

proBiogas International

Biogas Online Training

October 19th – November 4th, 2021

Tuesday, October 19th

Module 1 – Overview and Predictions for the Biogas Industry for 2030	
10:00	Introduction and collecting initial questions <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
11:00	Overview of the national and int. biogas industry and its future development <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
13:00	Discussion – end of the module

Module 2 – Decision Criteria and Feasibility Calculations	
15:00	Decision Criteria for Biogas Plants <i>Katrin KAYSER, IBBK Fachgruppe Biogas GmbH</i>
16:30	Feasibility Calculations <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
18:00	Discussion – end of the module

Thursday, October 21st

Module 3 – Technical Plant Design & Equipment Selection	
10:00	Introduction to plant technology – digester design & crucial equipment <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
11:00	Planning and designing of stirring and mixing technology for digesters, mixing pits and storages <i>Kay ROSTALSKI, Repowering Technik Ost GmbH / PTM</i>

12:00	Pumps and pump technology <i>Raam BADDE-MORGENTHALER, Pumpenfabrik Wangen GmbH</i>
13:00	Discussion – end of the module

Module 4 – Substrate Selection, Pre-treatment and Storage

15:00	Crucial substrate parameters and their impact on plant performance <i>Gunter PESTA</i>
16:00	Organic waste and fermentation technology – processes and biological stability <i>Bernhard NATTERER</i>
17:00	Pre-treatment and storage of biogas substrates <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
18:00	Discussion – end of the module

Tuesday, October 26th

Module 5 – Theory & Practice of Digester Biology in AD

10:00	Introduction to Digester Biology <i>Dr. Andreas LEMMER, University of Hohenheim</i>
11:30	Biogas plant start-up – Practical Digester Biology <i>Birgit PFEIFER, Schaumann BioEnergy Consult GmbH</i>
13:00	Discussion – end of the module

Module 6 – Building Materials for Biogas Plants

15:00	Biogas specific building materials for sustainable plant operation <i>Erwin KÖBERLE, Biogaskontor Köberle GmbH</i>
16:30	Process and external heat and gas engineering <i>Erwin KÖBERLE, Biogaskontor Köberle GmbH</i>
18:00	Discussion – end of the module

Thursday, October 28th

Module 7 – Process Control of Biogas Plants	
10:00	Process control and process optimization <i>Melanie HECHT, Schaumann BioEnergy Consult GmbH, Pinneberg, Germany</i>
11:30	Practical Presentation – necessary on site tests and interpretation of operating modes on a biogas plant <i>Birgit PFEIFER, Schaumann BioEnergy Consult GmbH, Pinneberg, Germany</i>
13:00	Discussion – end of the module

Module 8 – Digestate Treatment, Upgrading & Marketing	
15:00	Proper usage of digestate as organic fertilizer in agriculture <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
16:30	Virtual tour through a state of the art biogas & digestate upgrading plant <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
17:00	The NuTriSep-Process for digestate utilisation <i>Fabian GELTZ, Geltz Umwelttechnologie GmbH</i>
18:00	Discussion – end of the module

Tuesday, November 2nd

Module 9 – Safety Features & Monitoring	
10:00	Safety Features of Biogas Plants: Theory & Practice <i>Katrin KAYSER, IBBK Fachgruppe Biogas GmbH</i>
11:30	Measurement and data recording for optimization, stabilization and enhancement of the biogas process <i>Philipp RÖHRER, Awite Bioenergie GmbH</i>
13:00	Discussion – end of the module

Module 10 – Biogas Upgrading, Utilisation & Biomethane Infrastructure

15:00	Biogas in Germany: current technological status of biogas upgrading <i>Michael BEIL, Fraunhofer IEE</i>
16:30	Gas infrastructure and biogas utilisation to heat and power <i>Lucas GESENHUES, 2G Energietechnik GmbH</i>
18:00	Discussion – end of the module

Thursday, November 4th

Module 11 – Green Gas, Bio-LNG & Biomethane Mobility

10:00	Green Gas and Bio-LNG <i>Alexey MOZGOVOY, PlanET Biogastechnik GmbH</i>
11:30	Biomethane as a transport fuel <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
13:00	Discussion – end of the module

Module 12 – Q&A-Session

15:00	Q&A-Session with IBBK's Biogas Experts <i>Michael KÖTTNER & Katrin KAYSER, IBBK Fachgruppe Biogas GmbH</i>
18:00	Discussion – end of the module

Program subject to change