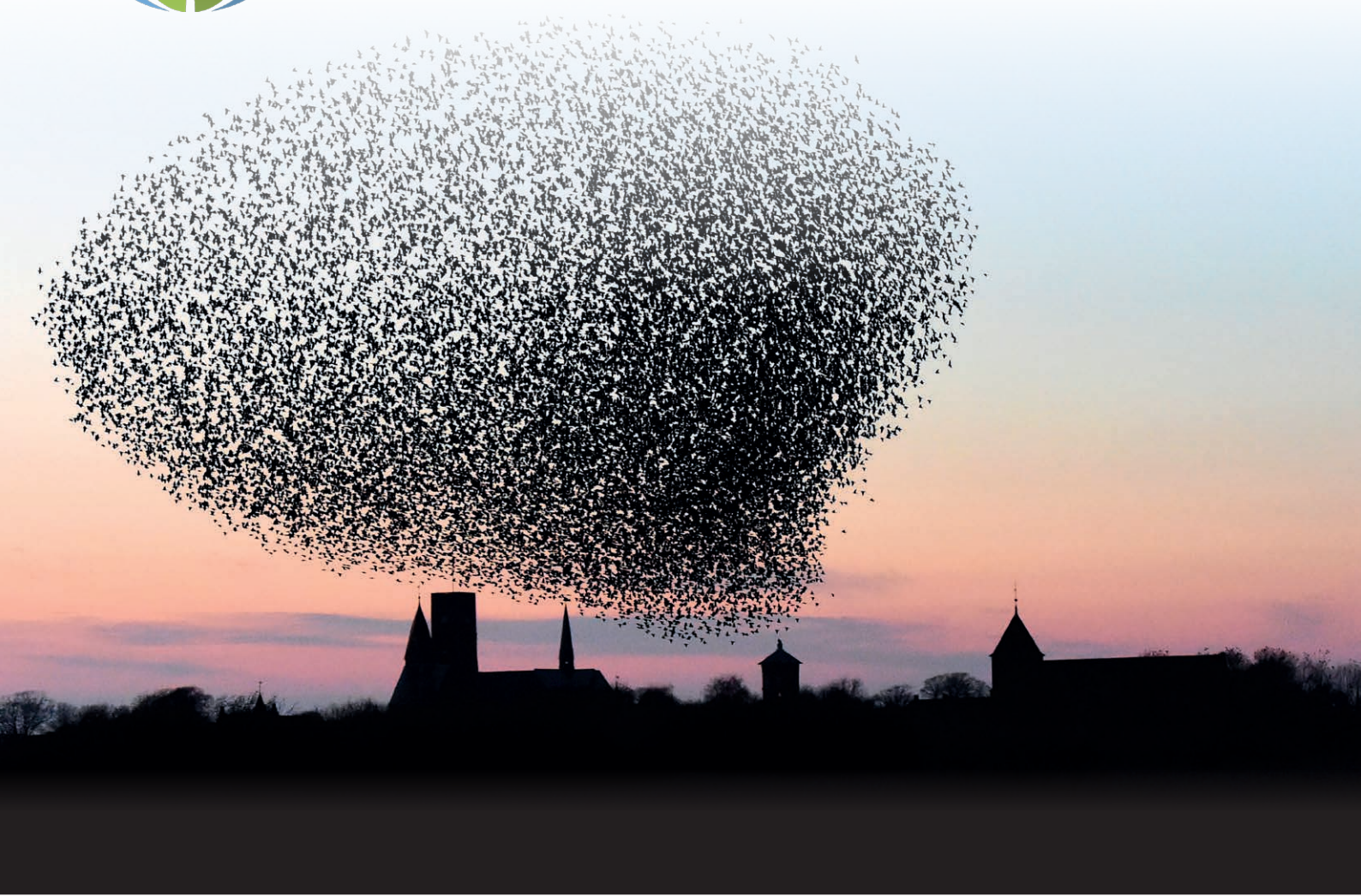


IBBA

INTER BALTIC BIOGAS ARENA

4th Inter Baltic Biogas Arena and IBBA Workshop
Esbjerg, 25 - 26 August 2016



Workshop Program

25 August

- 09:00 **Welcome to the Inter Baltic Biogas Arena Workshop**
Prof. Jens Bo Holm-Nielsen, Center for Bioenergy and Green Engineering, Aalborg University
Prof. Frank Scholwin, Institute for Biogas, Waste Management & Energy, Weimar
- 09:20 **Keynote: Biogas production on the way towards competitiveness - process optimization options and requirements**
Dr. Jan Liebetrau, DBFZ, Germany
- 09:50 **BREAK**
- 10:10 **Sustainable biomass substrates: Potentials and perspectives in Europe. Low cost feedstocks - challenges and solutions 1**
Ane Katharina P. Meyer Ph.D., post doc, Dept. of Energy Technology, Aalborg University - Esbjerg campus
- Low cost feedstocks for biogas plants - challenges and solutions 2**
Ph.D. ass. Prof. Piotr Oleskowicz-Popiel, Institute of Environmental Engineering, Poznan University of Technology (PUT), Poland
- 10:50 **Company presentations**
1. - 10. Of Sponsor/Exhibitor companies:
10 min each company oral presentation
- Farmatic
 - Landia
- More presentations will be announced later.
- 11:50 **LUNCH BREAK**
- 12:50 **Speed Dating**
- 13:50 **BREAK**
- 14:00 **New technology solutions for lignocellulosic materials.**
3 company presentations
introduced by Jens Bo Holm-Nielsen
- 14:30 **Changes in the daily substrate mix - effects on process efficiency and opportunities of solid manure etc.**
Prof. Jens Born, Flensburg University of Applied Science
- 15:00 **Aquatic Biomass for biogas plants - realistic substrate source or an academic idea - including full scale experience from Solrød Biogas Ltd.**
Ass. Prof. Rikke Lybaek, Department of Humans and Technology, Roskilde University (RUC), Denmark
- 15:30 **Marine Biogas - A commercial concept to recapture marine nutrients and producing biogas**
PhD Fredrik Norén, Marine Biogas, Sweden
- 16:00 **COFFEE BREAK**

