

# BOOGAS

## ASIA PACIFIC FORUM 2018

DEVELOPMENT OF INTER-REGIONAL BIOGAS DEVELOPMENT COOPERATION  
AND CAPACITY BUILDING TO ACCELERATE BIOGAS DEVELOPMENT



16 - 19 April 2018 • Sunway Putra Hotel

Kuala Lumpur, Malaysia

### Exhibitors



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## OPPORTUNITIES FOR BIOGAS IN ASIA



### WHY ASIA?

5x BIOMASS GROWTH

LARGE AGRICULTURE AND AGRICULTURAL PROCESSING SECTOR

LOTS OF WASTE  
LOW RECYCLING RATES

### OPPORTUNITIES



Sustainability Requirements from Buyers  
(Eg. RSPO)



More Political Pressure to Act



Carbon Emission Reduction Requirements  
(Eg. Carbon Tax in Singapore)



Large Energy Demand - Supply Gap



Greater Public Awareness

### CHALLENGES



Unclear Government Direction  
(Unstable FIT Environment)



Greater Education Needed



Safety & Bad Practices

### FOCUS INDUSTRIES

PALM OIL

WASTE WATER

AGRICULTURE &  
ANIMAL HUSBANDRY

MUNICIPAL  
SOLID WASTE

FOOD  
PROCESSING

## AGENDA

TRAINING BY IBBK

16 - 17 April 2018

APBA MEETING

17 April 2018

CONFERENCE

18 - 19 April 2018

### TRAINING DAY ONE - 16 APRIL 2018

08:30 Registration

09:00 **Part 1: Welcome to the Seminar**

- Introduction of the seminar participants and experts
- Expectations from the seminar
- Collection of the first questions

09:30 **Part 2: 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

10:30 Networking Coffee Break

11:00 **Part 3: Operation and maintenance is the stumbling block in the biogas industry in SEA. How to make it better?**

- Market challenges - legal, administrative and technical obstacles
- Experiences with technology and operation
- Operation of POME fed biogas plants

12:30 Networking Lunch

13:30 **Part 4: General introduction into biogas technology**

- Definitions & biogas composition
- Technology overview and its main applications
- Wet and dry fermentation plants

15:00 Networking Coffee Break

15:30

**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

16:15

**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

17:00

End of Training Day One

## AGENDA

### TRAINING DAY TWO - 17 APRIL 2018

09:00 **Part 1: 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

**Part 2: Most suitable substrates which can be used in biogas plants and their advantages & 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 Networking Coffee Break

11:00 **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 Networking Lunch

13:30 **Part 4: Models of biodigesters**

**LAGOON AND TANK-BASED DIGESTERS ARE NOT DIFFERENT MODELS BUT DIFFERENT VESSELS**

14:00 **Part 5: Energy crops in tropical countries**

**ENERGY CROPS FOR DECENTRALIZED BIOGAS AND ELECTRICITY PRODUCTION: THE NEXT BIOFUEL AFTER BIOETHANOL AND BIODIESEL WITH A HIGH IMPACT ON RURAL DEVELOPMENT**

15:00 Networking Coffee Break

15:30 **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

17:00 End of Training Day Two

## AGENDA

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APBA MEETING

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CONFERENCE

18 - 19 April 2018

### CONFERENCE DAY ONE - 18 APRIL 2018

08:30 Registration and Morning Coffee

09:00 Opening Address:

*President*

**ASIA PACIFIC BIOGAS ALLIANCE**

09:15 Welcome Address:

*Guest of Honor*

09:30 **OPPORTUNITIES AND PROGRESS IN MALAYSIA'S BIOGAS MARKET**

*Invited*

**BIOECONOMY CORPORATION OF MALAYSIA**

10:00 **THE FUTURE OF BIOGAS IN THE PALM OIL INDUSTRY: WHY WE NEED METHANE CAPTURE**

*Invited*

**MPOB**

10:30 Networking Coffee Break

#### Simultaneous Commercial & Technical Session

11:00 Commercial:  
**UPDATES ON BIOGAS DEVELOPMENT IN INDONESIA: CAN BIOGAS STILL GROW WITHOUT A VIABLE FIT POLICY?**

Technical:

**IDENTIFYING OPPORTUNITIES TO MANAGE PALM OIL MILL EFFLUENT (POME): THE CASE OF INDONESIA**

Lorenzo Sani

*Sustainable Energy Engineering*

**ROYAL INSTITUTE OF TECHNOLOGY - KTH**

11:30 Commercial:  
**UPDATES ON MALAYSIA'S FIT ENVIRONMENT FOR BIOGAS TO POWER PROJECTS**

Technical:

