

# Training course on failure analysis and corrosion management: **MICROBIOLOGICALLY INFLUENCED CORROSION (MIC)**

7-8 October 2021

The course will cover basic corrosion management principles, basic MIC mechanisms, use of molecular microbiological methods (MMM) in diagnosing and managing MIC, selection of MIC mitigation methods, selection and interpretation of MIC monitoring methods, case studies demonstrating MIC diagnostic tools, failure analysis principles, MIC modelling and demonstrate applicable sampling techniques and equipment.

## Learning Objectives:

- Be able to apply the latest Industry Guidelines and Standards on Corrosion Management and Microbial Corrosion of Engineered Systems
- Be able to apply Corrosion Management principles to assessing, mitigating and monitoring the corrosion threat of MIC
- Understand, and correctly apply and interpret state of the art MIC diagnostic methods
- Understand sampling procedures for various sample types obtained in the water and energy sector
- Be able to plan and execute a failure analysis investigation where MIC is the root cause

## Why You Should Attend:

To be able to diagnose, prevent and act against the MIC threat in industrial process systems in the upstream oil and gas industry, maritime sector and water processing industries.

## Who Should Attend:

Individuals with responsibility for developing, implementing and executing corrosion management activities, including corrosion and materials engineers, microbiologists, production chemists, process engineers, integrity managers, laboratory technicians and field staff. Both asset operators, manufactures, consultants and academics will benefit from the latest updates in this course.

**Dates:** 7 October, 9.00-17.00 // 8 October, 9.00-15.00

**Language:** The course will be taught in English.

**Sign up at:** [www.atv-semapp.dk/biocorrosion](http://www.atv-semapp.dk/biocorrosion)

Syddanske Forskerparker  
Forskerparken 10  
5230 Odense



*This is a hybrid course and you can choose to either join the course in Odense or online via MS Teams.*



## Dr Torben Lund Skovhus

(VIA University College, Denmark) is Docent and Project Manager at university level in the field of industrial microbiology, applied biotechnology, corrosion management, water treatment and safety, reservoir souring and biocorrosion. For the past 20 years participation in over 100 conferences as speaker/presenter/organizer within NACE, Energy Institute, SPE, TEKNA, ISME, EUROCORR and ISMOS. Published 7 books on the topic and 60+ technical/scientific articles



## Dr. rer. nat. Matthias Graff

is working at Danfoss A/S Technology Centre as Senior Specialist in Corrosion and Microbiology. Besides that, he is driving a private expert consultancy acting worldwide as officially appointed and certified expert ("skønsmand") in Technical Microbiology, Corrosion and Environmental Hygiene. He has studied microbiology, biochemistry and geology at Technical University of Braunschweig, Germany, later performing applied research and academic lectures in geomicrobiology, microbial ecophysiology and microbially influenced corrosion in Germany and South Africa. 85+ publications/conference lectures, 350+ expert reports.