SUMO Training Course



Dates – November 13st, 15th, 18th and 20th

Time - 10 AM to 2 PM EST

Venue - Online

Registration fee – 800 USD per person

Includes

- → A one-month SUMO license
- → A one-month Digital Twin license

To register email

→ <u>Tanush Wadhawan - Tanush@dynamita.com</u>



Program details

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Contact

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Name	Energy center	Unit
Plantwide electric power demand	257	kW
CHP unit power generation	142	kW
Plant electric energy consumption	6177	k₩h
Self sufficiency	55	%

Who will benefit?

Academics, Utilities and Consultants

Software familiarization

- → Learn how to use basic and advanced features and build process configurations
- → Dynamic simulation set-up, Data plotting, Scenario analysis

→ Full plant model calibration

- → Wastewater characterization
- → Activated sludge and biofilm systems
- → Nitrification-denitrification/Enhanced Biological Phosphorus removal
- → Predicting alpha factor for improved aeration design and modeling
- → Thermal hydrolysis, anaerobic digestion, and sidestream treatment
- Controllers: standard and ABAC, SRT control
- → Energy/Cost module (Plant power demand and self-sufficiency)
- → Greenhouse gases and Carbon footprint
- → Digital Twin for Process Improvement

MODELING	Time (EST)	November 13 st	November 15 th	November 18 th	November 20 th
Y PROCESS.	10:00 - 10:30	Introduction to SUMO and process modeling	Nitrification, denitrification	Clarifier modeling	Controllers introduction, setup, and application
o 	10:30 - 11:00	and process modeling			
	11:00 - 11:30	Setting up activated sludge plant for steady-state and dynamic simulation	Conventional versus Advanced digestion (Thermal hydrolysis),	Biological Phosphorus removal - model, application, and constraints	Chemical P - Iron and Alum
Z Interactive Training Course	11:30 - 12:00				
	12:00 - 12:30				
	12:30 - 1:00	Wastewater characterization - data collection, reconciliation, and	Sidestream treatment post aerobic digestion, deammonification	Aeration modeling - Diffuser versus mechanical, using aeration tool, alpha modeling	Biofilm modeling - fundamentals and advanced setup
	1:00 - 1:30				
	1:30 - 2:00	fractionation			