



GreenCape

Dear member,

INVITATION: Biogas operator training workshop

The Southern Africa Biogas Industry Association (SABIA) in collaboration with the South African Renewable Training Centre (SARETEC), The Danish Innovation Network for Biomass (INBIOM) and Agro Business Park (of Denmark) is inviting plant managers and operators of biogas and wastewater treatment works to participate in an interactive training workshop. The workshop is endorsed and co-hosted by GreenCape and will be presented by Niels Østergaard of Agro Business Park.

EVENT DETAILS

When: 5 - 6th June 2018

Where: South African Renewable Training Centre (SARETEC), Bellville, Cape Town

Cost: R2500 per person per day

Accommodation and travel at your own expense.

***NB: Please indicate your interest for the training by using the RSVP link below by **no later than 29th May**.

Agenda:

The workshop will address the following key questions:

1. How does a biogas plant work?
2. What characterizes the well-functioning biogas plant?
3. What characterizes a plant having process problems?
4. What simple measures can be implemented to reduce process problems?
5. How can biogas plants work together to optimize plants?

The workshop will cover the following topics:

- Biogas plants – what do they look like?
- Mesophilic – thermophilic digestion
- How do bacteria work?
- Hydrogen sulphide
- Struvite / MAP
- Biogas production – how much?
- Industrial waste
- Waste food
- Gas and liquid
- Mass balances
- Odour treatment
- Use the experience

Who is this course for?

- Biogas plant managers and operators
- Wastewater treatment works managers and operators

*****NB: This will a very interactive workshop to assist plant operators with actual issues being experienced on site. It is recommended that these operators forward questions and/or issues prior to the training workshop so that the presenter can share his experience on how to remedy them.**

Provisional Workshop Programme:

Day 1	
Morning session	
9:00 – 10:00	Introduction and presentations
10:00 - 12:00	Biogas plants – what do they look like? Mesophilic – thermophilic digestion How do bacteria work?
12:00 – 13:00	Lunch
Afternoon session	
13:00 – 15:00	Hydrogen sulphide, Struvite / MAP
15:00 – 15:20	Coffee break
15:20 – 17:00	Biogas production. How much? Discussions
Day 2	
Morning session	
9:00 – 10:30	Industrial waste, food waste
10:30 – 10:50	Coffee break
10:50 – 12:00	Gas and liquid mass balances: What is the importance of this?
12:00 – 13:00	Lunch
Afternoon session	
13:00 – 15:00	Odour treatment
15:00 – 15:20	Coffee break
15:20 – 17:00	Apply the course knowledge. Discussions

Niels Østergaard biography:

Niels Østergaard graduated from Copenhagen University in 1982 with a Master of Science in Biology. Niels has 40 years of experience as a plant design consultant, owned two companies developing biogas technology, carried out manager trainings, and troubleshooting of biogas plants in several countries. Niels is now a Project Manager in Agro Business Park and INBIOM (www.agropark.dk/www.inbiom.dk) working to design and optimize Danish and foreign biogas plants.

www.greencape.co.za

yaseen@greencape.co.za



GreenCape is a non-profit organisation that drives the widespread adoption of economically viable green economy solutions from the Western Cape.

We work with businesses, investors, academia and government to help unlock the investment and employment potential of green technologies and services, and to support a transition to a resilient green economy.

Our vision is for South Africa to be the green economy hub of Africa.