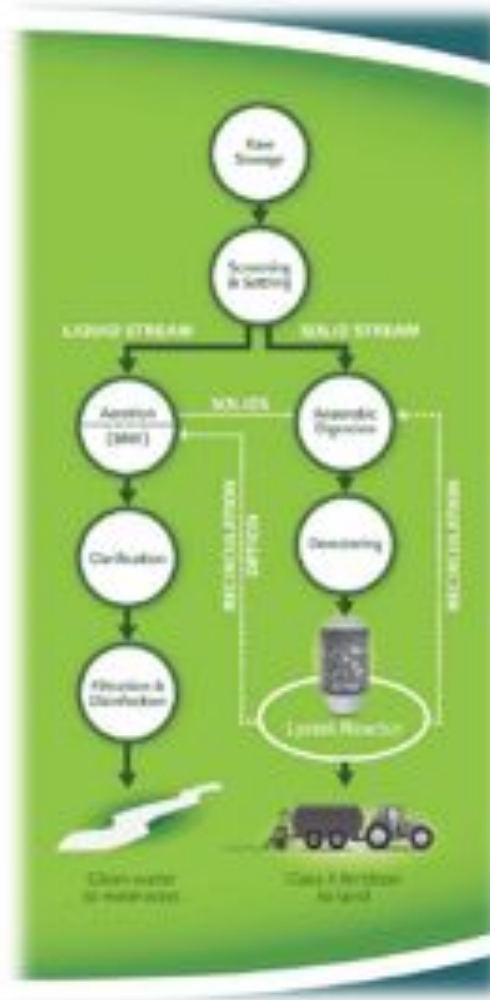
t: 226-444-0186  
e: [info@lystek.com](mailto:info@lystek.com)  
w: [www.lystek.com](http://www.lystek.com)





# One System = Multiple Benefits

Produce a  
Class A  
Fertilizer  
Product



Optimize  
Digesters  
& BNR  
Systems



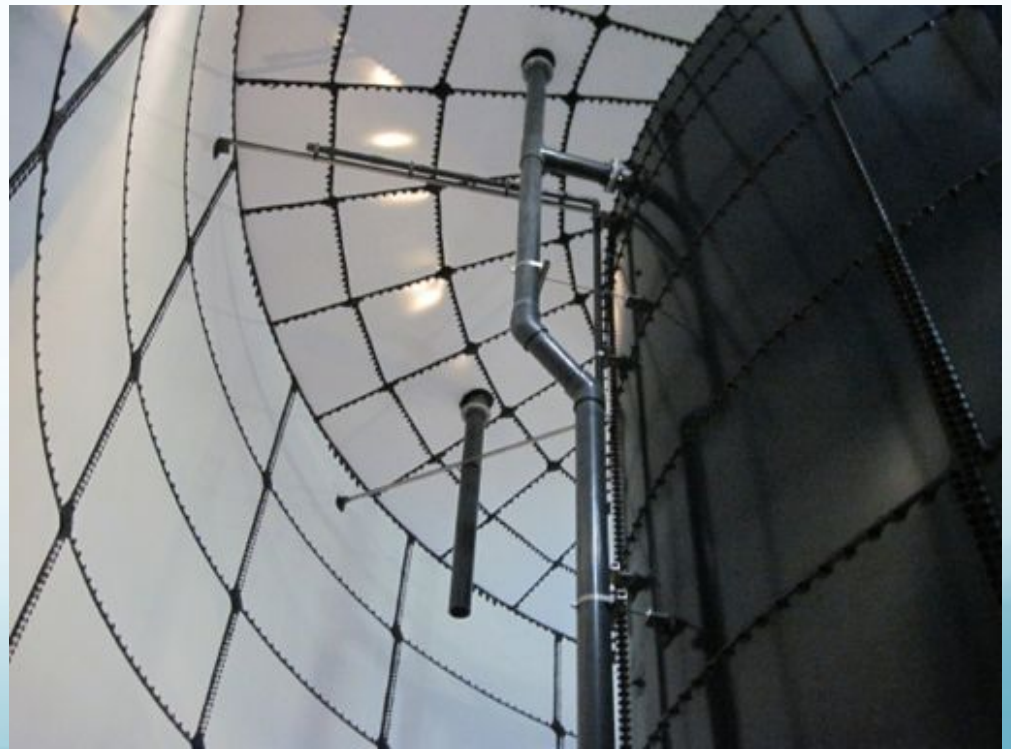
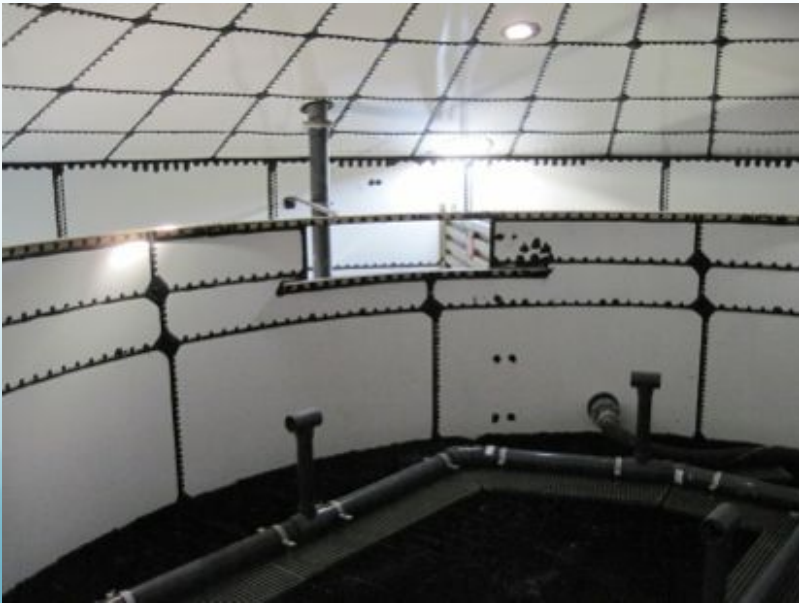


