

PROGRAMME AT A GLANCE

Location: Faculdade de Ciências, Universidade de Lisboa, Portugal (https://ciencias.ulisboa.pt/)								
Time (h:min)	Wednesday, 24 July 2024		Time (h:min)	Tuesday, 25 July 2024 (Hybrid meeting)	Time (h:min)	Friday, 26 July 2024 (Hybrid meeting)		
9:45 -13:30	**Fluorescence Microscopy and applications to microbiology workshop - Morning Session		8:30-9:00	Registration	8:30-9:00	Registration		
			9:00	Opening/Welcome	9:00	Welcome/Opening Remarks		
9:45-10:00	Registration		SESSION 1	Early detection of MIC for effective control: new advances in Diagnosis and Monitoring Chairs: Geert Potter & David Culliton	SESSION 3	Standardization: the lab-to-field transition Chairs: Julian Wharton & Rick Eckert		
10:00	Introduction to fluorescence microscopy & Instrumentation (I)		9:15	<i>Use of Complimentary Microbial Monitoring Technologies for Effective Asset Integrity Threat Assessment</i> <i>Invited speakers: Matthew Snape (SGS) & Danika Nicoletti (LuminUltra)</i>	09:15	<i>Building Consensus: Advancing Standards and Innovation in Microbiologically Influenced Corrosion and Biofilms</i> <i>Invited speaker: Paulina D. Rakowska (National Biofilms Innovation Centre, UK)</i>		
			10:10-10:30	Coffee-Break	10:10-10:30	Coffee-Break		
			10:30	4 Oral presentations (15 min each)	10:30	4 Oral presentations (15 min each)		
			10:45					
11:10	Coffee Break		11:00					
11:30	Instrumentation (II) & Applications to microbiology		11:15		11:15			
12:30	Tour of the imaging facility		11:30	Q&A	11:30	Q&A		
13:00-14:15	LUNCH		12:15-14:00	LUNCH POSTER SESSION	12:15-14:00	LUNCH POSTER SESSION		
Time (h:min)	MIC interlaboratory and pilot study workshop	OR (Parallel Sessions)	Time (h:min)	**Fluorescence Microscopy and applications to microbiology workshop- Afternoon Session	SESSION 2	MIC mitigation strategies towards eco-friendly and sustainable systems Chairs: Torben L. Skovhus & Tugce Tuccar	SESSION 4	Industry insights: Technology and regulatory challenges Chairs: Matt Snape & Maria Salta
14:15-17:30			14:30-17:30					
14:15	Overview of Pilot study test protocols		14:30	Introduction to fluorescence microscopy & Instrumentation (I)	14:00	<i>Demyth mechanism of microbial corrosion to design microbial corrosion-resistant materials</i> <i>Invited speaker: Dake Xu (Northeastern University, China)</i>	14:00	<i>Biofouling assessment in the offshore renewable energy sector: challenges and expectations.</i> <i>Invited speaker: Pedro Vinagre (WAVEC Offshore Renewables)</i>
15:15	Provisional test results Euro-MIC members		14:50		14:50	3 Oral presentations (15 min each)	14:50	<i>Challenges and Opportunities in Corrosion Mitigation to Meet the Decarbonisation Journey</i> <i>Invited Talk (Lloyd's Register): Martyn Wright & Heather Hughes & James Kwame</i>
			15:05		15:05			15:15
16:15	Open discussion of protocols and engagement (new sites and inoculum samples)		15:40-16:00	Break	15:35	Q&A	15:45	Q&A
			16:00	Instrumentation (II) & Applications to microbiology	16:00-16:30	Coffee Break & Poster Session	16:10-16:40	Coffee Break & Poster Session
17:15	Wrap up	17:00	Tour of the imaging facility	16:30	1 Oral presentation (15 min each)	16:40	1 Oral presentation (15 min)	
			<i>**Note: There are two time slots (morning session and afternoon session) available for this workshop, as the same session will be delivered twice.</i>	16:45	Q&A	17:00	<i>From Patents to Programmes - Supporting IPR Holders and Exploring Grants for all MIC-STAND members - a Pitch by Theo Zacharis</i>	
				17:05	Closing Remarks	17:15	Closing Remarks	
19:30	Dinner		20:30	Social Event- Dinner	20:30	Social Event – Dinner		

