



АККОРД ЛТД



Ukrainian Training Center for Biogas Technologies

The training program "BIOGAZ Intensive"
27.05.2019 — 29.05.2019
National Academy of Sciences of Ukraine
Kiev, st. Vladimirskaya, 55

Instructors:

Michael Köttner (MK), International Biogas and Bioenergy, Germany
Dr. Udo Hölker (UH), Bonalytics, Germany
Yuri Epstein, Accord LTD, Ukraine

Training Method: Interactive classes with active participation
listeners (questions, answers, comments)

Monday May 27, 2019

9:00 — 9:30	Registration	
9:30 — 11:00	The opening of the training. Presentation of experts and participants. Questions, wishes, comments	Accord, IBBK
11:00 — 11:30	Coffee pause	
11:30 — 13:00	Basics of biogas energy: <ul style="list-style-type: none">- Terminology- Biogas composition- Technology Overview- Wet and dry fermentation- 1 and 2-stage technology	MK

11:30 — 13:00	<p>The main engineering parameters in the design of biogas complexes:</p> <ul style="list-style-type: none"> - Introduction to the biology of anaerobic fermentation - Factors of successful processes - Temperature, hydraulic holding time, organic load - Management experience of 8,000 agricultural BC - Operational control at startup and current operation 	MK
13:00 — 14:00	Dinner	
14:00 — 15:00	<p>The impact of design on the management of BC:</p> <ul style="list-style-type: none"> - Examples of calculating the output of biogas - Examples from practice - Structure of operating expenses - The right choice of technology - Safety rules 	MK
15:00 — 15:30	Coffee pause	
15:30 — 17:00	<p>Co-fermentation of agricultural substrates:</p> <ul style="list-style-type: none"> - Questions of participants - Recipes for effective management of BC - The optimal ratio of substrates 	UH MK

Tuesday May 28, 2019

9:00 — 10:30	<p>Control and optimization of biochemical processes:</p> <ul style="list-style-type: none"> - Anaerobic inhibitors - Effects of additives (trace elements, enzymes, sulfur stabilizers, buffers) - Methods of control, biochemical processes - Interpretation of analytical data 	UH
10:30 — 11:00	Coffee pause	

11:00 — 12:30	<p style="text-align: center;">The choice of substrates for biogas complexes their advantages and disadvantages:</p> <ul style="list-style-type: none"> - Methods for loading different substrates - Biogas output from different substrates - Inhibitors and foreign inclusions 	MK
12:30 — 13:30	Dinner	
13:30 — 15:00	<p style="text-align: center;">Optimization of work of biogas complexes:</p> <ul style="list-style-type: none"> - Mono-substrates silage corn, sugar beet pulp, chicken dung - Foaming and methods of its prevention - Effects of particle size and method preparation for biochemical substrate processes and equipment operation - Preliminary preparation and storage of a silo - Desulphation and gas cleaning - Examples from practice 	UH
15:00 — 15:30	Coffee pause	
15:30 — 17:00	<p style="text-align: center;">Group work, exchange of experience</p> <ul style="list-style-type: none"> - Experience of using different substrates by training participants - The perfect composition of substrates for maximum biogas production - Operational management BC - The content of biomethane in biogas - Discussion 	UH

Wednesday May 29, 2019

8:30 — 12:30	A trip to the existing biogas complex: - Discussion of issues and analysis of current work - Discussion of existing problems - Safety	IBBK Accord
12:30 — 13:00	Discussion, debriefing, presentation certificates	
13:00 — 14:30	Dinner	
14:30 — 16:30	Return to Kiev	

*Minor changes are possible in the program.

To participate in the training you should register [HERE](#)

Cost of participation in the training - 800 €.

The cost of participation does not include air travel, accommodation and transfer.

In case of refusal or inability to participate in the training, the money will not be returned.