SUMO Training Course

dynamita
PROCESS MODELING

Dates – 13th and 14th February 2025
Time – 9 AM to 5 PM (13/02) and 8 AM to 4 PM (14/02)
Venue – Toulouse, France
Registration fee – 800€ per person

Includes

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

To register, email

- Katie Lancelot - info@dynamita.com

Program details

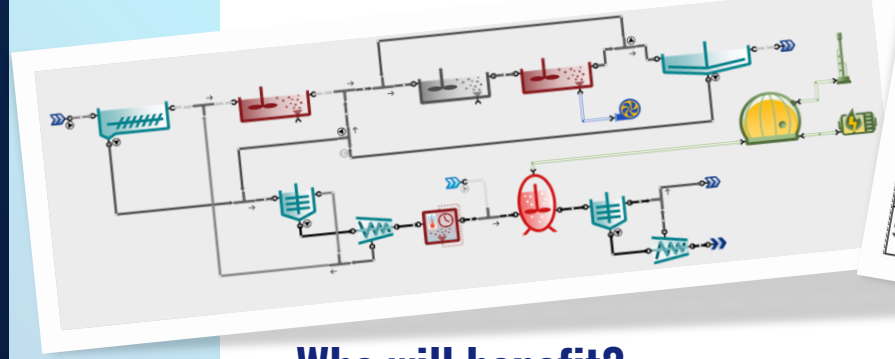
- next page

Contact

- www.dynamita.com
- for more information: info@dynamita.com

Modeling in Practice

in fundamentals and design applications



Name	Energy center	Unit
Plantwide electric power demand	262.9	kW
CHP unit power generation	159.0	kW
Plant electric energy consumption	6309	kWh
Self sufficiency	60.5	%

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
- Advanced topics:
  - Controllers: standard and ABAC, SRT control
  - Biofilm modeling
  - Chemical P removal

Time and Date	Thursday 13th February	Friday 14th February
08:00 am - 08:30 am		Biological Phosphorus removal - model, application, and constraints
08:30 am - 09:00 am		
09:00 am - 09:30 am	Personal introduction, program overview	Clarifier modeling
09:30 am - 10:00 am	Introduction to Sumo and process modeling	
10:00 am - 10:30 pm		*Coffee break*
10:30 am - 11:00 am	*Coffee break*	Solids line modelling Sidestream treatment: deammonification
11:00 am - 11:30 pm	Setting up activated sludge plant for steady-state and dynamic simulation	
11:30 am - 12:00 pm		
12:00 am - 12:30 am		*Lunch*
12:30 am - 01:00 pm	*Lunch*	
01:00 pm - 01:30 pm		Aeration: diffused vs mechanical, and alpha modeling
01:30 pm - 02:00 pm	Wastewater characterization: data collection, reconciliation, and fractionation	
02:00 pm - 02:30 pm		Automated Scenarios, Sensitivity and Optimization
02:30 pm - 03:00 pm		*Coffee break*
03:00 pm - 03:30 pm	*Coffee break*	Advanced topic overview (controllers, biofilm, chemical P removal)
03:30 pm - 04:00 pm	Nutrient removal: Nitrification, denitrification	
04:00 pm - 04:30 pm		
04:30 pm - 05:00 pm		