Energiforsk

BioGas2020

Interreg
Öresund-Kattegat-Skagerrak
European Regional Development Fund

EUROPEAN UNION

GasAkademin

Summer school program 2017

Monday August 14th
11.00–11.30 Introduction
Information about the course and on Energiforsk. Brief presentation of the participants.
11.30–12.30 LUNCH
Session 1: Introduction
12.30–13.10 Facing climate change – Which are the options to act?, Filip Johnsson, Chalmers
13.10–13.50 Sustainability of biogas production, Henrik Wenzel, SDU
13.50–14.30 Biogas from by-products from the forest industry, Karin Granström, KAU
14.30–15.00 COFFEE BREAK
Session 2: The role of gas in the energy system
15.00–15.45 Current production of biogas in Scandinavia, Bruno Sander Nielsen, Danish Agriculture & Food Council
15.45–16.30 System aspects related to the future role of the gas system, Marie Münster, DTU
17.00–18.00 Interviews: Deep interview of your colleague and preparation for presentation of him/her Tuesday afternoon
18.00 DINNER

Tuesday August 15th
Session 3: Gasification
8.30–9.15 Gasification of waste, Lars-Erik Åmand, HiB
9.15–10.15 Gasification of biomass, Martin Seemann, Chalmers
10.15–10.45 COFFEE BREAK
10.45–11.45 Gasification of biomass, process concepts, Henrik Kusar, KTH
12.00–13.00 LUNCH
Session 4: Anaerobic digestion
13.00–13.45 Anaerobic digestion, process overview, Anna Schnürer, SLU
13.45–14.30 Anaerobic digestion, microbiology, Anna Schnürer, SLU
14.30–15.00 COFFEE BREAK
Session 5: Ongoing research
15.00–16.30 Presentation of the participants
18.00 DINNER

Wednesday August 16th
8.15 Departure Vara Folkhögskola
9.00 Technical visit Vårgårda Herrljunga Biogas (host: Per-Olof Rosén, Vårgårda Herrljunga Biogas)
11.00 Departure and lunch
13.00 Technical visit Gobigas (host: Ingemar Gunnarsson, Göteborg Energi)
15.00 Technical visit Gasendal (host: Jan Karlsson, Göteborg Energi)
16.30 Departure to Vara Folkhögskola
18.30 DINNER

Thursday August 17th
Session 6: Biogas upgrading and gas quality
08.30–9.15 Biogas upgrading, Åke Nordberg, SLU
9.15–10.00 Gas quality, Jean Schweizer, DGC
10.00–10.30 COFFEE BREAK
Session 7: Gas motors
10.30–11.15 Internal combustion engines for gaseous fuels, Per Tunestål, LU
11.15–12.00 Gas turbines and combined cycles for flexible power production, Magnus Genrup, LU
12.00–13.00 LUNCH
Session 8: Implementation of gas projects
13.00–13.45 Gas regulation, Poul Erik Morthorst, DTU
13.45–14.30 Challenges with working locally to improve the biogas market, Marie Mattsson, HH
14.30–15.00 COFFEE BREAK
15.00–16.30 Argumentation session
18.00 DINNER

Friday August 18th
Session 9: Power-to-gas and smart grids
08.30–9.15 Power-to-gas, an overview, Lars Ditlev Mørck Ottosen, AU
9.15–10.00 Catalytic and biological methanation – do not waste valuable CO_2, Lars Ditlev Mørck Ottosen, AU
10.00–10.30 COFFEE BREAK
10.30–11.15 Resource-efficiency assessment of feedstocks for biogas production – a multi-criteria approach, Jonas Ammenberg, LiU
11.15–12.00 Life-cycle assessment and uncertainty analysis of biogas production, Roozbeh Feiz, LiU
12.00–13.00 LUNCH
13.00–14.00 Key-note: Commercial Green – An energy company's strategy towards a future of sustainable gas, Morten Gyllenborg, Nature Energy
14:00–15:00 Evaluation

Sponsors:
Energigas Sverige, EON, Dansk Gasteknisk Center DGC, Åforsk and Aarhus University AU, Chalmers, Halmstad University HH, Högskolan i Borås HiB, Karlstad university KaU, Lund university LU, Linköping university LiU, Royal Institute of Technology KTH, Swedish University of Agricultural Sciences SLU, Technical University of Denmark DTU and University of Southern Denmark SDU.