

New York State Association For Solid Waste Management

2021 Fall CONFERENCE

Harbor Hotel

1000 Islands, Clayton, NY

Sept. 26 - 28

7.5 Continuing
Education Hours
for P.E.s Will be
Offered



Register by
Sept. 10
To get the early bird
rate!

Conference Registration	Exhibitor Registration and Conference Questions A limited number of exhibitor booths are available.
Jodi Tuttle 315-733-1224 x 1200 Fax registration: 315-733-2305 Email: jodit@ohswa.org	Jeff Bouchard Email: jbnysaswm@gmail.com 518-568-2095
New York State Assoc. For Solid Waste Management 546 East Road, St. Johnsville NY 13452 518-568-2095	

AGENDA

Day 1 Sunday, Sept. 26, 2021

6:30 PM **NYSASWM Welcome Reception** (At Harbor Hotel)

Day 2 Monday, Sept. 27, 2021

7:00 AM **Breakfast** (*must have name badge*)
8:00 AM **Registration Opens/Board of Directors' Meeting**
9:00 AM **Meet the Exhibitors**
10:00 AM **Welcome** – Rich Bills, NYSASWM President



Regulations, Legislation and Potential Impacts (2.0 PDH)

10:05 AM **NYS DEC Updates on Landfills and Climate Action Legislation**
Richard Clarkson, P.E., NYSDEC
11:00 AM **NYS Climate Action Council Waste Panel and Potential Impacts**
Steve Changaris, Northeast Region Vice President, National Waste and Recycling Association (NWRA).
12:05 PM **Lunch** (*must have name badge*)

Emerging Contaminants and Biosolids Management (1.0 PDH)

1:00 PM **Something's Gotta Give: Where Should We Send Our Biosolids?**
Peter G. Baker, P.E., Barton & Loguidice
2:00 PM **Break** (*in exhibitor area*)

Organics Management (2.0 PDH)

2:30 PM **NYS DEC Food Scrap and Organics Regulations**
Molly Trembley, P.E., NYSDEC
3:00 PM **Food Waste Diversion Program**
Bill Rabbia, Oneida-Herkimer Solid Waste Authority
3:45 PM **Anaerobic Co-Digestion of Organic Wastes with Wastewater Treatment Plant Biosolids**
Aiden Murphy and Boyd Gregg, P.E., Energy Systems Group (ESG)
4:30 PM **Business Meeting** – Award Presentation & Election of Officers
5:30 PM **River Dinner Cruise and Attitude Adjustment Hour**

Day 3 Tuesday, Sept. 28, 2021

7:00 AM **Breakfast** (*must have name badge*)

Landfill Design and Construction (1.5 PDH)

8:30 AM **Solid Waste Program Update**
Patricia Pastella, P.E., Development Authority of the North Country
9:00 AM **Understanding Impacts of Granular Structural Fill Material on ALR Compliance**
Abigail Gilson, P.E., TRI Environmental and Larry Shilling, Casella Waste
10:00 AM **Break** (*in exhibitor area*)

Landfill Energy Project (1.0 PDH)

10:30 AM **Leveraging the RNG Potential of Small to Medium Landfills**
Jason Pennypacker and Tanguy Largeau, WAGA Energy, Inc.
11:30 AM **Adjournment - Box Lunch Available. See You Next Year at the Crown Plaza!**

Continuing Education Credit - The course will be broken into the sessions below to teach attendees various aspects of the solid waste industry. All sessions will be taught live providing question & answer opportunities for the learner. Up to **7.5** professional development hours (PDH) of New York State professional engineering continuing education will be offered for this conference for the sessions outlined below. Attendance at all presentations and completing the course evaluation is required to receive the credit for each session. Partial credit will not be given for the individual sessions. For a detailed topical outline with delivery timeframes, please refer to the conference Agenda. Please see below for a listing of presentations, learning objectives and speaker information.

Session 1: Regulations, Legislation and Potential Impacts (2.0 PDH)

When: Monday, September 27, 2021, 10:00 AM to 12:00 PM

In 2019, Governor Andrew Cuomo signed into law the Climate Leadership and Community Protection Act which requires New York to reduce economy-wide greenhouse gas emissions 40 percent by 2030 and no less than 85 percent by 2050 from 1990 levels. The law created a Climate Action Council charged with developing a scoping plan of recommendations to meet these targets. Advisory Panels were formed to hold sector-specific discussions and to provide recommendations to the Council. The presentations during this session will provide a summary of the Waste Advisory Panel discussions, resulting recommendations to the Council and the potential legislation and regulatory changes.