- 16:30 **Grass and grass-legume biomass as biogas substrate - environmental and economic sustainability at different cultivation intensities**
Ph.D. Thomas Prade, SLU, Dept. of Biosystems and technology
- 17:00 **Analysis and Optimization of Energy Flows in existing Biogas Plants for improved economic performance**
Thomas Knauer, Ingenieurbüro für Energietechnik Niebüll / University Rostock, Germany
- 17:30 **dinaMETAN: choosing the right substrates and combining it for the optimal digestion input**
Michael Niederbacher, CEO of BTS Biogas Ltd.
- 18:00 **Concluding remarks**
by Frank Scholwin and Jens Bo Holm-Nielsen
- 18:30 **Social event**
Grill party and great fun time at Aalborg University Campus and Nature area of Esbjerg! - and short distance to the Conference hotel!

26 August

- 08:30 - 14:00 **Study trip to biogas plants in the South-Western Denmark**
All biogas plants are situated in a distance from Esbjerg at 30-40km
- Ribe Biogas** including new test plant, Linkogas - New Organic farming line and NGF-Holsted biogas, all with new interesting facilities in the context of the workshop!
- Ribe Biogas Ltd. Company where new testings of full scale Wet Oxidation of fibres will be demonstrated
www.ribebiogas.dk
- LinkoGas** is a large well driven biogas plant in the SouthWest of Denmark. Very innovative in the entire chain.
www.biogasbranchen.dk • www.biogasdk.dk
- NGF- Nature Energy** biogas plant at Holsted, a large scale facility producing biogas of cheap biomass feedstocks, Manure, Deep Litter materials and food waste
www.natureenergy.dk

Esbjerg

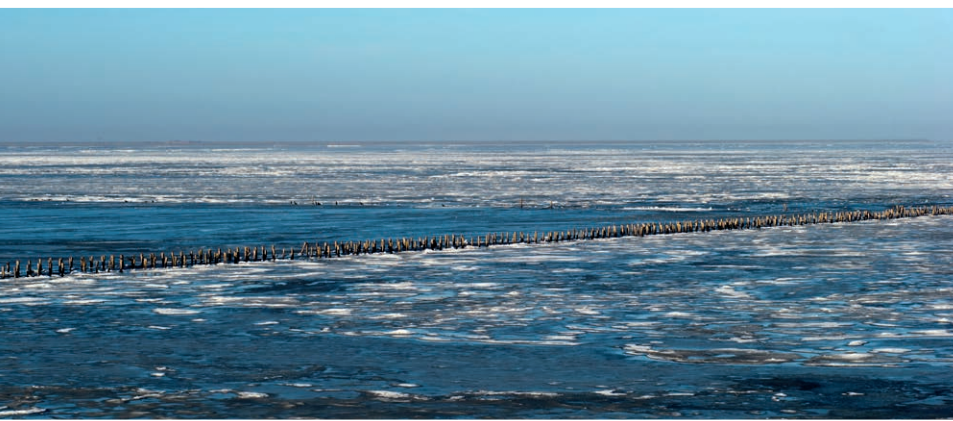
Esbjerg's landmark, the nine-metre-high sculpture Man Meets the Sea, overlooks both the Wadden Sea and the North Sea. Esbjerg is the spot where people, sea and great art and culture meet. Therefore, the scope of what you can experience in Esbjerg is wide - very wide.

Esbjerg - Denmark's energy metropolis - buzzes with energy. In Esbjerg you will find exciting museums and art, lots of shops, events and festivals, top sports facilities. Everything surrounded by the unique and beautiful nature of the Wadden Sea National Park, which is a UNESCO World Heritage Site.

WWW.VISITESBJERG.DK



The Wadden Sea is Denmark's largest National Park and is among the most valuable wet-land areas in the world and of crucial importance for breeding birds, ocean mammals, and plant life. Here you will find both room and opportunity to feel the elements and experience a varied and unique wildlife.

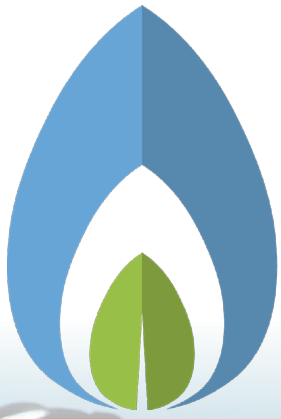


In many ways, the Esbjerg area is a journey through time and place. Here, you will find both Denmark's youngest city, Esbjerg, and Scandinavia's oldest town, Ribe, whose history dates back to the beginning of the 700th century. To wander through the old cobblestone streets of Ribe is to travel back through time. Many of the beautiful buildings here can be linked with famous figures and with certain periods of the town's long and dramatic history with Vikings, kings, queens, bishops, traitors, witches, floods and fire.

in 2014 Ribe gained the title of "Europe's Best Big Time Small Destination".

WWW.VISITRIBE.DK





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We look forward to seeing you
in Esbjerg August 25th and 26th

Registration at www.IBBAworkshop.se

Questions of the IBBA-workshop:
MSK@et.aau.dk or JHN@et.aau.dk

