

Conditions of participation

Registration is required in writing per fax or e-mail. The organizer reserves the right to cancel the event for any unforeseeable reason. After receiving your complete registration, the invoice will be issued via email by IBBK Fachgruppe Biogas GmbH without charging VAT. Written cancellations are possible **before May 1st, 2017** for an administration charge of 250 EUR. After **May 1st, 2017** cancellations are billed in full. In case of cancellations even in case of illness we gladly accept a substitute participant. The number of participants is limited, therefore a timely registration is recommended. Payment is due in full at the time of registration. Full payment is mandatory for event attendance.

The complete price for the seminar is € 790,-

INCLUDED are:

- Seminar-CD
- Beverages during the seminar
- Lunch with beverages

NOT INCLUDED are:

- Travel to the seminar venue
- Accommodation
- Further meals and beverages

Registration form (please provide billing address)

2nd Agro-industrial Biogas Training Seminar, Kuala Lumpur, 15th – 16th May 2017

Family name: _____ First name: _____

Company/ Institution: _____

Street: _____

ZIP Code: _____ City: _____ Country: _____

Tel: _____ Fax: _____

E-Mail: _____ Website: _____

Date: _____ Signature:*

* With my signature I agree: 1) that my email address will be published in the participants list (only available for participants, speakers and visited plant operators) and 2) that the photos, videos and audio recordings made during the course can be used to advertise upcoming events.

Fax to:

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2nd Agro-industrial Biogas Training Seminar



JW Marriott Hotel
Kuala Lumpur, Malaysia

May 15 – 16, 2017

The International Biogas and Bioenergy Center of Competence IBBK is delighted to invite you to the second edition Biogas Training Seminar for the South Asia Region, taking place in Kuala Lumpur, Malaysia in conjunction with the BIOGAS ASIA PACIFIC FORUM 2017 (17 – 19 May 2017).

Together with our partner AEG, All Events Group, the organizer of the BIOGAS ASIA PACIFIC FORUM 2017 (17 – 19 May 2017) we invite farmers, plantation owners, project developers, consultants, investors and the banking sector to participate in the biogas training seminar to be held on 15 & 16 May 2017.

The training will focus on practical biogas plant operation and maintenance, quality features and case studies to learn optimal measures of biogas production from biomass waste. The course will be facilitated by experienced speakers from IBBK, an internationally renowned German-based training institute.

Speakers include:

Mr. Juan Jose Gill, BIOTEC International Asia, Malaysia
Mr. Michael Köttner, Senior Biogas Expert, IBBK, Germany

Teaching Method

Interactive classroom teaching with all experts available for comments, questions and answers. This includes active involvement of all participants and practical exercises.

Program (may be subject to change)

Day 1

Monday, May 15th, 2017

- 9:00 – 12:30 am Part 1: Welcome to the seminar
- Introduction of the seminar participants and experts
 - Expectations from the seminar
 - Collection of the first questions
- Part 2: Status quo of the biogas sector development in South-East Asia as well as the way forward
- Potentials and prospects
 - Status of waste legislation
 - Economic framework conditions
 - Data for waste arising and composition
- 10.30 – 11.00 am Coffee Break
- Part 3: Development of the biogas technology in Germany and Europe
- Potentials and prospects
 - Status of waste legislation
 - Economic framework conditions
 - Data for waste arising and composition
- Part 4: General introduction into biogas technology
- Definitions
 - Biogas composition
 - Technology overview and its main applications
 - Wet and dry fermentation plants
- 12.30 – 1.30 Lunch
- 1:30 – 5.00 pm Part 5: Introduction into process parameters and digester biology
- Basic principles of process technology
 - Temperature, retention time, organic loading rate
 - Operating experiences from 8000 agro-industrial biogas plants
 - Conditions for the generation of biogas,
 - Operating parameters
 - Process monitoring and task management
 - Process disturbances and failures
- 3:00 – 3.30 pm Coffee Break
- Part 6: Operating experiences with agro-industrial and municipal biogas plants
- Wet and dry fermentation plants
 - Bio-waste digestion
 - Agricultural biogas plants
 - Treatment of industrial effluents
 - Experiences with investment and operation
- Part 7: Choosing the best components for a biogas plant for smooth operation
- Digester types and installation technology
 - Process and feed in technology
 - Developments and adaptations of the technology to suit the local circumstances in South-East Asia.

Day 2

Tuesday, May 16th, 2017

- 9:00 – 12:30 am Part 1: Most suitable substrates which can be used in biogas plants and their advantages and disadvantages
- Input substrates: POME, agricultural slurries, industrial and communal organic residues
 - Gas yields from POME, residue material and industrial wastes
 - Solid wastes (empty fruit bunches) as a feedstock for biogas plants
 - Pollutants and contraries in solid bio-waste
- 10.30 – 11.00 am Coffee Break
- Part 2: Practical calculations for the improvement of a biogas process with different substrates
- Examples of biogas calculations/gas generation
 - Experiences from a field study in Indonesia
 - Costs structure of equipment and services
 - Key parameters for business plan development
 - Appropriate technology assessment
- Part 3: Interactive operators session for wet and dry fermentation technology
- Retention time
 - Organic loading rate
 - Sizes of containers and tanks
 - Nutrient composition
 - Electricity and heat production
 - Efficiency factors of gas utilization
 - Discussion of the results
- 12.30 – 1.30 Lunch
- 1:30 – 5:00 pm Part 4: Operating experiences with biogas plants under South-East Asian conditions
- Market challenges
 - Legal, administrative and technical obstacles
 - Experiences with technology and operation
 - Operation of POME fed biogas plants
- 3.30 – 4 pm Coffee Break
- Part 5: Biogas upgrading technologies for the use as vehicle fuel and grid injection
- Basic principles of gas upgrading
 - Technology options
 - Biomethane pathways of utilisation
- Part 6: Proper usage of digestate as organic fertilizer in agriculture
- Environmental aspects
 - Application of digestate
 - Digestate processing
 - Treatment costs-profitability
 - Experiences with digested POME sludge as fertilizer