

National Residuals and Biosolids Conference
September 20-22, 2020
White Oaks Conference Centre

Suggested Topic Areas:

- Sustainable Strategies for Biosolids & Residuals Reuse
 - Short-term and long-term strategies... What are municipalities doing & planning?
 - Recent master plans from municipalities
 - What's your secret to keeping Biosolids & Residuals Reuse programs sustainable?
 - Is diversification the answer?
- Product Development
 - Market analysis
 - Branding, advertising – what works?
 - Integrating with others' agricultural standards (e.g. organic certification, Global G.A.P.)
 - What defines "quality"?
 - Addressing public perception of "quality."
 - Quality measures for Residuals (e.g. paper mill residuals)
- Communication
 - Key messages that you use within your Biosolids or Residuals management program.
 - Strategies for messaging to a variety of stakeholders.
 - Successful communication strategies
 - Branding biosolids
- Successful Biosolids & Residuals Operational Programs
 - Success stories.....
 - Papermill Residuals & Other Recyclable Residuals – what's being recycled?
 - Source separated organics programs?
 - Synergies in utilizing multiple residual sources.
- Managing Emerging Compounds
 - Addressing the ever-changing world of emerging compounds.
 - What has research shown us in the past 5 years?
 - PFAS/PFOA
 - Fate, exposure and bioavailability of emerging compounds in biosolids
 - Risk assessment
- Thickening and Dewatering mechanisms and optimization
 - Technologies and possible configurations
 - Sludge dewaterability (mesophilic, thermophilic, THP sludges, other characteristics)
 - Polymer optimization

- Co-digestion
 - Considerations for starting a co-digestion program
 - Getting to energy neutrality with co-digestion
 - Co-digestion with different residuals (manure, SSO, other)
 - Organic material characterization and biodegradability testing
 - Operational issues and concerns
- Anaerobic digestion
 - Digestibility
 - Mixing
 - Cleaning
 - Operational issues, e.g. struvite, vivianite
- Advanced digestion and THP
 - Post-aerobic digestion
 - Phased digestion
 - Operation and optimization of THP
 - Maybe VFA production
- Thermal processes
 - Drying and incineration
 - Design challenges and successes
 - Operation challenges and successes
- Odour Management
 - Dealing with the Regulatory Landscape
 - Tools for dealing with odours (treatment, adjuvants, in-field management)
 - Odour characterization from biosolids operations
 - Impact of treatment and storage on odour emissions
- Beneficial use of biogas
 - Opportunities and economical analysis
 - Cleaning technologies
 - Impact of wastewater operation on biogas production and quality
 - Lessons learned
- Resource Recovery
 - P recovery – modeling, technologies and impact on wastewater processes
 - N recovery – modeling, technologies and impact on wastewater processes
 - Biosolids & Residuals management after resource recovery ... managing what's left.
- Policy & Regulation of Biosolids & Residuals Recycling
 - Federal, provincial, state, & local
 - Where are policy & regulation headed?
 - Protecting beneficial uses?
- Our Carbon Footprint
 - Managing nutrients and organic carbon for more sustainable agricultural production
 - Greenhouse gas mitigation strategies
 - Best management practices for carbon sequestration

- Managing for Soil Health
 - Land use management strategies to improve soil quality
 - Soil health assessment metrics on biosolids and residuals amended soils.
 - Advanced land application of biosolids (GPS mapping, targeting nutrients precisely, etc.)