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Gas Analysis Working Group (GAW) - Status and perspectives -

York Neubauer, TU Berlin; Serge Biollaz, PSI

"Gas measurement and analysis in thermal gasification systems" 26. October 2016, Lucerne, Switzerland



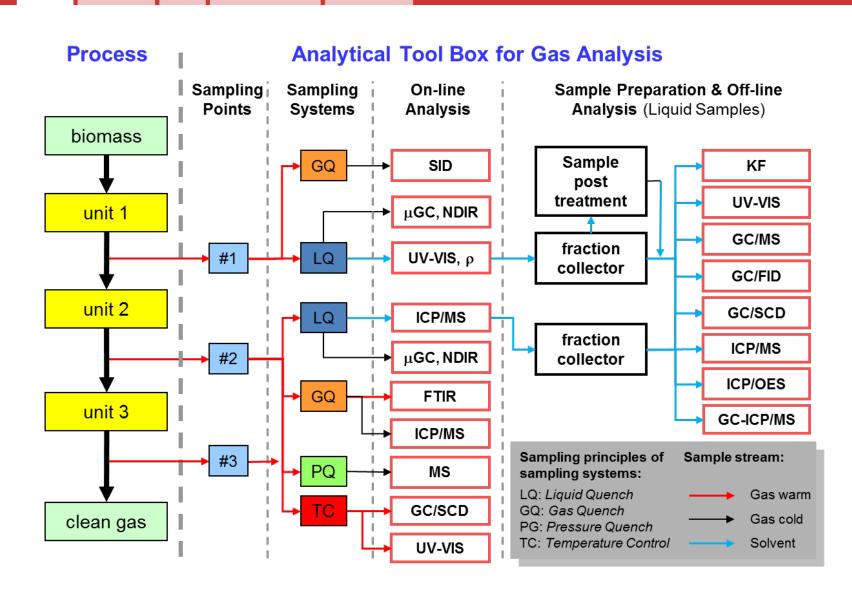
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First workshop on "tar measurement" in 2010 in Berlin was driven by consulting a research project which aimed at comparing gasifiers ("Bundesmessprogramm") coordinated from DBFZ, Leipzig, Germany @ TU Berlin TU Berlin, Fraunhofer IFF, Fraunhofer Umsicht,

Conclusions:

- Different interpretations of the 'standard' tar protocol
- No overview about the status of other known concepts for measuring
- Would be nice to have an international workshop.



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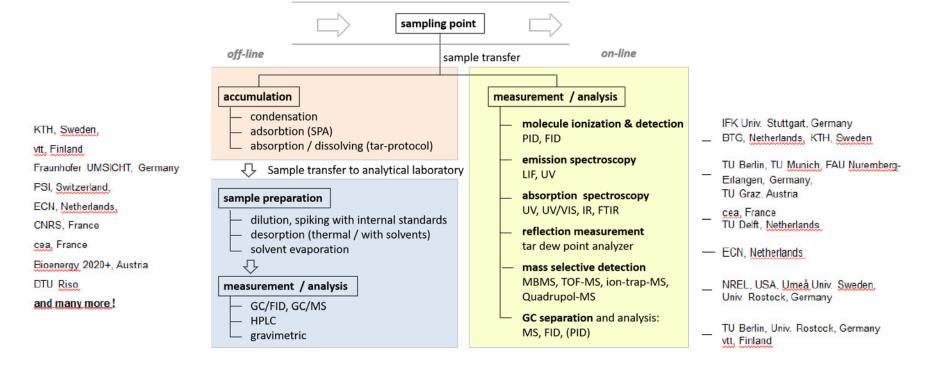
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June 2011 @ 19th EUBCE in Berlin: International Workshop: Measurement, Analysis and Monitoring of Condensable Gas Components (especially Tar) in Product-Gases from Biomass Gasification and Pyrolysis



More information: http://www.evur.tu-berlin.de/menue/workshops/tar_workshop/parameter/en



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After workshop Berlin 2011

Idea discussed at end of Berlin workshop:

- Create review paper/Report/wiki for determining the current status of analytical techniques and for its dissemination
- have another workshop

Idea brought up by M. Kleinhappl to form international working group:

"Setup of a working group to optimize the basis of knowledge about sampling, analysis and evaluation of impurities in product gases from thermochemical gasification, pyrolysis gases and conditioned synthesis gases"



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Motivation for the Gas Analysis Working Group (GAW)

- Workshops and internet based Webinars on all issues regarding gas analysis and more generally analytical tasks in gas producing processes
- Exchange of information on recent methodologies in product gas sampling and analysis
- Sharing knowledge and experiences
- Working together to learn, improve and to gain and deepen personal contacts (host site)
- Provide information on current status of analytical technologies in this field via Website and Wikis.



