



# Strive for Sustainability

## Solid Waste & Recycling 'Virtual' Technical Program October 2020

Thursday, October 15, 2020

**FACILITATOR:** Luann Meyer, NY SWANA President

**10:15 – 10:30 a.m.**

### Welcome & NY Federation Update

Who is the NY Federation? (Bruce Howie, Chairperson, Federation of NY Solid Waste Associations)

**10:30 a.m. – Noon**

### COVID-19 Waste Industry Impacts

*Hear from these industry experts about the experiences their respective organizations faced with Covid-19 and how they overcame those challenges, surprises and maybe even a silver lining.*

*Moderator:* David Biderman, Solid Waste Association of North America, Silver Spring, MD

- Bridget Anderson, New York City Department of Sanitation, New York, NY
- Tim Langlois, Casella Waste Systems, Rutland, VT
- Alan Davis, Modern Disposal Services, Model City, NY

Sponsor Tech Talk: Barton & Loguidice, D.P.C.

**1:30 – 3:00 p.m.**

### PFAS Pathways (1.5 PDH)

*Upon successful completion of this course the learner will be able to:*

- *List and discuss the sources of PFAS in waste.*
- *Describe the methods for sampling and analyzing PFAS in solid waste materials.*
- *Describe the potential role of landfills in PFAS management.*
- *Recall what we know and do not know about PFAS exposure pathways and health/environmental impacts.*
- *Describe implications on PFAS management in municipal solid waste.*
- *List available treatment technologies for appropriate process selection.* *Moderator:* Rich Bills, Steuben County, Bath, NY
- PFAS Exposure Pathways: Current State of Knowledge on Health Impacts and Implications for Solid Waste Management (Bryan Staley, Environmental Research & Education Foundation, Raleigh, NC)
- SWANA PFAS Wiki (Arie P. Kremen, Ph.D., Tetra Tech, Metuchen, NJ; Ivan Cooper, P.E., BCEE, Civil & Environmental Consultants, Inc., Charlotte, NC; Bernie Rieder, Rochem Americas, Inc., Greensburg, PA)
- PFAS Study of Solid Waste Materials (Matthew Estabrooks & Stephen Zemba, Ph.D., Sanborn, Head & Associates, Inc., Burlington, VT)

### The course instructors are:

**Bryan Staley** – Mr. Staley is the President and Chief Executive Officer at the Environmental Research & Education Foundation where he is responsible for managing the development and oversight of ERF programs. He has been engaged with research projects since 1994 with his most recent research focused on PFAS. Mr. Staley received his Ph.D. in Civil Engineering from the North Carolina State University.

**Ivan Cooper, P.E., BCEE** - Mr. Cooper oversees water and wastewater consulting activities for landfill leachate, power and energy production facilities, pulp & paper, pharmaceuticals and medical waste, chemical manufacturing, primary metals production, and other industrial facilities. Mr. Cooper has detailed biological and physical chemical treatment experience, including both aerobic and anaerobic digestion of residuals, including gas collection, purification, and CHP (Combined Heat and Power projects). He has prepared several technical manuals for US EPA Technology Transfer program in Alternative Collection and Wastewater Treatment, and delivered over 50 seminars for US EPA on wastewater treatment issues. Mr. Cooper is the chair of the SWANA Landfill Leachate Technical Committee, past chair of the Residuals Management and Solid Waste sections of the TAPPI Environmental Division, member of the Water Environment Federation Industrial Wastewater Committee, past chair of the Disaster Preparedness Committee of the NC AWWA-WEA and past chair of the Industrial Wastewater Committee of the NC AWWA WEA.

**Arie P. Kremen, Ph.D.**, Dr. Kremen serves the New Jersey solid wastes industry and is the national lead for Tetra Tech's leachate treatment and management practice. Arie has over 25 years of experience in the environmental and solid waste industry, working in the US and overseas. He has a solid background in water resource engineering that includes beneficial reuse of reclaimed wastewaters and biological nutrient recovery. Arie works with owners and operators to reduce leachate generation, enhance collection, and to develop and implement cost effective treatment and disposal options considering site-specific options and conditions. Arie has excellent working relations with regulators, public and private sector clients. Arie has published peer reviewed articles and is a frequent presenter at regional and national conferences on various aspects of his work and related aspects.

**Matthew Estabrooks, P.E.** - Mr. Estabrooks has over 12 years of civil and environmental engineering experience. His experience includes environmental data collection and evaluation, remedial design and implementation, groundwater management permit compliance, air quality and solid waste compliance, and landfill construction quality assurance. Matthew has coordinated and managed over 50 projects throughout New England that required technical environmental engineering expertise. In addition, Matthew recently managed a study of per- and polyfluoralkyl substances (PFAS) sources and loadings to the New England Waste Services of Vermont Landfill in Coventry, Vermont. The study involved collecting samples from wastewater treatment facility (WWTF) sludge and other waste streams, analyzing the samples for 24 PFAS analytes, and interpreting and reporting the results.

**Stephen G. Zemba, PhD, P.E.** - Steve has more than two decades of experience assessing risks of environmental chemicals. His projects include fate-and-transport modeling, exposure assessment, and both human health and ecological risk assessments. He has consulted for both private and public sector clients, and provided expert testimony at hearings and in litigation support. Steve also teaches university-level courses on air quality management and air pollution control. He has presented projects and research at numerous conferences on topics including acid rain, dense gas plume dispersion, indoor air quality and dispersion modeling, ocean disposal of carbon dioxide, multi-pathway risk assessment, methods to estimate exposure point concentrations, vapor intrusion, landfill gas, and environmental applications of decision analysis methods.

Visit [www.nyfederation.org](http://www.nyfederation.org) for Registration information.



