



	7th of November 2018	
09.30-12.30	Enzyme to improve the Biogas yield – DEMETER a BBI Ju funded project as best practise	
Organized by: Ciaotech/PNO		

The transition from an economy based on fossil resources to a bio-based economy is a must and should be realized sooner than anticipated at the moment. A drastic reduction in greenhouse gas emission is urgently needed as the goals set to limit global climate change are not being met. The conversion of biomass into energy sources (biofuels, biogas) and chemicals plays an essential role in this transition.

To efficiently convert biomass and agricultural, industrial and municipal waste into fermentable sugars, chemical building blocks or bio-based materials, enzymes play an indispensable role. However, currently available enzymes have not specifically been developed for biogas production and are evaluated by "trial and error". Thus far, the use of enzymes has not lived up to the expectations as little or no effects could be observed. Hence, efficient enzyme-enabled biomass conversion requires the availability of enzymes that have proven to be effective in practice and can be produced at an industrial scale. The DEMETER project partners will give an insight on how this can be possible.

Chairmen

Stefania Baldassarre
Valentina Cinti

Programme

9.30 Introduction by the Chairs

10.00– 10:20 Sandra Hinz - GENENCOR INTERNATIONAL BV (PART OF DUPONT INDUSTRIAL BIOSCIENCES GROUP)
DEMETER project- General Presentation

10:20-10:40 Stefania Baldassarre – CIAOTECH SRL
Biogas market: Key players and future perspectives

10:40-11:00 Jan Liebetrau - DBFZ DEUTSCHES BIOMASSEFORSCHUNGSZENTRUM GEMEINNUETZIGE GMBH
Scientific approach for the demonstration of an enzyme effect during anaerobic digestion

11:00-11:20 Coffee Break

11:20-11:40 Filip Velghe - ORGANIC WASTE SYSTEMS NV
Impact of enzyme on biogas processes

11:40-12:00 Maxim Backaert - BIO BASE EUROPE PILOT PLANT VZW
Challenges in the scale up of enzyme production

12:00-12:20 Ian Burgess - MIAVIT GMBH
Experimental setup and realization of testing enzymes in full-scale plants

12:20-12:30 Questions and Answers

12.30 Discussion and closure