

1st North American Online Biogas Training

June 22nd – 26th, 2020

Monday, June 22nd – Practical Plant Operation	
08:00	Welcome to the training – introductory round <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
08:30	Overview of the Canadian biogas industry <i>Jennifer GREEN, Canadian Biogas Association</i>
09:00	Plant technology & Substrate – Selection, Pretreatment and Pre-Storage <ul style="list-style-type: none"> • Ensilaging and pre-storage technology • Purpose and designing of mixing pit and hydrolysis phase • Pretreatment of difficult substrates • Dealing with high fibre and high nitrogen content <i>Michael KÖTTNER, IBBK Fachgruppe Biogas GmbH</i>
10:30	Break
10:45	Introduction to Digester Biology <ul style="list-style-type: none"> • Basics of biological degradation • Environmental conditions (pH, temperature, nutrients) • Engineering parameters (dry matter, organic loading rate, retention time, degradation rate) <i>Dr. Melanie HECHT, Schaumann BioEnergy Consult GmbH, Pinneberg</i>
11:30	Discussion – end of the day

Tuesday, June 23rd – Practical Plant Operation	
08:00	Process control and process optimization <ul style="list-style-type: none"> • Inhibitors in anaerobic processes • Additives (trace elements, enzymes, sulfur binders, buffer) • Process control measures <i>Dr. Melanie HECHT, Schaumann BioEnergy Consult GmbH, Pinneberg</i>

10:00	Break
10:15	Measurement and data recording for optimization, stabilization and enhancement of the biogas process <ul style="list-style-type: none"> • Gas analysis related to the metabolic pathway • Application area for gas analysis devices • Application of further measured variables, controlling and supervisory control <i>Philipp RÖHRER, Awite Bioenergie GmbH</i>
11:15	Discussion – end of the day

Wednesday, June 24th – Practical Plant Operation

08:00	Safety features of biogas plants and equipment <i>Katrin KAYSER, IBBK Fachgruppe Biogas GmbH</i>
09:30	Break
9:45	Day to day maintenance <ul style="list-style-type: none"> • Duties of the operator • Data recording • General maintenance • Minor repairs • Digestion biology with control instruments and feeding management <i>Erwin KÖBERLE, Biogaskontor Köberle GmbH, Obermarchtal</i>
10:30	Break
10:45	Biogas desulphurization <ul style="list-style-type: none"> • Reasons for sulphur content in biogas • Introduction into cleaning technologies • Critical values <i>Claus BOGENRIEDER, Züblin Umwelttechnik GmbH</i>
11:30	Discussion – end of the day



Thursday, June 25th – What’s Working now in North America

08:00	Biogas Plant Case Study – Finsterwalder Umwelttechnik GmbH <i>Bernhard NATTERER, Finsterwalder Umwelttechnik GmbH</i>
09:00	Biogas Plant Case Study – Bioenergy Concept <i>Christoph EUSTERBROCK, Bioenergy Concept GmbH</i>
09:50	Break
10:00	Biogas Plant Case Study – PlanET <i>Nils HIRSCH, PlanET Biogas Solutions</i>
11:00	Using Predictive Analytics to De-Risk Biogas Projects <i>Robert DiDIODATO, Jenna MILLER, Anessa Biogas Software, Canada</i>
11:30	Discussion – end of the day

Friday, June 26th – Q&A / Consulting Sessions

08:00 – 11:30	Ask your questions on specific presentations, get a personalized consultation, or be a “fly on the wall” during the questions of other participants <i>IBBK’s Senior Biogas Experts Michael Köttner & Katrin Kayser</i>
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Preliminary program – subject to change.