PNCWA Advanced Thermal Treatment of PFAS Webinar June 28, 2023, 10:00 AM- 12:00 PM

Presentation Title	Overview of Advanced Thermal Treatment	BFT Pyrolysis Unit Process Overview
Presenter	Micah Blate	Valentino Villa
Title	Associate	Bioforcetech Sustainable Biosolids Management System
Employer	Hazen and Sawyer	Bioforcetech Corporation
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Summary of	Presentation will include: (1) PFAS Overview (2) PFAS in the water	This presentation investigates one opportunity to reduce the environmental impact of
Lesson Content	cycle (3) Advanced thermal processing introduction and overview (4) process benefits (5) biochar production and uses.	biosolids by diverting it from landfill and creating a biochar product from it. The technology that will be used to illustrate the potential of this biosolids management option is, at the time of writing, the only full scale biosolids pyrolysis installation in the United States and is designed and distributed by Bioforcetech Corporation. Bioforcetech (BFT) has developed an innovative thermal processing system, consisting of a BioDrying and pyrolysis technology, for managing biosolids from Water Resource Recovery Facilities (WRRFs). BFT's BioDrying process harvests energy from a combination of natural microbial oxidation of the biosolids and heat recovered from the pyrolysis operation. The combination of BFT's BioDrying and pyrolysis operations provide for a biosolids management option with a low carbon footprint relative to existing options. The process may be energy neutral, reduces the mass of the biosolids and generates biochar that both sequesters carbon and improves soil health when used as a soil amendment.
Bio	Biosolids Lead, supporting the biosolids group regionally and nationally. Micah has supported utilities across the US and Canada with the process modeling and optimization, feasibility, planning,	Valentino Villa is the Co-Founder and Chief Operating Officer at Bioforcetech Corporation. He earned the status of an Italian professional designation for an industrial expert in the field of engineering that is recognized as an industrial engineer outside of italy. Since Co-founding Bioforcetech, Valentino and his team have been rethinking every step of biosolids management to prepare for a carbon free future. Valentino believes that Bioforcetech's biochar, OurCarbon™, is a resource, which is why he and his team are investing in research and development to expand the applications for biochar far beyond soil amendment. Valentino lives in California with his wife and two sons, Leonardo and Luca.

Anaergia Pyrolysis Unit Process Overview	Edmonds WWTP Gasification Case Study
Devon Barry	Dion Banks
Project Manager	Director of Sales, Marketing, & New Business
Anergia	Ecoremedy, LLC
4210 Service Rd, Burlington ON L7L 4x5, Canada	960 Penn Ave, Ste 400
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Anergia's high temperature pyrolysis process for PFAS	The evolution of Ecoremedy, LLC's gasification technology
destruction in Biosolids	and a review of Edmond's WWTP plant and developments to
	date.
Devon has nearly a decade of experience in pyrolysis process	Dion Banks serves as Director of Business Development,
desing and research, as well as plant design and commissioing	•
, , ,	two decades of international business experience to the
	Ecoremedy team. Dion endeavors to live a life of service,
	acting as a conduit for awareness, development, and
	empowerment. He completed his undergraduate studies at
	the University of Kentucky and earned a bachelor of arts in
	business management while serving in the U.S. Army. During
	his career in the military, Dion earned The Army
	Achievement Medal, The Army Commendation Medal, Good
	Conduct Medal, Southwest Asia Service Medal, Kuwait
	Liberation Medal – Saudi Arabia, and the Kuwait Liberation
	Medal – Kuwait.
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