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## *Solid Waste & Recycling 'Virtual' Technical Program October 2020*

**Thursday, October 22, 2020**

**FACILITATOR:** Kelli Timbrook, NYSAR3 President

**10:15 – 10:30 a.m.**

### **NY Federation Affiliates: Who We Are?**

NYS Association for Reduction, Reuse and Recycling (Kelli Timbrook)

NYS Association for Solid Waste Management (Rich Bills)

SWANA, NYS Chapter (Luann Meyer)

**10:30 a.m. – Noon**

### **Addressing Struggling Recycling Markets in NYS**

*Moderator:* Bodhi Piedmont-Fleischmann, P.E., Tetra Tech, Middletown, NY

- Andrea D. Calarco, Casella Recycling, LLC, Clifton Park, NY
- Will Flower, Winters Bros. Waste Systems, West Babylon, NY
- Martin Bellew, Town of Islip, NY

**1:30 – 3:00 p.m.**

### **Understanding Odor and Ways to Cover It (1.5 PDH)**

*Upon successful completion of this course the learner will be able to:*

- *List and discuss alternative landfill cover system solutions that can help prevent odors as well as control surface emissions.*
- *Describe alternatives to traditional soil covers.*
- *Describe BMP's for odor control.*
- *List and discuss new innovative solutions for improved cover compliance.*

*Moderator:* Bill Rabbia, Oneida-Herkimer Solid Waste Authority, Utica, NY

- Posi-Shell: Multiple BMP's with 1 System (Ben Ventimiglia & Joel Lanz, LSC Environmental Products, Apalachin, NY)
- Case Study of How Alternative Covers Can Help Solve Operational Issues (Michael Casullo, GHD, Niagara Falls, NY & J. D. Mohr, EPI Environmental Products Inc., Lynden, WA)
- Geosynthetic Solutions to Control LFG Surface Emissions (Elliot Pugh, Wind Defender, Pottsville, PA & Stephan Fourmont, Afitex-Textel, Sainte-Marie, QC, Canada)

### **The course instructors are:**

**Joel Lanz** – Mr. Lanz is the President of LSC Environmental Products and has over 30 years with LSC. Joel is MOLO Certified and recently was awarded the 2020 MSW Management Legacy Award, honoring 30 professionals impacting the waste industry for the past 30 years.

**Ben Ventimiglia** – Mr. Ventimiglia is the Northeast Regional Manager for LSC Environmental Products. Ben maintains the NYS Landfill Operators Certification, General Mineral Miner Certification, and is MOLO Certified.

**Michael Casullo** - Michael is a Civil Engineering graduate of the State University of New York at Buffalo who joined GHD in 2011 working out of the Niagara Falls, NY office. Mike's professional experience is centered on the solid waste industry, having spent considerable time assisting landfill clients with air monitoring and reporting, troubleshooting regulatory compliance issues in the field, and assisting with the setup of monitoring programs at facilities throughout the Northeast. His experience also includes Title V permitting, reporting, and assisting facilities with combatting odor issues.

**Stephan Fourmont** – Mr. Fourmont has been with AFITEX-TEXEL since 2004. His most recent experience is in business development and technical sales for drainage geocomposites. Mr. Fourmont received his engineering degree in Geotechnical Engineering and his Master's degree in Civil Engineering and Physics. Mr. Fourmont is also a SWANA member.



# Strive for Sustainability

## Solid Waste & Recycling 'Virtual' Technical Program October 2020

Thursday, October 29, 2020

**FACILITATOR:** Rich Bills, NYSASWM President

**10:15 – 10:30 a.m.**

**2021 NY Federation Conference**

Russell Rutkowski, Conference Chair

**10:30 a.m. – Noon**

**Emerging Perspectives on Packaging EPR**

*Moderator:* Andrew Radin, OCRRA, North Syracuse, NY

- Garth Hickle, University of Minnesota, Minneapolis MN
- David Pearce, Canadian Stewardship Services Alliance, Toronto, ON, Canada
- Steve Changaris, National Waste and Recycling Association, Auburn, MA
- Dawn Timm, Niagara County, Lockport, NY
- Andrew Hackman, Ameripen, Union, ME

**1:30 – 3:00 p.m.**

**Trash Today, Power Tomorrow (1.5 PDH)**

*During this session, attendees will learn innovative solutions for recovering resources and generating renewable energy. Attendees will also gain a better understanding of the potential of Energy from Waste (EfW) in reducing greenhouse gas emissions. The session will cover a broad array of innovative findings in the EfW industry.*

*Moderator:* Kenneth Armellino, Covanta, Morristown, NJ

- Processing Food Waste Extracted from Mixed Waste at North America's Largest Facility (Deo Phagoo, Anaergia, Inc., Burlington, ON, Canada)
- Ash Reuse Initiatives (Rebecca Guardino, Covanta, Morristown, NJ)
- Greenhouse Gas Emissions Savings Associated with Waste-to-Energy Disposal of Municipal Solid Waste, Compared to Landfilling (John D. Atkinson, Michael Shelly & Mohsen Ghafari, State University of New York at Buffalo, Buffalo, NY)

**The course instructors are:**

**Deo Phagoo** – Mr. Phagoo is Senior Vice President at Anaergia, Inc. He received his Masters in Chemical Engineering from the University of Toronto.

**Rebecca Guardino** – Ms. Guardino is the Construction Material Application Engineer for Covanta in Morristown, NJ. She received her B.S. in Geology from James Madison University and her M.S. in Geology from Rutgers University.

**John D. Atkinson**, – Mr. Atkinson is an Associate Professor at the University at Buffalo (UB). Mr. Atkinson has his PhD in Environmental Engineering in Civil Engineering and has 36 publications. .