DETAILED PROGRAMME PER DAY

Location: Faculdade de Ciências, Universidade de Lisboa, Portugal (https://ciencias.ulisboa.pt/)					
Time (h:min)	Wednesday, 24 July 2024				
9:45 -13:30	Fluorescence Microscopy and applications to microbiology workshop - Morning Session Location: C8 building, Entrance Floor Level, Room 8.2.47				
9:45-10:00	Registration				
10:00	Introduction to microscopy				
	<ul style="list-style-type: none"> ● Fundamental properties of light ● Main families of fluorophores ● Introduction to fluorescence microscopy 				
	Instrumentation (I)				
	<ul style="list-style-type: none"> ● Anatomy of the epifluorescence microscope 				
11:10	Coffee Break				
11:30	Instrumentation (II)				
	<ul style="list-style-type: none"> ● Confocal microscopy 				
	Applications to microbiology				
<ul style="list-style-type: none"> ● Best practices for imaging microbiological samples 					
12:30	Tour of the imaging facility				
13:00-14:15	LUNCH				
Time (h:min)	MIC interlaboratory and pilot study workshop	OR (Parallel Sessions)	Time (h:min)	Fluorescence Microscopy and applications to microbiology workshop - Afternoon Session	
14:15-17:30	C6 building, 2nd Floor, Room 6.2.50		14:30-17:30	C8 building, Entrance Floor Level, Room 8.2.47	
14:15	Overview of Pilot study test protocols		14:30	Introduction to microscopy	
15:15	Provisional test results Euro-MIC members			<ul style="list-style-type: none"> ● Fundamental properties of light ● Main families of fluorophores ● Introduction to fluorescence microscopy 	
				Instrumentation (I)	
16:15	Open discussion of protocols and engagement (new sites and inoculum samples)		<ul style="list-style-type: none"> ● Anatomy of the epifluorescence microscope 		
			Coffee Break		
			Instrumentation (II)		
16:00		<ul style="list-style-type: none"> ● Confocal microscopy 			
		Applications to microbiology			
<ul style="list-style-type: none"> ● Best practices for imaging microbiological samples 		17:00	Tour of the imaging facility		
17:15	Wrap up				
----	----		----		
19:30	Dinner				

Location: Faculdade de Ciências, Universidade de Lisboa, Portugal (https://ciencias.ulisboa.pt/)		
Time (h:min)	<p style="text-align: center;">Turdsday, 25 July 2024 (Hybrid meeting) Location: C6 building, Room 6.2.56</p>	
8:30-9:00	Registration	
09:00	Opening/Welcome	
SESSION 1	<p>Early detection of MIC for effective control: new advances in Diagnosis and Monitoring Chairs: Geert Potter & David Culliton</p>	
09:15	KN1	<p style="text-align: center;">Use of Complimentary Microbial Monitoring Technologies for Effective Asset Integrity Threat Assessment <i>Invited Speakers: Matthew Snape (SGS) & Danika Nicoletti (LuminUltra)</i></p>
10:10-10:30	Coffee-Break	
10:30	O1	<p>Application of Machine Learning Techniques for Detection of Microbiologically Influenced Corrosion Miroslav Milovanović</p>
10:45	O2	<p>Electrochemical Sensing of Aerobic Marine Biofilms and the Influence of Nitric Oxide Attachment Control Julian Wharton</p>
11:00	O3	<p>Exploring Biomimetic Texturing for Antifouling Applications: Insights from a Computational Fluid Dynamics (CFD) Samira Nazari</p>
11:30	Q&A Session	
12:15-14:00	LUNCH POSTER SESSION	
SESSION 2	<p>MIC mitigation strategies towards eco-friendly and sustainable systems Chairs: Torben L. Skovhus & Tugce Tuccar</p>	
14:00	KN2	<p style="text-align: center;">Demyth mechanism of microbial corrosion to design microbial corrosion-resistant materials <i>Invited Speaker: Dake Xu (Northeastern University, China)</i></p>
14:50	O5	<p>Marine Microbial Induced Mineralization: Exploring Mechanisms for Bioinspired Anticorrosion Solutions Maria J. Marques</p>
15:05	O6	<p>Chitosan-based Coatings for Marine Biofilm Prevention Filipe Mergulhão</p>
15:20	O7	<p>Polyoxometalate Ionic Liquids (POM-ILs) as Protective Coatings for Cultural Heritage against Acid Corrosion and Biodeterioration - Archismita Misra</p>
15:35	Q&A Session	
16:00-16:30	Coffee Break & Poster Session	
16:30	O8	<p>Investigating the use of freshwater in simulations of water compensated fuel tanks to impede corrosive activity by SRB Gareth Williams</p>
16:45	Q&A Session	
17:05	Closing Remarks	
----	----	
20:30	Social Dinner	

