

Introduction to TOTeM38
Copenhagen, Denmark, June 6th 2013

"Tar & sulphur sampling and analysis"

Chaired by

*York Neubauer (TU Berlin), Serge Biollaz (PSI)
and Markus Kleinhappl (Bioenergy 2020+)*

Rapporteur

Neil Fricker, (IFRF)

IFRF Doc No D 121/y/27 part 1



Background to BRISK - 1

- **BRISK** is a European Research Infrastructure
 - **Biofuels Research Infrastructure for Sharing Knowledge**
 - **Thermochemical Processing of 2nd Generation Biofuels**
 - 26 Partner Laboratories
 - Over 60 research facilities
 - Co-funded by the **FP7 Capacities Programme**



Background to BRISK 2

- **BRISK:**
 - **EC funded Transnational Access** to partner's test facilities for Visiting Researchers (**Open to all**)
 - **Joint Research Activities**, including **Advanced Measurement Techniques**
 - **Networking Activities** including
 - Today's Workshop
 - Coordination of Round Robins
 - Protocols for measurement and databases for sharing
- **Find out more:**
 - EBC&E Exhibition BRISK/EERA stand
 - www.briskeu.com



The TOTeM Concept

- **T**opic **O**rientated **T**echnical **M**eeting
- Focused on a TOPIC rather than a technical discipline
- Seeks to address three questions?
 - **What are the issues?**
 - **What do we know already?**
 - **What do we need to know?**
- Results in an **Action Plan**



Biofuel TOTeMs

- TOTeM 14
 - Växjö, Sweden
 - October 1999
 - ***Biofuels.***
- TOTeM 29
 - Munich, Germany
 - October 2009
 - ***Characterisation of Biofuels for Co-Combustion***
 - Includes results of IFRF Bioflam and PowerFlam2 Projects
- TOTeM 35
 - Pisa, Italy
 - September 2010
 - "Co-firing secondary fuels in power generation: from fuel characterization to full scale testing"
 - Includes initial results from DEBCO project



BRISK + TOTeM =

- TOPIC is “**Tar and Sulphur Sampling and Analysis**”
- Questions are:
 - **What are the issues?**
 - Why should we measure tar/sulphur?
 - Can we share/compare data?
 - **What do we know already?**
 - What methods are available?
 - What protocols are available and agreed?
 - **What do we need to know?**
 - Technology gaps?
 - Research needs?
- Result is an **Action Plan**
 - Round Robins?
 - Other actions?



What happens to the output from TOTeM 38?

TOTeM Output

Presentations and Conclusions published

www.briskeu.com

- www.ifrf.net
- TU Berlin web site
- EBC&E DVD

Follow up actions

Round Robins

Webinars

Transnational Access

Follow-up TOTeM



Format of TOTeM 38

- **Introductions**
- **Tar and Sulphur Measurement Techniques**
- 'Plenary' break/Lunch break – 10.00 to 13.00
 - **Networking**
 - Posters
 - BRISK stand at Exhibition
 - Registration/Copyright/Polling forms
 - Lunch options
- **Tar Protocol**
- **Round Robins**
- **Interactive Workshop**
 - Interim feedback rapporteur
 - Facilitated open forum
- **Final Rapporteur Feedback and Conclusions**



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