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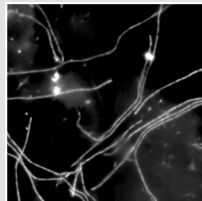
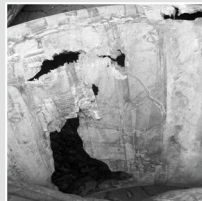
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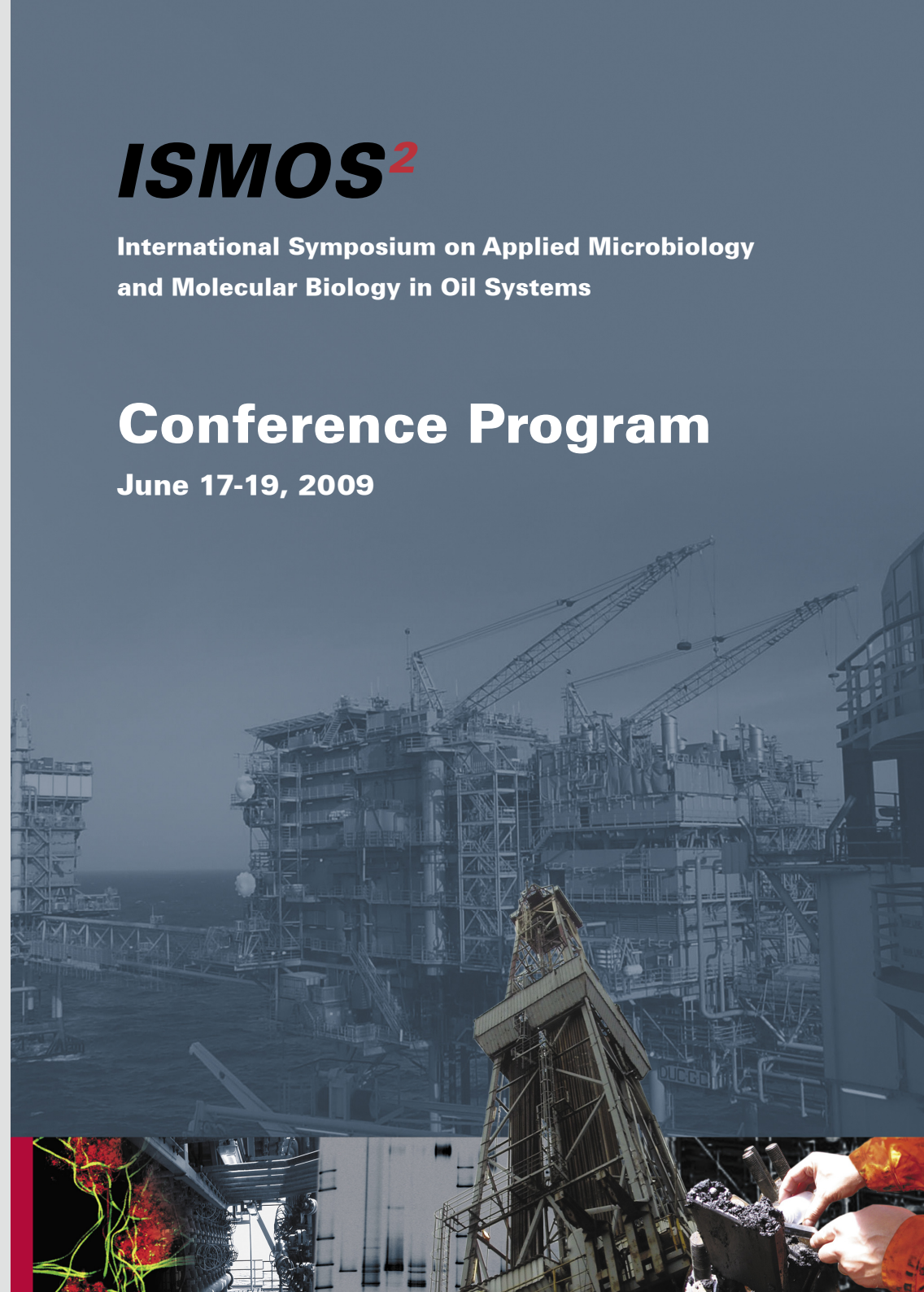
**DANISH
TECHNOLOGICAL
INSTITUTE**

ISMOS²

International Symposium on Applied Microbiology
and Molecular Biology in Oil Systems

Conference Program

June 17-19, 2009



Wednesday June 17

6:00 Welcome and opening remark
Torben Lund Skovhus

Opening Lectures,
Chairman: **Andreas Schramm**

6:05 **Alexander Loy** *On the opportunities and challenges of diagnosing sulfate reducing microorganisms*

6:50 Light Meal

7:30 **Joseph M. Suflita** *The Importance of Anaerobic Hydrocarbon Biodegradation in Oil Production and Consumption Operations*

8:15 **Casey Hubert** *Can "Misplaced Microbes" in the Ocean Serve as Vital Tracers for Oil and Gas Exploration?*

9:00 Drinks Reception

Thursday June 18

8:30 Registration/Coffee/Tea

8:50 *Official welcome* – **Bo Frølund**

9:00 Key Note **Bernhard Ollivier** *Microbiology of Oilfield Ecosystems*

S1 Microbiologically Influenced Corrosion in Oil Fields, Chairman: **Marcia Lutterbach**

