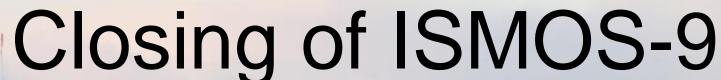
Edinburgh, UK

June 27-30, 2023





ISMOS ethos:



'To bring together academia & industry in molecular microbiological research into the deleterious activities of microorganisms to help resolve potential problems faced by industry, as well as encourage beneficial microbial activities'.



9TH INTERNATIONAL SYMPOSIUM ON APPLIED MICROBIOLOGY AND MOLECULAR BIOLOGY IN OIL SYSTEMS (ISMOS)

ISMOS-9



- ISMOS is the largest global event discussing microbiology and molecular biology in the oil and gas industry.
- It explores emerging microbial and molecular tools to help resolve challenges and develop opportunities that can be exploited by the industry.
- The meeting is multidisciplinary, linking biogeochemists, engineers, molecular biologists and microbiologists from industry and academia.

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ISMOS-9



The core of ISMOS is the role of microbes in energy systems

- Technology leaders and SMEs in the field are in this room
- We jointly lead technology development in this field
- We jointly lead education for the next generation
- We jointly lead improved standards and the regulatory framework

9TH INTERNATIONAL SYMPOSIUM ON APPLIED MICROBIOLOGY AND MOLECULAR BIOLOGY IN OIL SYSTEMS (ISMOS)

Wrap-up of ISMOS-9

ISMOS⁹

125 registrants - Global Audience →

5 Travel grants supported young researchers

2 Workshops: How2Store- Hydrogen storage, Early Careers

2 new sessions: Energy Storage and Transitioning; Monitoring, control, diagnostics and new methods for the energy sector – to reflect a changing energy sector

1 keynote & 5 invited speakers

39 offered talks; 23 % students 51 posters

- Argentina
- Austria
- Brazil
- Canada
- Denmark
- France
- Germany
- India
- Italy
- Japan

- Malaysia
- Mexico
- Netherlands
- Norway
- Saudi Arabia
- Singapore
- Turkey
- UK
- USA

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MICROBIOLOGY AND MOLECULAR BIOLOGY IN OIL
SYSTEMS (ISMOS)

Other Events...



RMF

• IBBS-19

Euro-MIC.org

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Contact | \(\mathbb{y} \) @ibbs_online | #ibbs19

HOME COMMITTEES ORGANIZER

International Biodeterioration and Biodegradation Symposium

9 - 12 September 2024 | Berlin, Germany

9TH INTERNATIONAL SYMPOSIUM ON APPLIED MICROBIOLOGY AND MOLECULAR BIOLOGY IN OIL SYSTEMS (ISMOS)

✓ MIC@BAM.de





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9TH INTERNATIONAL SYMPOSIUM ON APPLIED MICROBIOLOGY AND MOLECULAR BIOLOGY IN OIL SYSTEMS (ISMOS)



1st ISMOS workshop on hydrogen storage!

2 hours of exciting and insightful discussions with our amazing panellists:

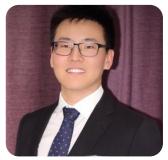
Microbiology, reservoir engineering, reservoir modelling, geoenergy engineering, geochemistry...

Academia & Industry













Nicole Dopffel NORCE Norway

Markus Pichler RAG Austria

Kamaljit Singh
Heriot-Watt
University
UK

Schlumberger-Private

Gang Wang
Heriot-Watt
University
UK

Lubica
Slabon
University
of Edinburgh
UK

Bart Lomans
Shell
Netherlands

- What are the greatest research needs in the field of UHS?
- How about practical & implementation challenges?
- What knowledge from a different discipline than yours would be particularly helpful for UHS research and implementation?
- Transitioning into UHS from oil and gas: similarities and differences?
- How can academia and industry work together in the field of UHS? What does the academia need from the industry? And vice-versa?
- In your opinion what is the greatest "competitor" or obstacle to making UHS a game-changer in the energy landscape?

