





Session 3 Measurement and Monitoring

Graham Hill
Director, ECHA Microbiology
Chairman, Energy Institute
Microbiology Committee





Session 3: Measurement and Monitoring

Principles of RepresentativeSampling and Monitoring

Andy Ryan QinetiQ

Laboratory and Field Procedures

Ralph Weyandt SGS Institut Fresenius GmbH

Condition Monitoring and Interpretation: A Case Study

Margret Schmidt
Shell
Representing DGMK





Monitoring

- Best practice documents (IATA, EI, ASTM) advise Microbiological Monitoring as a key part of controlling microbial contamination
- Sampling is critical
 - Any test is only as good as the sample
- A variety of standard laboratory test methods and field test kits are available
 - IATA Guidance for aviation fuels provides a good reference point
 - Tests have varying levels of complexity
 - Different test kits measure different parameters
 - > Speak to the suppliers and choose based on which best meets your requirements for reliability, simplicity and ease of use, speed of result etc.
- The world of microbiology is undergoing a revolution in the techniques available for monitoring microbial contamination.
 - New Molecular Microbiological Methods may become increasingly important