

proBIOGAS International
Hands-On Biogas engineering and operating training with field trips
September 5-15, 2022

Venue: SHMT – Steinbeis House for Management and Technology
Filderhauptstr. 142, 70599 Stuttgart

Monday, September 5th – Practical Plant Engineering	
08:30	Registration
09:00	Welcome to the seminar, Introduction of the participants
09:30	Overview of the national and int. Biogas industry and its future development
10:30	Coffee break
10:45	Introduction into industrial biogas plant technology
12:15	Lunch
13:30	Decision criteria for a biogas plant
15:00	Coffee break
15:15	Planning and designing of stirring and mixing technology for digesters, mixing pits and storages
16:45	Discussion
17:00	End of the day

Tuesday, September 6th – Practical Plant Engineering	
09:00	Pretreatment and pre-storage technology
10:30	Coffee break
10:45	Biogas specific building materials
12:15	Lunch

13:30	Process and external heat and gas engineering
15:00	Coffee break
15:15	Building and operating a bio-waste and food waste plant
16:45	Discussion
17:00	End of the day

Wednesday, September 7th – Study Visits

08:15	Visit of an agricultural biogas plant using irrigation mixing and using solid manure and chicken manure
13:00	Lunch
14:30	Biogas to Biomethane upgrading <ul style="list-style-type: none"> • Biomethane Filling Station for garbage trucks • Bio-waste wet stream separation of contaminants esp. plastic particles
18:15	End of the day

Thursday, September 8th – Study Visits

08:15	Visit of a biogas plant with: <ul style="list-style-type: none"> - digestate upgrading and marketing - into single nutrients - manure digestion
12:30	Lunch
14:30	Solid Bio-Waste Dry fermentation plant with a connected composting facility
18:15	End of the day

Friday, September 9th – Practical Digester Biology

09:00	Digester Biology – an introduction
10:30	Coffee break
10:45	Crucial substrate parameters and their impact on plant performance
12:15	Lunch
13:30	Meet the challenge: How to digest fibrous and N-rich feedstocks
15:00	Coffee break
15:15	Safety features of biogas plants and equipment
16:45	Discussion
17:00	End of the day

Monday, September 12th – Practical Plant Operation

09:00	Process control and process optimization
10:30	Coffee break
10:45	Pumps and pump technology to increase energy efficiency
12:15	Lunch
13:30	Interactive group and field session – Necessary on site tests and practical interpretation of operating modes on a biogas plant
17:00	End of the day

Tuesday September 13th – Practical Plant Operation

09:00	Proper usage, management and upgrading of digestate as organic fertilizer in agriculture
10:30	Coffee break

10:45	Calculation exercises for feasibility and process control
12:15	Lunch
13:30	Measurement and data recording for optimization, stabilization and enhancement of the biogas process
14:30	Coffee break
14:45	Presentation of the different research activities and visit at the laboratories of the University of Hohenheim
15:45	Discussion

Wednesday September 14th –Green Gas, Bio-LNG & Biomethane Mobility

09:00	Green Gas and Bio-LNG production
10:30	Coffee break
10:45	15 years of Experience in Maintenance of biogas upgrading units for sustainable biomethane production
12:15	Lunch
13:30	CNG and LNG Mobility - optional visit of a food waste co-fermentation plant with biomethane upgrading
15:00	Handout of the certificates and end of the event - Optional Drive to Straubing, Bavaria

Thursday September 15th – Optional: Bavarian Biogas Fair, Straubing

	4. Bayerischer Biogas Branchentreff in Straubing, Bavaria
--	--

Program may be subject to change