# Anerobic Digesters

Digester Storage Tanks

Statewide Aquastore  
Harry Hagan  
[hhagan@besttank.com](mailto:hhagan@besttank.com)

Membrane or Externally Supported Covers



# **Crapo Hill Anaerobic Digester**

**New Bedford, MA Pilot Project –  
Completed October 2014**

**Statewide Aquastore  
Harry Hagan  
[hhagan@besttank.com](mailto:hhagan@besttank.com)**





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# Keeping Current biosolids 22 23 October residuals South Portland

landscape rulemaking  
sidestream  
optimization  
private  
ClassB anaerobic  
nutrients public  
quality foaming  
energy odors  
ClassA foodwaste FOG  
struvite digestion  
EMS netzero  
management  
codigestion  
ionization  
regulations  
mixing

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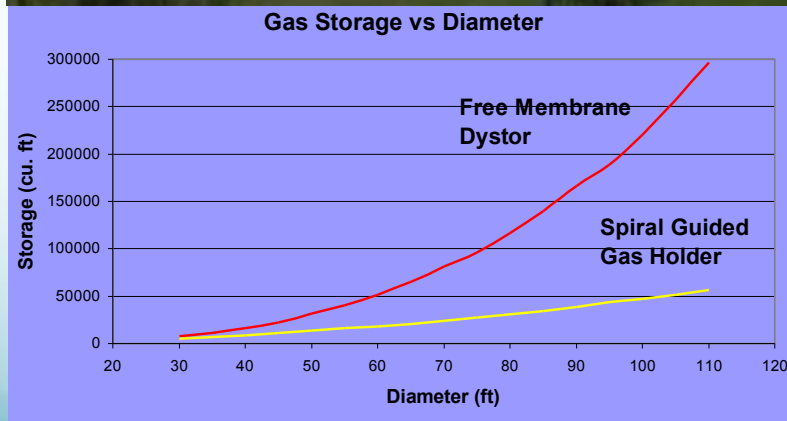


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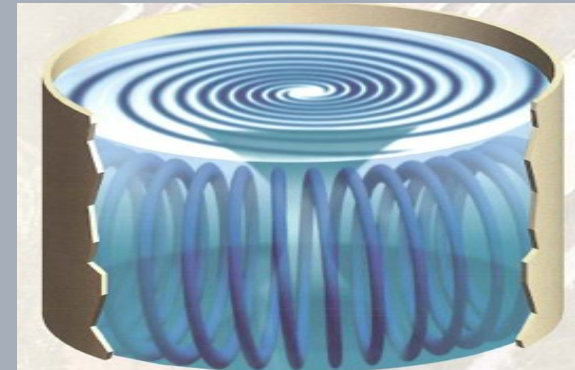
# Evoqua Dystor Dual Membrane Gas Holder System



- Allows a greater volume of gas storage per tank diameter
- Allows variable sludge level throughout entire side wall depth of digester, maximizing sludge storage management
- Low maintenance – Fan motor bearings, LEL detector, pressure transmitters, Pressure Control Valve
- Adjustable operating pressure eliminates need to modify cover for system changes
- Reduced gas loss minimizes emissions and odors
- Over 125 units installed
- Manufacturer installed system

# EVOQUA – JET MIX HYDRAULIC MIXING

- Optimum Mixing efficiency for organic and inorganic (grit) solids
- Effective for mixing all types/ shapes of tanks
- Proper nozzle design and orientation are key to efficient mixing
- Mixing effective with variation in liquid level



## **Benefits**

- Increased mixing efficiency of 20% improves digestion process
- Lower operating costs for O&M and energy – can be run intermittently
- Easy retrofit of existing tanks
- Eliminates internal tank maintenance





 **Rotamix**<sup>®</sup>  
PROCESS MIXING SYSTEMS





**RoS3Q**

Inclined Screw Dewatering  
Press



# EXHIBITORS

*Everyone – please spend some time with these fine supporters:*

- Aqua Solutions, Inc.
- BIOFerm Energy Systems
- Casella Organics
- David F. Sullivan & Assoc., Inc.
- Lystek International Inc.
- The MAHER Corporation
- Resource Management, Inc.
- Statewide Aquastore
- Technology Sales Associates, Inc.
- Walker Wellington LLC
- WeCare Organics LLC







# Agenda - Thursday

- 7:30 Registration / Continental Breakfast (here)
- 7:50 Welcome & Opening Remarks
- 8:00 Session 2: Go For It!
- 9:30 Break / Exhibits
- 10:00 Keynote: 25 Years in the Biosolids
- 11:00 Session 3: Nutrient Challenges & Opportunities
- 12:00 Lunch / Exhibits  
You've Got Options – Lunchtime technology presentations
- 1:15 Session 4: Rising to the Challenge
- 2:15 Break / Exhibits
- 2:30: Session 5: Regulation Roundtable
- 4:00 Closing Remarks & NEBRA Raffle Drawing