Hydrogen value chain: supply & demand Successful demonstration pilots & field trials Cost Social acceptance



STRATEGIC RESEARCH AND INNOVATION AGENDA (SRIA) ON CIRCULAR ECONOMY





Multidisciplinary **EARLY** collaborative efforts
between academia & industry

Edinburgh, UK



ISMOS9



Early Careers Workshop – Friday morning

- Interactive workshop tailored for early stage researchers to hear about and discuss career paths with experienced professionals
- Four panelists:
 - Andrea Koerdt Federal Institute for Materials Research and Testing (BAM), Senior Scientist in Microbiology
 - Tanmay Chaturvedi Aalborg University, Associate Professor
 - Renato DePaula Solvay Oil and Gas Solutions, Business Development Manager & Technical Lead Advisor for Biocides
 - Danika Nicoletti LuminUltra Technologies Ltd., Applications Scientist



Early Careers Workshop – Friday morning







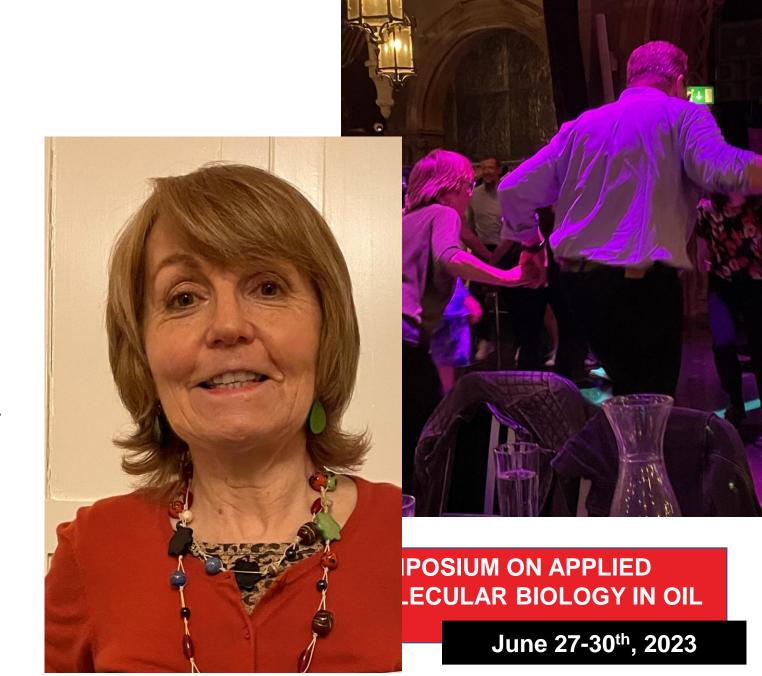
Early Careers Workshop – Friday morning

- Develop a 'generic' soft skills toolbox that you can apply to any position
- Be flexible and adaptable to doing different tasks
- Ensure to set aside personal time in your day, regardless of career choice
- Academic researchers talk to industry before starting any work!
 - Realistic expectations; transparency; open communication
 - Understand barriers, e.g., time for student training, and have a plan in place to work on industry projects
- Seek outside opportunities for professional and personal development

ISMOS⁹

 Keynote Speaker Maxine
 Akhurst (British Geological Survey)

"Addressing the challenges for the energy transition, assessing synergies and minimising conflicts of use of the UK offshore subsurface and seabed".







Publish your ISMOS work with us (Conference proceedings-CRC Press)



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Awards



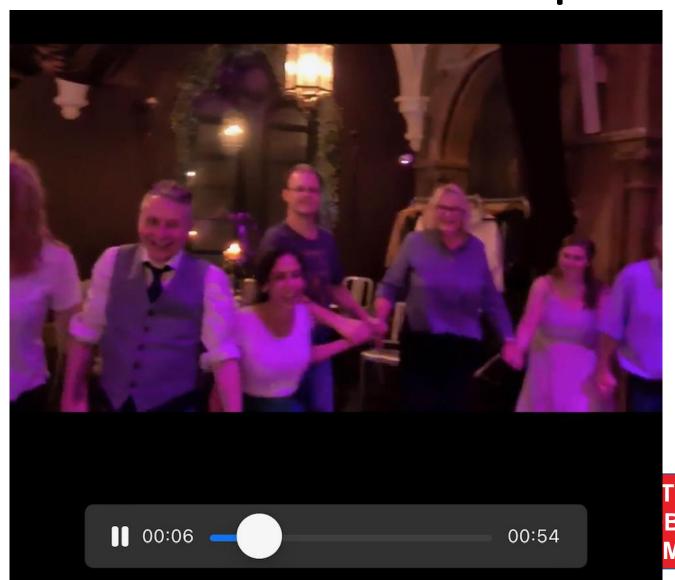
- Photo competition
- Leaderboard
- Best posters (x3)
- Best presentation (GV Award)