*Technical Papers on Pre-Treatment*

12:00 Commercial:  
**THE CHALLENGES FOR DEVELOPMENT OF LIVESTOCK BASED BIOGAS PLANTS IN MALAYSIA**

Technical:

*Technical Papers on Pre-Treatment*

12:30 Networking Lunch

14:00 Commercial:  
**OPPORTUNITIES IN BIOMETHANE GROWTH IN THAILAND'S CBG MARKET**

Technical:

**BIOGAS ENHANCEMENT BY MORINGA OLEIFERA CO-DIGESTION**

Prof Ir Chong Mei Fong

*Deputy Director of Centre for Sustainable Palm Oil Research (CESPOR)*

**UNIVERSITY OF NOTTINGHAM, MALAYSIA CAMPUS**

14:30 Commercial:  
**CASE STUDY: LEARNING FROM GERMANY'S BIOMETHANE TO GRID PROJECTS**

Technical:

**DEVELOPMENT OF ADAPTIVE NEURAL FUZZY INFERENCE SYSTEM (ANFIS) FOR OUTPUT PREDICTION FROM ANAEROBIC DIGESTION OF PALM OIL MILL EFFLUENT (POME) UNDER THERMOPHILIC CONDITION**

Dr. Poh Phaik Eong

*Associate Head of School (Graduate Research) in School of Engineering*

**MONASH UNIVERSITY MALAYSIA**

15:00 Commercial:  
**OFFGRID UTILIZATION OF BIOMETHANE: USING CBG FOR YOUR FLEET TO SAVE COSTS AND DRIVE EFFICIENCY**

Technical:

*Technical Papers on Anaerobic Digestion*

15:30 Networking Coffee Break

16:00 Commercial:  
**OPTIONS FOR BIOMETHANE TRANSPORTATION AND UTILIZATION**

Technical:

*Technical Papers on H2S Removal and Treatment*

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## AGENDA

### CONFERENCE DAY ONE - 18 APRIL 2018

- 16:30 Commercial:  
**BIOGAS BRANDING: IMPROVING COMMUNICATIONS WITH STAKEHOLDERS TO INCREASE ENGAGEMENT**
- Technical:  
*Technical Papers on H<sub>2</sub>S Removal and Treatment*
- 17:00 Commercial:  
**CO-GENERATION TO IMPROVE RETURNS ON INVESTMENT IN BIOGAS**
- Technical:  
*Technical Papers on H<sub>2</sub>S Removal and Treatment*
- 17:30 End of Conference Day One

## AGENDA

### CONFERENCE DAY TWO - 19 APRIL 2018

08:30 Registration

09:00 Opening Panel Discussion:  
**ACCELERATING THE PACE OF BIOGAS  
DEVELOPMENT IN ASIA THROUGH POLICY**

