

## Seminar

### Microbiology in Fuel

-Development, Impact and Solution-

Friday, 28th October 2011		
9:30 – 11:00	<b>Basics in Microbiology</b> <ul style="list-style-type: none"> <li>• What are bacteria, fungi, yeast?</li> <li>• What are common detection methods?</li> </ul>	Presenter: Mrs Brigitte Thut  Language: English
11:00 – 12:00	<b>Impact of microbial contamination on fuel quality</b> <ul style="list-style-type: none"> <li>• Development of diesel fuel and influence on microbial growth</li> <li>• Formation of biofilms</li> <li>• Technical problems in tank systems</li> </ul>	Presenter: Mrs Quyen Ziegann  Language: English
12:00 – 13:00	Lunch break	
13:00 – 14:00	<b>Best practice to avoid microbial contamination</b> <ul style="list-style-type: none"> <li>• Hygiene monitoring</li> <li>• Use of biocides</li> <li>• Tank cleaning</li> </ul>	Presenter: Mrs Quyen Ziegann  Language: English
14:00 – 15:00	<b>Onsite test methods</b> <ul style="list-style-type: none"> <li>• ATP test</li> <li>• mikrocount fuel test kit</li> <li>• mikrocount combi dipslides</li> <li>• some students can do the tests onsite</li> </ul>	Presenter: Mrs Brigitte Thut  Language: English
15:00 – 15:30	<b>Summary and future outlook</b>	Presenter: Mrs Quyen Ziegann  Language: English
15:30 – 16:00	<b>Time for discussion / questions</b>	

## Short description of the seminar:

This seminar will be held by schülke in cooperation with the University of Oil and Gas in Ploiesti. The aim is to give the participants an overview about microbiology and the consequences of microbes in fuel. Starting with the basics in microbiology the seminar shows what types of microbes can be found and how to detect them in the laboratory. The impact of microbes in fuel and the problems occurring for refineries, storage facilities, petrol stations and end users will be explained then. This topic shows how daily work can be affected by microbial contamination and how expensive the consequences can be. After the lunch break, the best practice will be explained to avoid and to stop microbial contamination in fuel. Last but not least some onsite test methods will be demonstrated live to the students with the opportunity to test it right away. A short summary of the seminar and a future outlook will close this seminar with additional time for discussions and questions.

## schülke – manufacturer of world leading biocides for contaminated fuel treatment

Founded in 1889, Schülke & Mayr GmbH specialises in disinfectants for healthcare and in technical preservatives, biocides and system cleaners for a wide range of applications and industries. schülke produces **grotamar® 71** and **grotamar® 82** two world leading biocides, used by major oil companies for treatment of microbial contamination in petroleum products. schülke's headquarter is in Norderstedt which is 10 km north of Hamburg in Germany. With 13 subsidiaries and a wide distribution network schülke operates in more than 80 countries. schülke belongs to the Air Liquide group and employs 640 people worldwide.

## Presenter:

### Brigitte Thut



Mrs Brigitte Thut works as a laboratory assistant in the schülke research & development department. She studied microbiology in the food industry in Romanian /Sibiu and Germany.

Mrs Brigitte Thut is working in the research & development department since 1984. As a result she has got a lot of experience in the microbiological field.

### Quyen Ziegann



Mrs Ziegann works as a product manager for fuel biocides at schülke. She has studied Business Administration and International Marketing in Germany and Australia.

She joined Schülke in 2007 and has been focusing on fuel biocides since then. She is in contact with many companies in the mineral oil industry and has gained broad experience in the field of contaminated fuel treatment.

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