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Gas Analysis Workshops: Since 2010

More information here:

http://www.gas-analysis-webinars.org/?q=node/9

Gas Analysis Workshop 2016 Amsterdam

Amsterdam 2016

Gas Analysis Workshop 2015 Vienna

Vienna 2015

Gas Analysis Workshop 2014 Hamburg - Challenge event: Chemical Analysis in Biomass Conversion

Processes

Hamburg 2014 (EUBCE)

Gas Analysis Workshop 2014 Berlin

Berlin 2014

Gas Analysis Workshop 2013 - tar & sulphur sampling and analysis

Copenhagen 2013 (EUBCE)

Workshop on Sampling, Detection and Quantification of Impurities in Gases from Thermochemical

Biomass Conversion Processes - "Gas Analysis Workshop"

Milan 2012 (EUBCE)

Measurement, Analysis and Monitoring of Condensable Gas Components (especially Tar) in Product-

Gases from Biomass Gasification and Pyrolysis

Berlin 2011 (EUBCE)

Workshop zum Messen von Teer - Teermessung an Holzvergasungs-Motor-BHKW

Berlin 2010 - Invitation



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Gas Analysis Working Group: Since 2016

Here we are looking for your input. We want to concentrate on relevant issues. Therefore we will ake you to choose what is relevant for yourself or for your group. This feedback enables us to steer the activities in the best possible way.

Your participation in topical groups, Status of interest on:

Tar online measurement systems

- · Tar online measurement systems
- · Laser based/optical measurements of BTX+PAC

Sulphur measurement (technique and equipment)

- GC-X sulphur measurement (FPD, PFPD, SCD)
- Sulphur measurement with Micro-GC
- · Low cost total sulphur measurement

FTIR

• FTIR measurement (technique & equipment)

Particle sampling and analysis

· On-line particle measurements

Supporting devices for gas sampling

· Design & operation of gas diluation systems

 ${\bf ELN\ \&\ LIMS\ -\ electronic\ laboratory\ notebook\ \&\ laboratory\ information\ management\ system}$

ELN & LIMS

More information here:

http://www.gas-analysis-webinars.org/?q=node/26



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Learnings

- Interaction via internet makes collaborative working in virtual teams possible!
- Find other groups with very similar interests
- Try to understand the common motivation
- Perform round robin tests with real teams: Example PSI November 2013

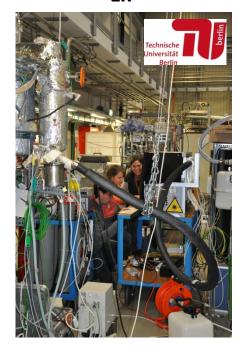
SPA



ETP



LIF





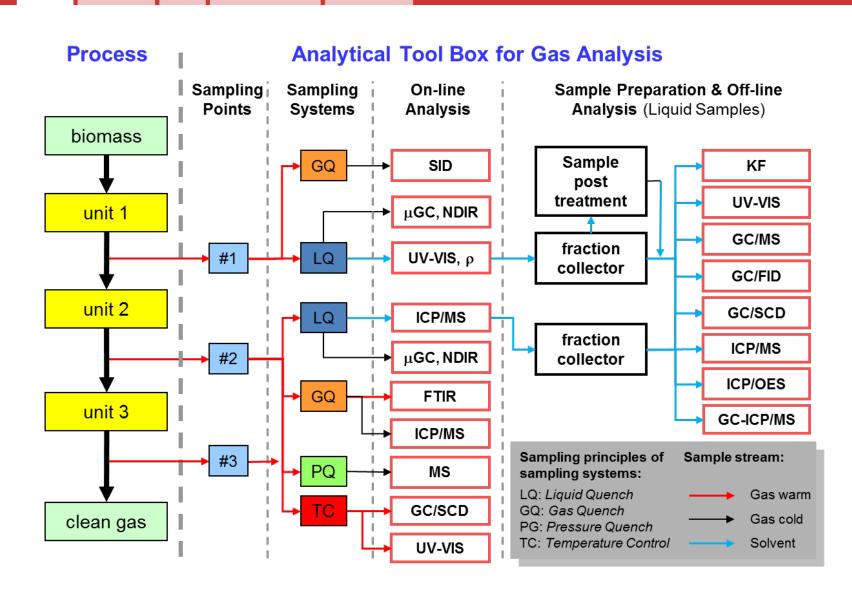
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Coming together is a beginning; keeping together is progress; working together is success.

Henry Ford (1863-1947)

We invite you to join!



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