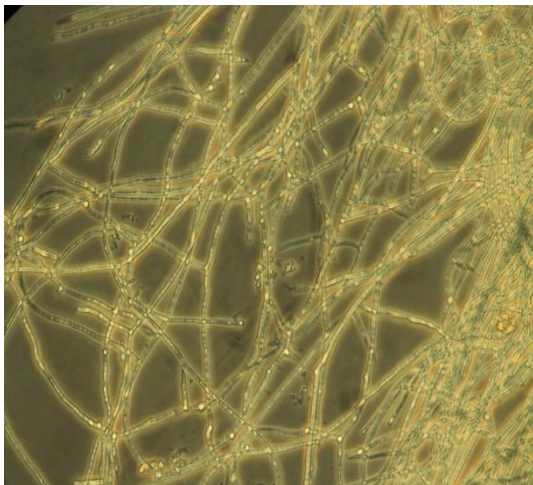


Workshop on Microbial Growth in Fuel Supply and Distribution Systems



16th March 2011



Workshop Objectives

This technical Workshop provides a forum for experts interested in all aspects of Microbial Growth problems related to fuel supply and distribution systems to:

- Ensure a common understanding of the origins of MBG problems,
- Share best practices for measuring their presence and mitigating their effects,
- Identify fruitful areas for future research, and
- Network with others interested in the same issues.

Workshop Morning Programme

10h00 *Welcome and Introduction (K. Rose and M. Lane)*

10h05 *Session 1: What is the industry experience? (Chair: Benoit Engelen)*

The Big Picture: Microbial Growth and the Fuel Supply and Distribution System

David Pullinger, ExxonMobil

Practical Experience with MBG Problems and Road Fuel Supply

Aubrey Burrows, Tesco

An Aviation Industry Perspective on MBG Problems

Peter Westphal, Deutsche Lufthansa

Q&A

11h20 *Session 2: Fundamentals of Microbial Growth (Chair: Rudolf Terschek)*

What are microbes and how did they get in my fuel supply system anyway?

Francesca de Ferra, ENI

What are the environmental factors that affect growth in fuel systems?

Elaine McFarlane, Shell representing the Energy Institute

Q&A

12h10 *Lunch*

Workshop Afternoon Programme

12h10 Lunch

13h10 Session 3: Measurement and Monitoring (Chair: Graham Hill)

Principles of Representative Sampling and Monitoring

Andrew Ryan, QinetiQ

Laboratory and Field Procedures

Ralph Weyandt, SGS Institut Fresenius GmbH

Condition Monitoring and Interpretation: A Case Study

Margret Schmidt, Shell representing DGMK

Q&A

14h20 Coffee Break (with posters and exhibits)

15h00 Session 4: Mitigation of MBG Problems (Chair: Elaine McFarlane)

How Microbes Affect Retail sites

Edward Wheeler, Eurotank

MBG Problems: Captive Fleet Operations

Howard Chesneau, Fuel Quality Services

MBG Problems: Remedial Treatments

Graham Hill, ECHA Microbiology

Q&A

16h10 Session 5: What Still Needs to Be Done?

Expert Panel Discussion (Moderator: K. Rose)

Aubrey Burrows, Elaine McFarlane, David Pullinger, Andy Ryan, Ed Wheeler

16h50 Closing Remarks

17h00 End of Workshop

Thanks to the Workshop Organizers!

➤ **CONCAWE (Belgium)**

- Luca Baldini (ENI), Nigel Elliott (ExxonMobil), Benoit Engelen (Total), Ken Rose (CONCAWE), and Rudolf Terschek (BP)

➤ **Energy Institute (UK)**

- Graham Hill (ECHA Microbiology), Elaine McFarlane (Shell), and Kerry Sinclair (Energy Institute)

➤ **DGMK (Germany)**

- Jan Ludzay (DGMK) and Margret Schmidt (Shell)

And CONCAWE's exceptional Administrative Staff!

- Barbara, Annemie, Jessica, Sandrine and Anja