*Moderated by:*

Des Godson  
CEO

**ASIA BIOGAS GROUP**

*Panelists:*

**MALAYSIA  
THAILAND  
CAMBODIA  
MYANMAR  
CHINA  
INDONESIA  
PHILIPPINES**

10:30 Networking Coffee Break

### Simultaneous Commercial & Technical Session

11:00 Commercial:  
**TAPPING CHINA'S ONE BELT ONE ROAD INITIATIVE  
FOR BIOGAS PROJECTS IN S.E. ASIA**

Technical:  
*Technical Papers on Biogas Process Control and  
Management*

11:30 Commercial:  
**DEVELOPING PHILIPPINES'S BIOGAS POTENTIAL  
THROUGH MUNICIPAL SOLID WASTE PROJECTS**

Technical:  
*Technical Papers on Biogas Process Control and  
Management*

12:00 Commercial:  
**DEVELOPING BIOGAS WITH MALAYSIA'S LANDFILLS  
- CHALLENGES AND OPPORTUNITIES**

Technical:  
*Technical Papers on Biogas Process Control and  
Management*

12:30 Networking Lunch

14:00 Commercial:  
**INNOVATIVE FEEDSTOCK STRATEGIES TO DEVELOP  
SCALE FOR THE AGRICULTURE INDUSTRY**

Technical:  
**BIOGAS APPLICATION: SAFETY ASPECTS AND  
STANDARDS WITH AGRICULTURAL BIOGAS PLANTS**

Dipl.-Ing. Erwin Köberle  
Director

**BIOGASKONTOR KÖBERLE GMBH**

14:30 Commercial:  
**HOW BIOGAS CAN ADD VALUE TO THE FOOD  
PROCESSING INDUSTRY**

Technical:  
*Technical Papers on Bio-Fertiliser Production and  
Management*

15:00 Commercial:  
**CAPABILITY DEVELOPMENT FOR THE BIOGAS  
INDUSTRY IN PRODUCING FUNDING PROPOSALS**

Technical:  
*Technical Papers on Bio-Fertiliser Production and  
Management*

15:30 Networking Coffee Break

16:00 Closing Panel Discussion:  
**THE FUTURE OF BIOGAS IN THE REGION: GREATER  
COOPERATION ON A REGIONAL LEVEL FOR BIOGAS  
DEVELOPMENT**

17:30 End of Conference Day Two

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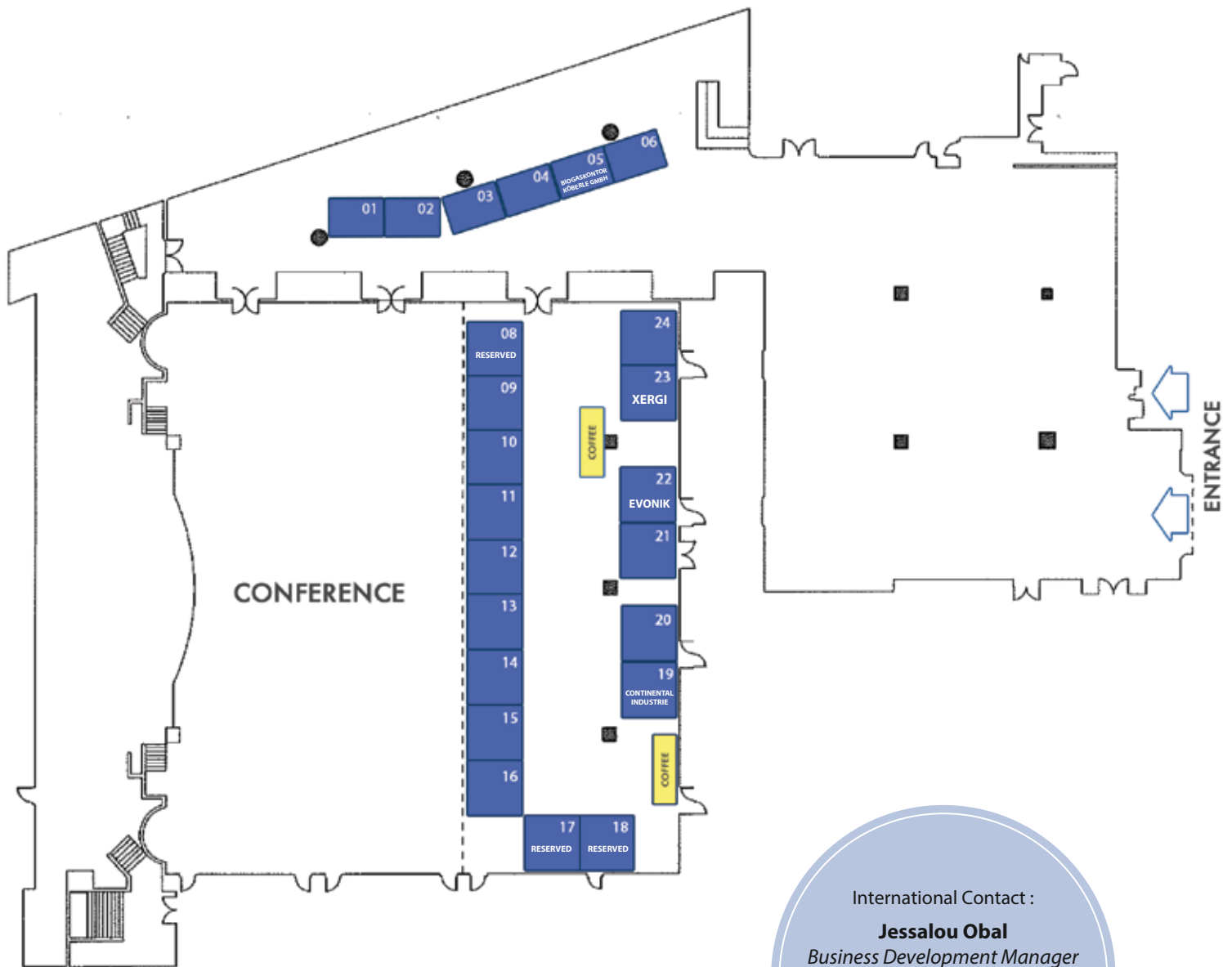
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## FLOORPLAN