9:30 **Ketil Sørensen** *Assessment of MIC using quantitative PCR*

9:50 **Kathleen Duncan** *Biocorrosive hermophilic Microbial Communities in Alaskan North Slope Oil Fields*

10:10 Coffee/Tea & Poster Session

S2 Biofuels, and Downstream Petroleum Microbiology, Chairman: **Elaine McFarlane**

10:30 **Elaine McFarlane** *Microbial Contamination of Middle Distillate Fuels: Past, Present and Future*

10:55 **David Owen** *Biological Degradation of Biodiesel - Causes, Effects, Monitoring and Mitigation*

11:20 **Margret Schmidt** *German Interindustry Study: Filter Blocking, Biofuels and Microbes*

11:45 **Francesca De Ferra** *Biotechnology for Unconventional II Generation Bio-Fuel Production*

12:05 Lunch

S3 Status and Challenges for Microbial Enhanced Oil Recovery (MEOR), Chairman: **Aleksandr Grigoryan**

1:00 **Janiche Beeder** *Aerobic Microbial Enhanced Oil Recovery - Experience from Laboratory Tests and Field Trials*

1:25 **Tamara N. Nazina** *Microbial Ecology of the High-Temperature Petroleum Reservoir and Results of MEOR Technology Application*

1:50 Coffee/Tea & Poster Session

S4 Molecular Microbiological Methods (MMM) in Oil Fields, Chairman: **Corinne Whitby**

2:25 **Catherine Joulain** *Bacterial Diversity of a Hypersaline Oil Reservoir Core*

2:45 **Jizhong Zhou** *GeoChip: A High Throughput Genomics Technology for Characterizing Microbial Functional Community Structure*

3:10 **Joel Kostka** *Quantification of Prokaryotic Gene Expression in Shallow Marine Subsurface Sediments of Aarhus Bay, Denmark*

3:30 **Andrew Price** *Detection of SRP Activity by Quantification of mRNA for the Dissimulatory (bi) Sulphite Reductase Gene (dsrA) by Reverse Transcriptase Quantitative PCR*

3:50 Coffee/Tea & Poster Session

4:30-6:00 Lab Tour & Practical Demonstrations

8:00 Conference Dinner at Hotel Marselis

Friday June 19

8:30 Coffee/Tea

9:00 Key Note **Bo Barker Jørgensen** *The deep sub-seafloor biosphere*

S5 Control and Prevention of Reservoir Souring, Chairman: **Paul Evans**

9:30 **Antje Gittel** *Potential of Nitrate Addition to Control the Activity of Sulfate-reducing Prokaryotes in High-temperature Oil Production Systems*

9:50 **Genit Voordouw** *Use of Nitrate in Souring Control of an Oil Field with low Bottom Hole Temperature*

10:15 **Aleksandr Grigoryan** *A Multi-disciplinary Survey to Limit Souring in Oil Reservoirs in Argentina*

10:35 **Brandon Morris** *Isotopic Fractionation by an n-Alkane Degrading Sulfate Reducer: Implications for Monitoring Intrinsic Bioremediation and Reservoir Souring*

10:55 Coffee/Tea & Poster Session

S6 Practical Application of Molecular Microbiology Methods (MMM) in Oil Field Systems, Chairman: **Ketil Sørensen**

11:15 **Geert van der Kraan** *Microbial Diversity of an Oil-water Processing Site and its associated Oil Field Production Water*

11:35 **Pat Whalen** *Comparison of Biocides Using New Detection Tool*

11:55 **Aleida de Vos van Steenwijk** *Prevention of MIC - a Case Study in Pipelines Transporting Water Condensate from Natural Gas*

12:15 Lunch

S7 Biodegradation of Hydrocarbons in Oil Production, Chairman: **Casey Hubert**

1:00 **Julia Foght** *Small Bugs in Big Ponds: Microbiology in Oil Sands Tailings*

1:25 **Neil Gray** *Microbial Community Structure, Dynamics and Function in Methanogenic Petroleum Degrading Systems*

1:50 **Dariusz Strapoc** *New Insight into Complexity of Subsurface Methanogenic Pathways: CO₂-Reduction and Acetate-Fermentation are not alone*

2:10 **Richard Johnson** *A Micro Solution to a Mega Problem - Can Microbes be used to clean up dirty Oil?*

2:30 **Natalya M. Shestakova** *Syntrophic Acetate Degradation to Methane in a High-Temperature Petroleum Reservoir*

2:50 Coffee/Tea & Poster Session

S8 Microbiological Challenges in Biofuels
Chairman: **Sune Nygaard**

3:05 **Gitte Sørensen** *Assessing microbial spoilage of biodiesel blends under aerobic and anaerobic conditions*

3:25 **Marcia Lutterbach** *Molecular Biology Tools in the Study of Biodiesel in Brazil*

3:45 **Howard Chesneau** *Important Technical Considerations when Contemplating Bioluminescence as an Analytical Tool for the Determination of Microbial Contamination of Petroleum Fuels and other Matrices*

4:05 Workshop on Methods for Detection of Microbes in the Oil, Gas and Petroleum Industry, Chairman: **Ian Head**

4:50-5:00 Summary ISMOS² and info on ISMOS³