NYS DEC Updates on Landfills and Climate Action Legislation

The NYS Department of Environmental Conservation will present on potential legislation resulting from the Climate Action Council. Other important landfill regulatory updates will be presented including the revisions to Part 363. Upon successful completion of the course, the learner will be able to:

- ◆ Recall what the Climate Action Council is and New York State's greenhouse gas reduction goals.
- ◆ Describe potential legislative changes which may result from the Climate Action Council.
- ◆ Explain the upcoming changes to the 6 NYCRR Part 363 regulations for landfills, why they are being implemented, impacts to landfill design and timeline for implementation.

Speaker: **Richard Clarkson, P.E.** – As the director of the Bureau of Solid Waste Management, Mr. Clarkson and his staff regulate solid waste management facilities and waste transporters, review and approve local solid waste management plans, administer state recycling assistance grants to municipalities, and oversee the abatement of illegal tire sites among other activities. Mr. Clarkson has worked for the Department since 1997. He is a licensed professional engineer and received his bachelor's degree in Environmental Engineering from Rensselaer Polytechnic Institute.

NYS Climate Action Council Waste Panel and Potential Impacts

A summary of Climate Action Council Waste Advisory Panel meetings will be presented including a discussion on resulting potential legislation and the possible impacts to the solid waste industry. Upon successful completion of the course, the learner will be able to:

- ◆ Describe the Climate Action Council Waste Advisory Panel meetings and the recommendations brought forward to the Council.
- ◆ Explain the various points of view brought forward during the meetings in regards to waste management in New York State.
- ◆ Describe potential legislative changes and the possible impacts to the New York State solid waste industry.

Speaker: **Steve Changaris** - Mr. Changaris is in his 30th year at NWRA, a national trade group dedicated to private sector companies that provide environmentally sound and economically efficient management of solid wastes, recyclables and organics. NWRA also has an active group of members that manufacture and supply all the items used in contemporary waste management. He covers the northeastern states for NWRA, working with waste and recycling companies, interacting on their behalf at the state, local, regional, special authority and county level. He works with legislative and other elected officials as well as administrative and regulatory officials in all solid waste, recycling and organics management areas. Mr. Changaris holds a master's degree in political science.

Session 2: Emerging Contaminates and Biosolids Management (1.0 PDH)

When: Monday, September 27, 2021, 1:00 PM to 2:00 PM

Something's Gotta Give: Where Should We Send Our Biosolids?

Per- and poly-fluorinated compounds (aka, "PFAS") have received a significant amount of attention over the past several years due to many high profile instances of contaminated drinking water supplies across the US. USEPA has established health advisory levels but has yet to provide a federal MCL for these compounds. Many states, including New York, have established their own regulations in advance of federal MCLs. The end result has been a wide disparity in current regulations across the country. Many states have established drinking water standards for these compounds, but far fewer have taken the next step in regulating these compounds as they relate to wastewater treatment; specifically through limited regulation of surface water and wastewater biosolids. Coupled with the unknowns regarding future regulation of biosolids and wastewater, the biosolids market in NY is shifting from a predominance of landfill disposal to finding alternatives such as land application or composting. The purpose of this presentation will be to provide an evaluation of biosolids management regulations that have been established in nearby states, and provide considerations for future biosolids management in NY. Upon successful completion of the course, the learner will be able to:

- ◆ Recall what PFAS compounds are and understand the status of various state PFAS regulations.
- ◆ Describe the various options of biosolids disposal currently being practiced based on the regulations in various states.
- ◆ Explain why wastewater treatment plants may be necessitating additional treatment for industrial users (e.g., landfill leachate) or the elimination of biosolids as a viable management strategy.

Speaker: **Peter G. Baker, P.E.** – Mr. Baker is Senior Managing Engineer at Barton & Loguidice, DPC with more than 30 years experience working on various civil and environmental engineering projects. Mr. Baker has led design teams in various solid waste management, leachate management and water/wastewater treatment system projects. He is a licensed professional engineer and is a graduate of Clarkson University (B.S. in Civil Engineering).

Session 3: Organics Management (2.0 PDH)

When: Monday, September 27, 2021, 2:30 PM to 4:30 PM

NYS DEC Food Scrap and Organics Regulations

Part 350 will implement the requirements outlined in the NYS Food Donation & Food Scraps Recycling law. The law takes effect on January 1, 2022 and requires large generators of food scraps to donate excess edible food and recycle all remaining food scraps if they are within 25 miles of an organics recycler. The presentation focus will be on compliance and regulatory details and updates regarding the Law, a look at the current organics recycling capacity in NYS, and information for those looking to give technical assistance to food scraps generators. Upon successful completion of the course, the learner will be able to:

- ◆ Describe the proposed Part 350 regulations and understand the requirements of the regulations and the impacts on solid waste management in New York State.
- ◆ Define large quantity generators and explain the various donation and recycling options they may have.
- ◆ Explain organics recycling and the management and compliance of these programs.