Location: Faculdade de Ciências, Universidade de Lisboa, Portugal (https://ciencias.ulisboa.pt/)		
Time (h:min)	Friday, 26 July 2024 (Hybrid meeting)	
	Location: C6 building, Room 6.2.56	
8:30-9:00	Registration	
09:00	Welcome /Opening Remarks	
SESSION 3	Standardization: the lab-to-field transition Chairs: Julian Wharton & Rick Eckert	
09:15	KN3	Building Consensus: Advancing Standards and Innovation in Microbiologically Influenced Corrosion and Biofilms <i>Invited Speaker: Paulina D. Rakowska (National Biofilms Innovation Centre, UK)</i>
10:10-10:30	Coffee-Break	
10:30	O9	Integrating Multiple Lines of Evidence (MLOE): Essential for Diagnosis of Microbiologically Influenced Corrosion (MIC) Torben L. Skovhus
10:45	O10	Pilot Study of a Laboratory-Based Microbiologically Influenced Corrosion (MIC) Test Using Microbiological Consortia Sampled from the Field - Sara Kalajahi
11:00	O11	Investigating the Efficacy of THPS and Glutaraldehyde Treatment for Enhanced Performance on North Sea Offshore System - Tanmay Chaturvedi
11:15	O12	Dual anaerobic reactor model to study biofilm and microbiologically influenced corrosion interactions on UNS G10180 carbon steel - Liam Jones
11:30	Q&A Session	
12:15-14:00	LUNCH POSTER SESSION	
SESSION 4	Industry insights: Technology and regulatory challenges Chairs: Matt Snape & Maria Salta	
14:00	KN4	Biofouling assessment in the offshore renewable energy sector: challenges and expectations. <i>Invited Speaker: Pedro Vinagre (WAVEC Offshore Renewables)</i>
14:50	O13	Challenges and Opportunities in Corrosion Mitigation to Meet the Decarbonisation Journey <i>Invited Talk (Lloyd's Register): Martyn Wright & Heather Hughes & James Kwame</i>
15:15	O14	Investigating Microbiologically Influenced Corrosion in Hot Water Boilers: Mechanisms and Mitigation Strategies Milena Rajic
15:30	O15	New strategies for active corrosion protection of aluminium parts based on encapsulated inhibitors Andreu Ruiz
15:45	Q&A	
16:10-16:40	Coffee Break & Poster Session	
16:40	O16	Quick Enrichment and Detection of Electrochemically Active Microorganisms Satoshi WAKAI
16:55	Q&A Session	
17:00	Pitch	From Patents to Programmes - Supporting IPR Holders and Exploring Grants for all MIC-STAND members Theo Zacharis
17:15	Closing Remarks	
----	----	
20:00	Social Dinner	