International Contact :

**Jessalou Obal**  
Business Development Manager  
**ICESN**

Email: [jessalou@icesn.com](mailto:jessalou@icesn.com)

Phone: +65 6506 0954

Fax: +65 6749 7293



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### REGISTRATION

|  |   |  |   |
|--|---|--|---|
| <p><b>CORPORATE</b></p> <p>Associate Package</p> <p><b>• Features •</b></p> <ul style="list-style-type: none"><li>3x conference passes</li><li>Choose one:<ul style="list-style-type: none"><li>A4 advertisement in the Conference Booklet</li><li>Biogas Online Portal advertisement</li><li>6 sqm Exhibition Booth</li></ul></li><li>Standard online Biogas Directory listing</li><li>Access to resources (country reports, case studies, articles, and post show reports)</li></ul> <p><b>USD 2,999</b></p> | <p><b>CORPORATE</b></p> <p>Regular Package</p> <p><b>• Features •</b></p> <ul style="list-style-type: none"><li>5x conference passes</li><li>9 sqm standard shell scheme exhibition booth</li><li>Standard online Biogas Directory Listing</li><li>Access to resources (country reports, case studies, articles, post show reports, and database)</li><li>Pre-scheduled private meetings with 3 potential clients</li></ul> <p><b>USD 5,999</b></p> | <p><b>CORPORATE</b></p> <p>Premium Package</p> <p><b>• Features •</b></p> <ul style="list-style-type: none"><li>7x conference passes</li><li>9 sqm booth + 30 min speaking slot</li><li>Biogas Online Portal &amp; booklet advertisement*</li><li>Standard online Biogas Directory Listing</li><li>1x annual company-featured new in the portal</li><li>Access to resources (country reports, case studies, articles, post show reports, and database)</li><li>Pre-scheduled private meetings with 6 potential clients</li></ul> <p><b>USD 9,999</b></p> | <p><b>CORPORATE</b></p> <p>Elite Package</p> <p><b>• Features •</b></p> <ul style="list-style-type: none"><li>10x conference passes</li><li>18 sqm booth + 30 min speaking slot</li><li>Biogas Online Portal &amp; booklet advertisement*</li><li>Premium online Biogas Directory Listing</li><li>3x annual company-featured new in the portal</li><li>Access to resources (country reports, case studies, articles, post show reports, and database)</li><li>Pre-scheduled private meetings with 10 potential clients</li></ul> <p><b>USD 19,999</b></p> |
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| <p><b>INDIVIDUAL</b></p> <p>Individual Package</p> <p><b>• Features •</b></p> <ul style="list-style-type: none"><li>2x conference passes</li><li>Lunch &amp; refreshments</li><li>Access to resources (country reports, case studies, articles, post show reports, and database)</li></ul> <p><b>USD 699</b></p> |
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| <p><b>TRAINING</b></p> <p>2-Day Training Fee</p> <p><b>USD 1000</b></p> |
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### REGISTRATION FORM

- |   |            |
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| <input type="radio"/> Corporate - Associate Package | USD 2,999  |
| <input type="radio"/> Corporate - Regular Package   | USD 5,999  |
| <input type="radio"/> Corporate - Premium Package   | USD 9,999  |
| <input type="radio"/> Corporate - Elite Package     | USD 19,999 |
| <input type="radio"/> Individual Package            | USD 699    |
| <input type="radio"/> 2-Days Training               | USD 1000   |

Company Name: \_\_\_\_\_

Contact Name (Mr/Ms/Mrs/Dr/Prof): \_\_\_\_\_

Job Title: \_\_\_\_\_

Contact Address: \_\_\_\_\_

Billing Address: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

### PAYMENT METHODS

#### By Cheque:

Made payable to  
All Events Group Pte Ltd and mailed  
with your registration form to:  
All Events Group Pte Ltd  
52 Foch Road, #02-02  
Singapore 209274

#### By Telegraphic Transfer:

to All Events Group Pte Ltd,  
United Overseas Bank  
Account Number: 421-300-086-6  
Branch Code: 7375-494

#### By Credit Card:

Please debit my credit card for:  
USD \_\_\_\_\_

Card No:

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Visa  Mastercard

Expiry Date: \_\_\_\_\_ (mm/yy)

Name on Card: \_\_\_\_\_

CVV/Security Code: \_\_\_\_\_

Signature: \_\_\_\_\_