Speaker: **Molly Trembley, P.E.** – Ms. Trembley is currently an environmental engineer at the NYS Department of Environmental Conservation. Over her career with the Department, Ms. Trembley has provided regulatory review and guidance to solid waste programs and assisted with the development of new solid waste regulations. She is a graduate of SUNY at Buffalo (B.S. in Environmental Engineering).

Food Waste Diversion Program

As diversion of food waste continues to be a focus in the industry, solid waste management professionals continue to adapt and develop systems to accommodate the growing need. This presentation will provide a case study of the Oneida-Herkimer Solid Management Authority Food Waste Diversion Program including the permitting, design and construction of the Food2Energy/Source Separated Organics Processing Facility. Upon successful completion of the course, the learner will be able to:

- ◆ Explain the permitting, design and operations of the Authority's Food2Energy/Source Separated Organics Processing Facility.
- ◆ Have a basic understanding of the design and operational considerations of a source separated organics processing facility.

Speaker: **William A. Rabbia** - Mr. Rabbia is the Executive Director of the Oneida-Herkimer Solid Waste Authority located in Central New York. Mr. Rabbia has been with the Authority since May 1991. He was appointed Executive Director in March of 2009. Prior to becoming Executive Director, he served as Deputy Executive Director. Mr. Rabbia has a B.S. degree in Environmental Science and Planning from SUNY College of Environmental Science and Forestry, Syracuse, NY. Mr. Rabbia is a SWANA Certified Landfill Manager and Certified NYS Landfill Operator.

Anaerobic Co-Digestion of Organic Wastes with Wastewater Treatment Plant Biosolids

Anaerobic co-digestion of both liquid and solid organic wastes with wastewater treatment plant biosolids (sludge) continues to be implemented and is part of a solution to organics management requirements in New York State. Upon successful completion of the course, the learner will be able to:

- ◆ Describe the environmental, regulatory and economic drivers for these projects.
- ◆ Identify the types of infrastructure available at some wastewater treatment facilities that make co-digestion feasible and improvements necessary to implement co-digestion at wastewater treatment facilities.
- ◆ Explain the interface and coordination between Solid Waste professionals and Wastewater professionals that are key to success.
- ◆ Understand the cost, benefits and opportunities of implementing co-digestion projects.

Speakers: **Boyd Gregg, P.E.** – Mr. Gregg is a Project Engineer for Energy Systems Group (ESG) and has been working in the wastewater industry for over 19 years where he specializes in co-digestion, biosolids, waste-to-energy, and combined heat and power (CHP) systems. He has experience in the design and construction of water resource recovery facilities and has worked on many co-digestion, biosolids, waste-to-energy and CHP projects as an engineer and project manager. Mr. Gregg holds a B.S. in Civil Engineering from Clemson University and an M.S. in Civil Engineering and Applied Fluid Mechanics, also from Clemson University. He is a licensed professional engineer.

Aidan Murphy – Mr. Murphy is the Director of Performance Assurance for Energy Systems Group (ESG) where he is responsible for leading ESG's development efforts for co-digestion and RNG projects. ESG uses its HSOW and RNG market intelligence to connect client's assets to markets creating new revenue opportunities. ESG focuses on design-build construction when additional assets are required to augment existing infrastructure. In addition, Mr. Murphy helps teams manage the startup and commissioning process, project close out and all post construction services teams.

Session 4: Landfill Design and Construction (1.5 PDH)

When: Tuesday, September 28, 2021, 8:30 AM to 10:00 AM

Solid Waste Program Update

The Development Authority of the North Country manages a multitude of programs, including a state of the art Materials Management Facility, servicing primarily the three country region of St. Lawrence, Jefferson and Lewis counties of New York. This presentation will provide an update on the Development Authority of the North Country's solid waste programs including case studies of the recent Southern Expansion and Capping Projects. Upon successful completion of the course, the learner will be able to:

- ◆ Recall the history of the Development Authority, their solid waste programs and how they are operated.
- ◆ Describe, in general, the permitting, design aspects and construction of the Southern Expansion and most recent capping projects at the Materials Management Facility.

