

SUMO Training Course

dynamita
PROCESS MODELING

Dates – 22nd and 23rd November 2024

Time – 9 AM to 5 PM

Venue – Brisbane, TBA

Registration fee – 900 AUD per person

Includes

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

To register, email

- ➔ Katie Lancelot - info@dynamita.com

Program details

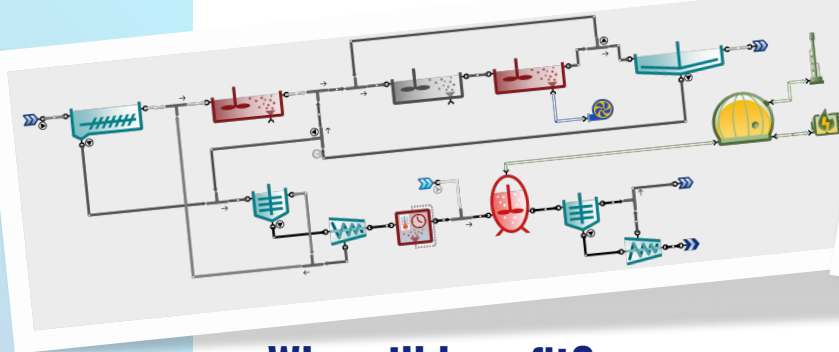
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Contact

- ➔ 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		
CHP unit power generation	262.9	kW
Plant electric energy consumption	159.0	kW
Self sufficiency	6309	kWh
	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	Friday 22 nd November	Saturday 23 rd November
09:00 am - 09:30 am	OPEN HOUSE SUMO24 functionalities: Analyze&Optimize	Nutrient removal: Nitrification, denitrification Biological Phosphorus removal
09:30 am - 10:00 am		
10:00 am - 10:30 pm		
10:30 am - 11:00 am	<i>Coffee break</i>	<i>Coffee break</i>
11:00 am - 11:30 am	Future development discussion, Q&A	Clarifier modeling
11:30 am - 12:00 pm		
12:00 pm - 01:00 pm	<i>Lunch</i>	<i>Lunch</i>
01:00 pm - 01:30 pm	TRAINING Introduction to SUMO and process modeling	Conventional versus Advanced digestion (Thermal hydrolysis) Sidestream treatment: deammonification
01:30 pm - 02:00 pm		
02:00 pm - 02:30 pm	Setting up activated sludge plant for steady-state and dynamic simulation	Aeration: diffused vs mechanical, and alpha modeling
02:30 pm - 03:00 pm		
03:00 pm - 03:30 pm		
03:30 pm - 04:00 pm	<i>Coffee break</i>	<i>Coffee break</i>
04:00 pm - 04:30 pm	Wastewater characterization: data collection, reconciliation and fractionation	Advanced topic overview (controllers, biofilm, chemical P removal)
04:30 pm - 05:00 pm		

FREE EVENT