**DIRECTIONS**

Traveling on I-43 South, exit on Webster Avenue / East Shore Drive (exit 187). Turn right on to Webster Avenue, and stay in the most right lane. Turn right at the stop lights on to Radisson Street. After the train tracks, take a right on to North Quincy Street. NEW Water will be on the left.

Traveling on I-43 North, exit on Webster Avenue / East Shore Drive (exit 187). Turn right on to East Shore Drive, and move to the far left lane. At the stop sign take a left on to Bay Beach Road. Turn left on to North Quincy Street. NEW Water will be on the right.

NEW Water  
*The brand of the Green Bay Metropolitan Sewerage District*  
2231 N. Quincy Street  
Green Bay, WI 54302  

newwater.us

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**RESOURCE RECOVERY SEMINAR**

**Wednesday, November 14, 2018**

**Sponsored by:**

[Resource Recovery & Electrical Energy]

[NEW Water]
RESOURCE RECOVERY SEMINAR INFORMATION

WEDNESDAY, NOVEMBER 14, 2018

This seminar provides a place for operations discussion related to a wide array of resource recovery practices in the wastewater field. The seminar will focus on energy related topics in the wastewater field and will also include bull session discussions. Several areas of resource recovery will be presented by recognized experts. Also, five hours of WI DNR CEU’s will be provided.

FEE: Preregistration is only $50 if you register before 10/16/2018. After 10/16/2018, the cost is $60. (Fee includes program materials and lunch). Student registration is $20. On-site registration is limited to the first 75 participants.

LOCATION: NEW Water - Green Bay, WI

SCHEDULE:

8:00AM  Registration / Continental Breakfast
8:30AM  Pyrolysis of Biosolids to Biochar
   By: Patrick McNamara - Marquette University
   An in-depth examination of the many uses and
   potential concerns when dealing with the gas, oil, and
   biochar produced from pyrolysis.
9:15AM  RINs / Biogas / Digestion
   By: Randy Wirtz - Strand
   New opportunities in renewable natural gas have the
   potential to provide extremely high values for digester
gas, but there are some risks.
10:00AM Break
10:15AM  Advancing Anaerobic Digestion of Wastewater
   Solids and Food Waste for Energy and Resource
   Recovery: Science and Solutions - A Framework
   for the Practice of Co-Digestion
   By: Matt Seib - Madison Metropolitan Sewerage District
   & Kevin Jankowski - Milwaukee Metropolitan Sewerage
   District
   An overview of the main concepts from workshops
   regarding existing co-digestion programs, practices
   to improve the success of co-digestion programs, and
   recommendations and research needs for industries.
11:00AM Anaerobic Digester Microbial Community and
   Digester Metadata
   By: Ali Ling - BARR Engineering & John Tillotson -
   Microbe Detectives
   Key performance indices (KPIs) have the potential to
   help operators improve system operation though the
   use of microbial community analysis.
11:45AM  Seminar Photo / Lunch
12:45PM Bull Session
1:30PM  Overview of NEW Water’s Resource Recovery
   and Electrical Energy Project
   By: Nate Qualls & Jake Becken - NEW Water
   Innovation in design, construction, and start-up have
   brought about an evolution of a new solids handling
   and electrical generation project.
2:00PM Tour of NEW Water’s Resource Recovery and
   Electrical Energy Facilities
4:00PM End of Session

COMMITTEE MEMBERS:
Jeremy Cramer - Chair  Bill Marten
Jake Becken  Rusty Schroedel
Steve Brand  Matt Seib
Lindsey Busch  Sharon Thieszen
Alan Grooms  Patrick Wescott
Troy Larson  Randy Wirtz

REGISTRATION:
Register and pay online at www.cswea.org/wisconsin/events or mail completed form with payment to:
Patrick Wescott
2231 North Quincy Street
Green Bay, WI 54302

**Make checks payable to: CSWEA - WI Section**
**Please submit 1 registration form per person**

Name:_____________________________________________
Company:__________________________________________
Address: __________________________________________
City/State/Zip:______________________________________
Phone:____________________________________________
Email:_____________________________________________

Registration deadline: Forms and payment due in full by
day of the event.
$50 preregistration before 10/16/2018; $60 after 10/16/2018
through day of event.
Student registration is $20.
No refunds given after 10/16/2018.
No purchase orders or company billing will be accepted.
Please let us know of any special dietary requirements: ___

Questions? Call Jeremy Cramer at 920-318-4094