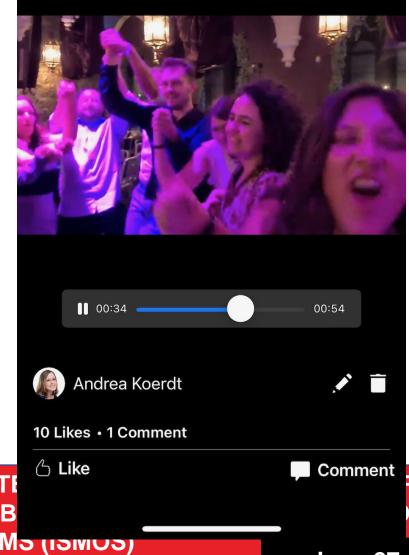


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Award – Photo Competition





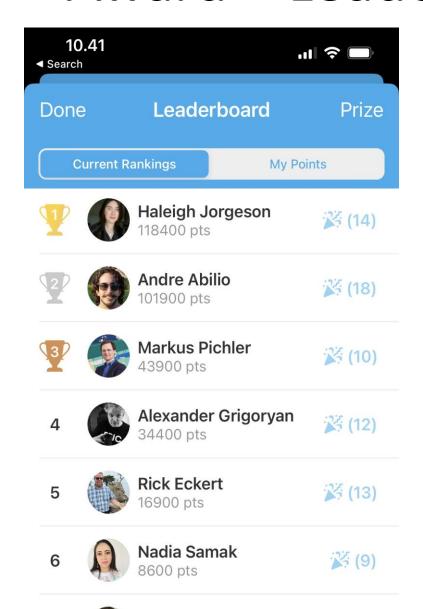




PLIED GY IN OIL

Award - Leaderboard





Haleigh Jorgenson



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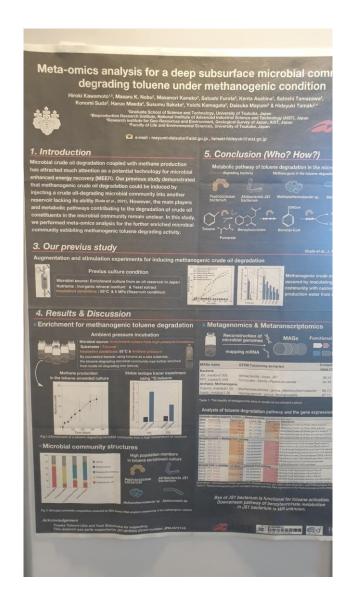
3 best posters

Jury in TSC





3 best posters



Hiroki Kawamoto and co-authors

SPRINGER NATURE

MIC E-Learning Academy

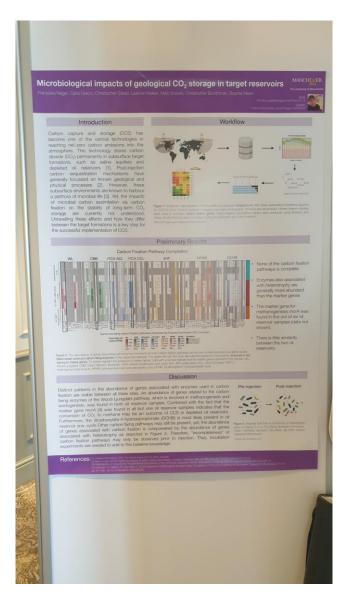
ISMOS⁹

3 best posters



ISMOS⁹

3 best posters



Franziska Nagel and co-authors

SPRINGER NATURE

MIC E-Learning Academy

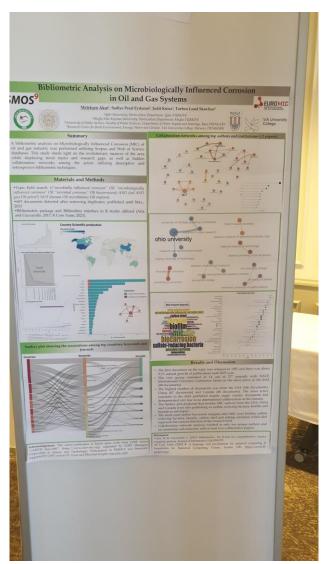
ISMOS⁹

3 best posters



ISMOS⁹

3 best posters



Meleksen Akin and co-authors

SPRINGER NATURE

MIC E-Learning Academy

Wrap-up of ISMOS-9



We had 39 offered orals! Your vote...!

