

Aviation Biofuels through Biomass Gasification

25th May 2016, Radisson Blu Royal Garden Hotel, Trondheim, Norway

09:00	Welcome and safety – Judit Sandquist, SINTEF
09:10	About the GAFT project - Roger Khalil, SINTEF
09:25	The role and importance of aviation biofuels - Sierk de Jong, Utrecht University and SkyNRG
09:45	Aviation biofuels production via gasification
09:45	Impact of torrefaction on fuel properties of woody biomass– Liang Wang, SINTEF
10:15	bioliq® - BtL pilot plant – Thomas Kolb, KIT
10:45	<i>Coffee break</i>
11:00	Güssing: Small scale gasification-FT – Reinhard Rauch, TUWien
11:30	Aviation biofuels production from syngas
11:30	Status and developments in Fischer-Tropsch synthesis – Erling Rytter, NTNU
12:00	<i>Lunch</i>
13:00	FT catalysts for direct conversion of biomass-derived syngas to jetfuel – Rune Myrstad, SINTEF
13:30	Viability of aviation biofuels – how to increase market uptake
13:30	Viability of aviation biofuels – a general overview – Sierk de Jong, Utrecht University and SkyNRG
14:00	Optimal strategies for production of jet-biofuels via EF gasification based on co-processing woody biomass and wet organic waste – Gonzalo del Alamo, SINTEF
14:30	<i>Tea/coffee break</i>
15:00	Aviation biofuels strategies and experiences
15:00	Recent developments in gasification-based aviation biofuels in the U.S. – Zia Haq and Borka Kostova, U.S. Dept of Energy
15:30	Introducing aviation biofuels into Gardermoen Airport's fuel distribution infrastructure – Olav Mosvold Larsen, Avinor
16:00	Conclusions from today's workshop – Judit Sandquist, SINTEF
16:15	Closure

26th May 2016, visit to SINTEF Energy labs and Heimdal Varmesentral

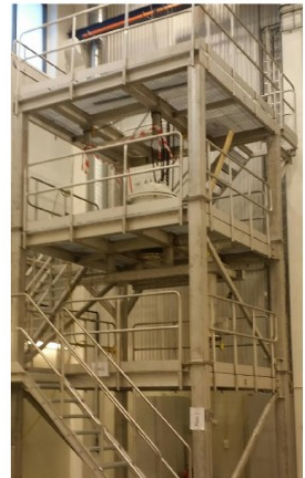
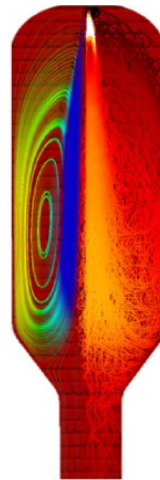
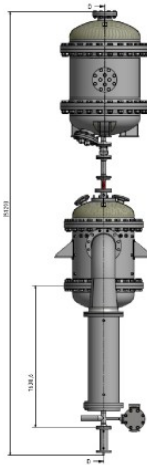
*A bus will pick you up at Radisson Blu Royal Garden Hotel at 9.00. **Please meet 8.50 at the reception.***

Visit to SINTEF Energy lab 9.15-10.15

SINTEF Energy Lab represents the next generation in energy laboratories and is a vital tool for the development of tomorrow's efficient electrical power systems. The new laboratory will be an essential aid in meeting the many domestic energy challenges that Norway faces today.

The biggest and most spectacular lab is the new high-voltage laboratory, which is designed to carry out testing using system voltages of up to 420 kV. The laboratory building has a net floor area of 5,400 square meters, and houses seven distinct laboratories.

In the combustion lab we are going to visit a new entrained flow reactor. During the GAFT project, gasification experiments using representative industrial feedstock will be undertaken in a new Entrained Flow Reactor installed at the SINTEF ER laboratory. This reactor has been designed as a downscaled version of present industrial-scale EF gasifiers.



Visit to Statkraft Varme AS. – District heating in Trondheim 10.30 – 12.00:

Statkraft has a comprehensive district heating system in Trondheim. The energy production is mainly based on a WtE plant, Heimdal varmesentral. The WtE plant consists of 3 lines with today a total yearly capacity of 230.000 ton. The 2 old lines (L1 and L2) were put in operation in 1985 and the third line (L3) in 2007.

There has been carried out different upgrading projects in order to prolonging the life span for the older plant and also increase the energy efficiency and the waste capacity.



Bus transfer back to Radisson Blu Royal Garden Hotel.