

start	end	Topic
8:00	8:30	Registration
8:30		Introduction and general overview
8:30	8:40	- Background to Gas Analysis Workshops, near and future aims , York Neubauer, TU Berlin
8:40	9:00	- Experiences supporting the IBR (integrated biorefinery) TIGAS project , Rachid Slimane, gti
		- Discussion
9:00		Collaborative work via Round Robin exchanges in the field of sampling, detection and quantification of impurities in gases from thermochemical biomass conversion processes
9:00	9:15	- Collaborative work in round robins: Hurdles in preparation, execution and successful performing of on-site Round Robins (improved organisational, legal, financial, IPR-conditions); Markus Kleinhappl, Bioenergy 2020+
9:20	9:50	- Round robin sampling @ PSI Nov 2013 – first results , M. Kleinhappl
10:00	10:20	- Method comparison GDF-Suez – CEA , Etienne Basset, GDF-SUEZ
10:30	10:50	- Comparing SPA and tar protocol , Stefanie Reil, Fraunhofer UMSICHT Sulzbach-Rosenberg
10:50	11:00	- Discussion
11:00	11:15	break
11:15		Standards and reference methods for on-line analysis methods
11:15	11:25	- Needs for standardization and for validated reference methods , York Neubauer, TU Berlin
11:35	11:50	- Evaluation scale for degree's of difficulties and proposed template for Method-(I) cadastre – (II) catalogue-(III) evaluation checklist ; M. Kleinhappl
11:50	12:00	- Discussion
12:00	13:00	Lunch break
13:00		Supplementary tools for sampling and for sampling trains and testing
13:00	13:15	- Technological classification of test gas procedures and apparatus (liquid & gas dosage; thermodynamic saturation & mass transfer, chemical reactions); M. Kleinhappl & Y. Neubauer
13:20	13:40	- Test gas generation - generation of test gases by chemical reaction , Matti Reinikainen, vtt
13:50	14:15	- Dilution sampling , M. Reinikainen
moved to webinar		- Procedures in gas volume metering and problems from undetected systematic errors; Limitations in sampling of concentrations < 10 mg/m³ and influence of water ; M. Kleinhappl
		- discussion
14:15	14:30	break
14:30		Updates on inline and on-line analysis of tar species
14:30	14:50	- Optical absorption spectroscopy for gas analysis in biomass gasification , Helge Grosch DTU
15:00	15:20	- On-line Tar analyser , Andreas Gredinger, University Stuttgart
15:30	15:40	- Recent work on on-line tar analysis at TU Berlin , Y. Neubauer
		- Discussion
15:40		Summary of main outcomes
		- Extended and ranked list of potential Round Robins <ul style="list-style-type: none"> ▪ Host sites ▪ Users
		- further action
16:00		Close