Prof. Gerrit Voordouw

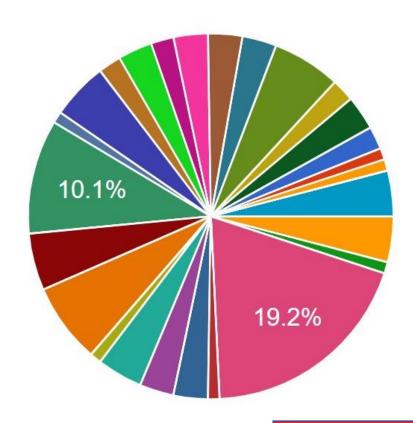
Best Presentation Award goes to...

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Vote for the best presentation award

ISMOS⁹

99 responses



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Prof. Gerrit
Voordouw
Best Presentation
Award goes to...

Andre Abilio

Expert system for screening of MIC



News from ISMOS Technical Scientific Committee



Julia de Rezende incoming TSC member





Big thanks to Sean Caffrey

Outgoing TSC member

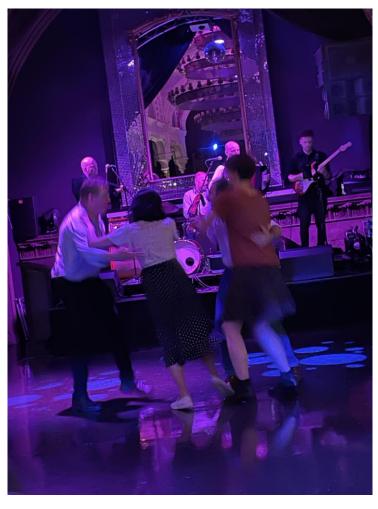
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ISMOS⁹











Thanks to...

9TH INTERNATIONAL SYMPOSIUM ON APPLIED MICROBIOLOGY AND MOLECULAR BIOLOGY IN OIL SYSTEMS (ISMOS)

> Key Note: Maxine Akhurst (BGS)



Invited Speakers: Lisa Gieg (University of Calgary),

Tony Gutierrez (Heriot-Watt University),

Sophie Nixon (University of Manchester),

Markus Pichler (RAG, Austria),

Mehrdad Hajibabaei (University of Guelph)

- Offered Oral Presenters
- Poster Presenters
- Panelists
- > Chairs
- > Delegates

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AWARD SPONSORS FOR BEST POSTERS & GERRIT VOORDOUW AWARD FOR BEST PRESENTATION







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A special thanks go to... ISMOS⁹







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A special thanks go to... ISMOS⁹





9TH INTERNATIONAL SYMPOSIUM ON APPLIED MICROBIOLOGY AND MOLECULAR BIOLOGY IN OIL SYSTEMS (ISMOS)

Presented by Dr Kerry Sublette ISMOS¹⁰

June 2025

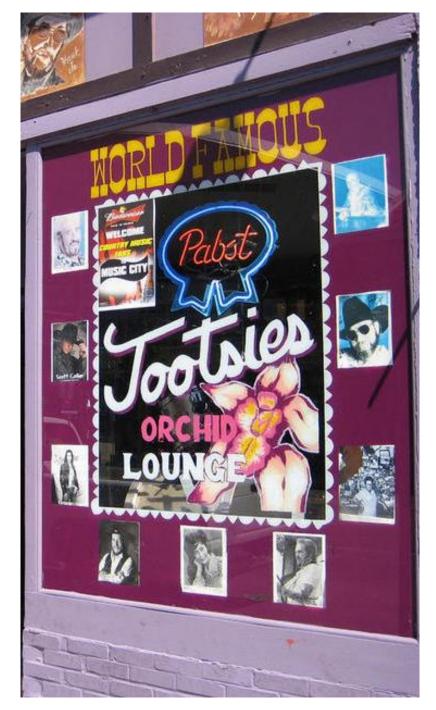
Nashville, TN USA

Hosted by:































Potential Venues

CONRAD NASHVILLE





See you at...

ISMOS¹⁰

...safe travels