

SFC Annual Program Conference, November 22-26, 2021

Date: November 22-26 (Meeting with advisory boards on November 26)

Venue: Vår Gård, Saltsjöbaden, Stockholm

Program

Monday Nov 22	
10:30-11:30	Registration
11:30-13:00	Lunch
13:00-13:10	Welcome address, Joakim Lundgren, Director SFC, Professor Luleå University of Technology
13:10-13:50	Keynote lecture 1: Måns Collin, Chairman SFC Program Advisory Board
13:50-14:30	Keynote lecture 2: Henrik Thunman, Node leader CIGB, Professor Chalmers University of Technology
14:30-15:00	News and messages from SFC companies
15:00-15:30	Coffee break
15:30-16:30	News and messages from SFC companies
16.30-16.40	Summary
18:30	Dinner
Tuesday Nov 23	
9.00-9.40	Keynote lecture 3: Steam gasification of biomass and residues: A critical assessment of the current development state, Matthias Kuba, Bioenergy and Sustainable Technologies BEST
9:40-11:50	Session 1: CIGB, Chair: Henrik Thunman, Chalmers <ul style="list-style-type: none"> • New fuels, new objectives for optimization - new opportunities, new challenges, Martin Seemann, Chalmers • The magic of an ash layer: what we have learnt about in-bed catalytic gasification in DFB systems, Teresa Berdugo Vilches, Chalmers • Dynamic modeling of large-scale FBC plants: from CHP to polygeneration, Guillermo Martínez Castilla, Chalmers • Multi-scale analyses of raw-gas cleaning technologies, Henrik Ström, Chalmers
11:50-13:00	Lunch
13:00-13:45	Keynote lecture 4: Hydrocarbon steam reforming and gas conditioning downstream biomass gasifiers, Klas Andersson, Haldor Topsøe A/S
13.45-15.55	Session 2: Cleansyngas, Chair: Klas Engvall, KTH <ul style="list-style-type: none"> • High pressure fluidized bed gasification: Selected results and practical lessons learned Klas Engvall, KTH • An Overview of Alkali Desorption Kinetics from Various Materials related to Biomass Gasification Xiangrui Kong, GU • Investigations of PM formation, char and benzene conversion favored by aerosol techniques Leteng Li, LNU • Investigating the decomposition of naphthalene on Ni on a molecular level, effects of co-adsorption of O and S Kess Marks, KTH
15:55-18:00	Poster session and refreshments
18:30	Dinner
Wednesday Nov 24	
9.00-9.40	Keynote lecture 5: Entrained-Flow Gasification of Biomass: Opportunities and Challenges, Kevin Whitty, University of Utah
9:40-11:50	Session 3: Bio4Gasification, Chair: Rikard Gebart, LTU <ul style="list-style-type: none"> • Overview of the B4G node research program - Rikard Gebart, Luleå University of Technology • Optical/Laser Diagnostics for Fuel Conversion of Biomass Particle - Per-Erik Bengtsson, Lund University • Machine vision-driven soft sensor for fuel feeding rate in combustion and gasification processes - Yngve Ögren, RISE ETC • Refractory Corrosion by biomass (in entrained flow gasification) - Markus Carlborg,

	<p>Umeå University</p> <ul style="list-style-type: none"> Fuel conversion and particle flows in entrained flow gasifier - Marcelo Dal Bello Takehara, Luleå University of Technology
11:50-13:00	Lunch
13:00-19:00	<i>Discussions regarding the SFC synthesis article (optional) /Free activity</i>
19:00	Dinner
Thursday Nov 25, IEA Bioenergy/SFC workshop	
Guidelines to overcome barriers for commercialization of advanced biofuels	
9:00-9:30	Registration and coffee
9:30-9:40	Welcome and introduction to seminar and workshop, Tomas Ekbohm, Task 39
9:40-10:00	Analysis of policies for biofuel development & production
10:00-11:00	First of its kind projects – how to get to market
11:00-11:20	Break
11:20-12:00	Learnings in biofuel developments
12:00-12:20	Results and conclusions for proposed guidelines for biofuels
12:20-13:20	Lunch
13:20-14:00	Advanced biofuel projects – accelerating development to large-scale
14:00-15:10	Group discussions
15:10-15:30	Break
15:30-16:30	Group presentations
16:30-17:00	<p>Panel discussion moderated by Johanna Mossberg (RISE) with amongst others:</p> <ul style="list-style-type: none"> Patricia Thornley, Director, Energy and Bioproducts Research Institute, Aston Univ. Kyriakos Maniatis, independent, former European Commission, Directorate for Energy Luc Pelkmans, Technical Coordinator of the IEA Bioenergy TCP Dina Bacovsky, BEST Nicolaus Dahmen, KIT
18:30	Dinner with SFC PAB and SC
Friday Nov 26	
9:00-12:00	Meeting SFC Program Advisory Board and Scientific Council
12:00-13:00	Lunch