Speaker: **Patricia M. Pastella, P.E.** – Ms. Pastella is the Materials Management Division Director of the Development Authority of the North Country. Ms. Pastella has over 35 years of experience in engineering and construction in the water, sewer and waste management fields in both the public and private sector. She is a licensed professional engineer and is a graduate of SUNY College of Environmental Science and Forestry (B.S.) and Paul Smiths College (A.A.S.)

Understanding Impacts of Granular Structural Fill Material on ALR Compliance

Several sites containing sand or fine Gravel Leak Detection system (LDS) material have been noted to initially exceed the state mandated 20 gpad leakage rate, even after being checked for leaks using electrical leak location testing of the primary geomembrane. Leakage was not observed to be affected by rainfall, which has led to the study of the LDS material properties and climatic factors. This presentation will analyze a case study into this situation and pose a solution in order to manage this effect for future landfill expansions that have compressed permitting timelines. Upon successful completion of the course, the learner will be able to:

- ◆ Recall liner system construction methods including electrical resistivity testing requirements.
- ◆ Explain how granular fill material behaves in the LDS layer, which explains a phenomenon previously seen but not understood.
- ◆ Describe and apply what additional LDS material testing and drainage calculations are required in order to document this phenomenon.

Speakers: Abigail Gilson, P.E. – Ms. Gilson is a Senior Engineer and Director of Liner System Integrity Services for TRI Environmental. Ms. Gilson has over 20 years of diverse civil engineering experience and is a registered Civil Engineer in multiple states including California, New York, and Texas. She has over seventeen years and 170 million square feet of electrical leak location survey experience. Her contribution to the field of electrical leak location includes over three dozen published technical papers, educational seminars, presentations world-wide, and chairing the ASTM task groups for the recent revisions and additions to the ASTM Standard Guides and Practices. Ms. Gilson is graduate of the University of California at Davis (M.S. Civil/Env Engineering) and University of Vermont (B.S. Civil/Env Engineering).

Larry Shilling – Mr. Shilling is a Regional Vice President with Casella Waste. He has over 18 years of landfill management experience. Mr. Shilling has successfully led the permitting, design and construction efforts for multiple solid waste facilities in New York State including Ontario County Landfill, Chemung County Landfill, Hyland Landfill and Hakes C&D Landfill. He is a SWANA Certified Landfill Manager and Certified NYS Landfill Operator.

Session 5: Landfill Energy Project (1.0 PDH)

When: Tuesday, September 28, 2021, 10:30 AM to 11:30 AM

Leveraging the RNG Potential of Small to Medium Landfills

Small to medium sized landfills offer an untapped potential for reducing Greenhouse Gas emissions and decarbonization. Waga Energy has developed a breakthrough technology to recover landfill gas into biomethane, also called Renewable Natural Gas (RNG), from landfills that produce smaller volumes of landfill gas. The WAGABOX® landfill gas upgrading units deliver high-quality biomethane, regardless of the quality of the raw biogas. The biomethane produced by the WAGABOX® can be injected directly into the gas grid or used as fuel for vehicles. Waga Energy builds, owns, operates, and maintains the WAGABOX® units under long-term contracts with landfill owners, and biomethane sales revenue is shared. This presentation will provide insight into developing RNG projects at small to medium sized landfills. Upon successful completion of the course, the learner will be able to:

- ◆ Identify potential projects where the RNG type systems, like WAGABOX®, can be applied.
- ◆ Define what the drivers are that enable project development on small to mid-size landfills.
- ◆ Explain what the best practices from development of RNG projects are.
- ◆ Understand methods to convert raw biogas into renewable natural gas.
- ◆ Understand the benefits of the patented cryogenic distillation process.

Speakers: Jason Pennypacker – Mr. Pennypacker is a Project Developer with WAGA Energy, Inc. He has over 15 years dedicated to the development and execution of various types of landfill gas to energy projects. Mr. Pennypacker is responsible for using his experience from over 20,000 scfm of RNG projects to introduce the US market to the next generation of renewable natural gas technology. Mr. Pennypacker is a licensed General Contractor in Georgia and is a certified Project Management Professional. He attended Texas A&M University (Bryan – College Station, TX).

Tanguy Largeau – Mr. Largeau is Business Development and Commercial Vice President with WAGA Energy, Inc. He has over 18 years experience in project management in the aerospace and marine industry. He is a graduate of Université de Technologie de Compiègne (UTC) (B.S. Mechanical Systems Engineering) and Universidade Federal de Pernambuco and the University of South Brittany.

