Keeping Current biosolids

October 22 & 23, 2014

Portland Marriott at Sable Oaks, South Portland, ME
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
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
Introducing GEA Westfalia Separator ecoforce.

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

ingineering 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
One System = Multiple Benefits

Produce a Class A Fertilizer Product

- Feedstock
  - Dewatered Biosolids
  - Organic food scraps

- Processing
  - Mud is added
  - Oxygen is injected
  - High-speed stirring process

- Product
  - Class A quality
  - Liquid fertilizer
  - Sold to market

- Storage
  - Product is stored in tanks or digester until application

- Application
  - Product is applied using standard equipment

Optimize Digesters & BNR Systems

Lystek
Nothing wasted. Everything to gain.
Aerobic Digesters

Digester Storage Tanks

Membrane or Externally Supported Covers

Statewide Aquastore
Harry Hagan
hhagan@besttank.com
Crapo Hill Anaerobic Digester

New Bedford, MA Pilot Project – Completed October 2014

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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

![Gas Storage vs Diameter](chart.png)
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
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