2021 CONFERENCE and PAYMENT FORM

Registration

*Member**

*Non-Member***

By Sept. 10th
After Sept. 10th

\$225.00
 \$245.00

\$275.00
 \$295.00

**NYSASWM will honor discount to any SWANA (NY) or NYSAR³ member.*

***Includes NYSASWM membership for the remainder of 2021.*

Name: _____ Title: _____
(as you would like it to appear on your name badge)

Organization: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Phone: (_____) _____ Fax: (_____) _____

E-mail: _____

Check here to sign up for the St. Lawrence River Dinner Cruise

Number attending _____ 5:30 p.m. Monday, No cost. (Spouses are invited). Meet at the Hotel docks by 5:15 p.m. *See next page for description.*

Payment Method

My check for \$ _____ is enclosed *(Make check payable to: NYSASWM)*

VISA MasterCard American Express Municipal Voucher

Signature: _____

Name: _____
(exactly as it appears on card)

Card Billing Address: _____

City: _____ State: _____ Zip Code: _____

Card Number: _____

Expiration: Month: _____ Year: _____ Last three numbers on signature line: _____

Registration form and payment should be mailed, faxed or emailed to:

NYSASWM Fall Conference
c/o Jodi Tuttle
1600 Genesee Street, Utica, NY 13502
Email: jodit@ohswa.org
Phone: 315-733-1224 x 1200 Fax: 315-733-2305

**On-line Registration
Available Soon!
Check the website:
www.nysaswm.org**

Don't forget - call the Hotel at 315-686-1100 for your reservation and complete the enclosed NYSASWM registration form

HOTEL INFORMATION

NYSASWM has been offered special rates for this hotel: single occupancy is \$96 per night with a Riverside View upgrade fee of \$20.

To obtain these special rates, you must make reservations by **calling the hotel by Sunday, Sept 10, 2021**, and indicate that you are participating in the NYSASWM conference. NYSASWM has arranged for the registration of a block of rooms for both Sunday Sept. 26 and Monday Sept. 27, 2021, at the state per diem rates. If you have any questions, call the hotel at 315-686-1100.

All tax-exempt forms must be provided by the individual at the time of reservations. (Reservations are by telephone only.)

CRUISE INFORMATION

Join us for a relaxing 2 hour cruise on the St. Lawrence River, meandering among the beautiful islands on the St. Lawrence River during Autumn, when the region is burnished in fall colors, and later as the islands are cast in soft hues as the sun sets.

The route is captain's choice to show off various areas of the St. Lawrence River, including Boldt Castle. This relaxing tour will feature cocktails and dinner. Meet at the Harbor Hotel docks 15 minutes before the 5:30 p.m. departure time.

River Dinner Cruise Sponsored By:

Barton & Loguidice

Continuing Education Contact Hours

This conference will also offer contact hours for continuing education for the New York State Professional Engineers. A total of 7.5 Contact Hours will be available for this two day event.

Directions

From North:

From I-81 South, take Route 12 West towards Clayton. Turn right on Webb St. Head to end of street for hotel.

From South/I-90:

From I-90, take I-81 north to Watertown. Take exit #47 for Route 12 North (left) towards Clayton. In 20 miles, turn right onto State St., then .2 miles make a left on Webb St., head to end of street for hotel.

NYSASWM MEMBERSHIP BENEFITS



- ◆ Discount registration for the Spring Federation Solid Waste Conference and Exhibitor Show at the Sagamore Hotel in Lake George
- ◆ Discount registration for the Annual Fall NYSASWM Conference and Exhibitor Show
- ◆ Discount registration to March Training Program
- ◆ Subscription to the NYSASWM newsletter - Wasteline
- ◆ Track legislation on behalf of the membership and alert members to bills that may have an impact on their systems
- ◆ Scholarship Program with first consideration given to children of NYSASWM members
- ◆ Internship and research grant programs available
- ◆ Countless opportunities for networking and technology transfer as a member of the largest organization representing solid waste managers in New York State

JOIN NYSASWM TODAY

MEMBERSHIP APPLICATION

New York State Association for Solid Waste Management

Established 1975

Please complete the following:

Name _____ Title: _____

Company: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Phone: (____) _____ Fax: (____) _____

E-mail: _____

Check type of membership:

- Municipal, political subdivision or public benefit corporation
- Other professional

NOTE: Only municipal political subdivision or public benefit agency official members are entitled to vote. Dues are per person (not per company) and are in effect for the calendar year.

Please make check payable to: NYSASWM (dues are \$75.00 per person per calendar year) and mail to:

**New York State Association for Solid Waste Management
c/o NYSAC 540 Broadway, Suite 5, Albany, NY 12207**

Please note that while NYSASWM is a not-for-profit organization, membership dues are not tax deductible as a charitable contribution. To the extent permitted under the Internal Revenue Code, dues may be deducted as a business expense.