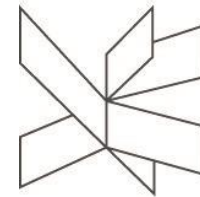


18th Nordic Corrosion Congress

May 31 - June 2, 2022

Torben Lund Skovhus
VIA University College

**European MIC Network: New paths
for science, sustainability and
standards executed via the newly
established COST Action CA20130
(EURO-MIC)**



VIA University
College



Outline

- ❑ Introduction and background
- ❑ The pandemic and the MIC community
- ❑ A good time in history for MIC R&D
- ❑ The COST CA20130 “EURO-MIC”
- ❑ The “Multiple Line of Evidence Approach”
- ❑ What’s next? & Get involved!



Early microbiologists looking at MIC



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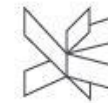
Developing the EURO-MIC network...



ISMOS⁷ Menu

7th International Symposium on Applied
Microbiology and Molecular Biology in Oil
Systems

 June 18-21, 2019 in Halifax Nova Scotia



VIA University
College



Bundesanstalt für
Materialforschung
und -prüfung

Sicherheit in Technik und Chemie

European Workshop
on Microbiologically
Influenced Corrosion
(MIC)

**INDUSTRIAL MANAGEMENT
OF MIC: TOWARDS SAFER AND
MORE SUSTAINABLE PRACTICES**

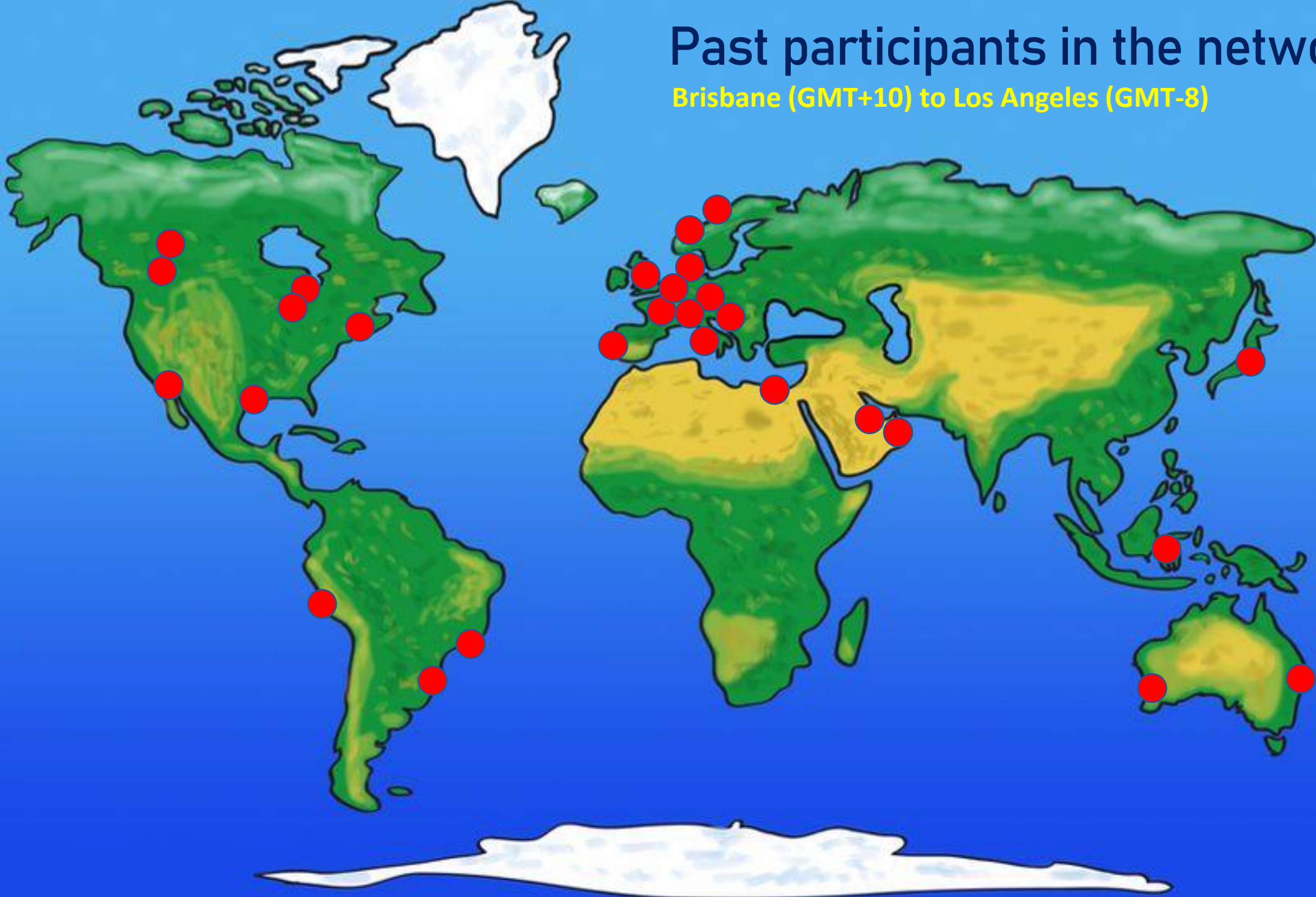
From 19th - 20th May 2020



2 years disruption

Past participants in the network

Brisbane (GMT+10) to Los Angeles (GMT-8)



Work flow for MIC Research Funding Pathway



2020/

3

15

2021:

Workshops

Webinars

1374

Participated

41

hrs of high
quality online
content on MIC

1

Funded EU
application

50/50

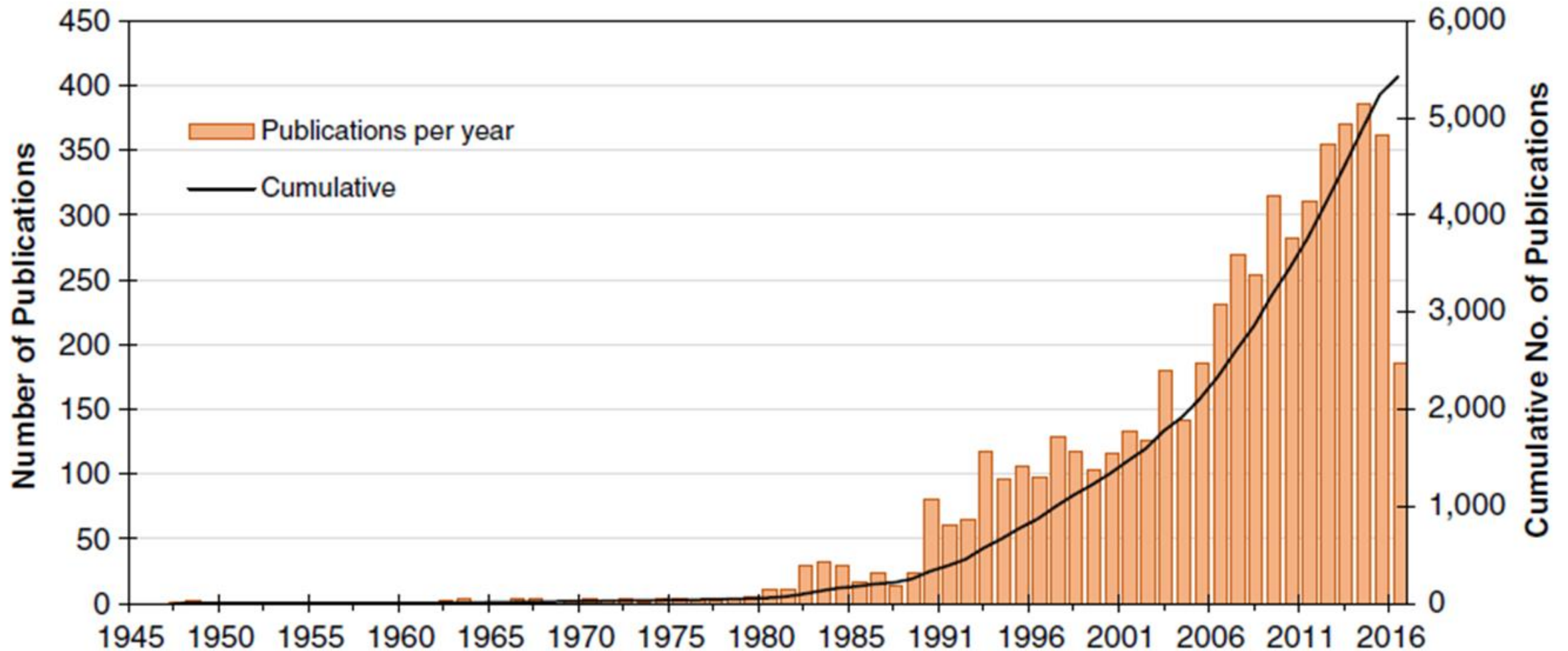
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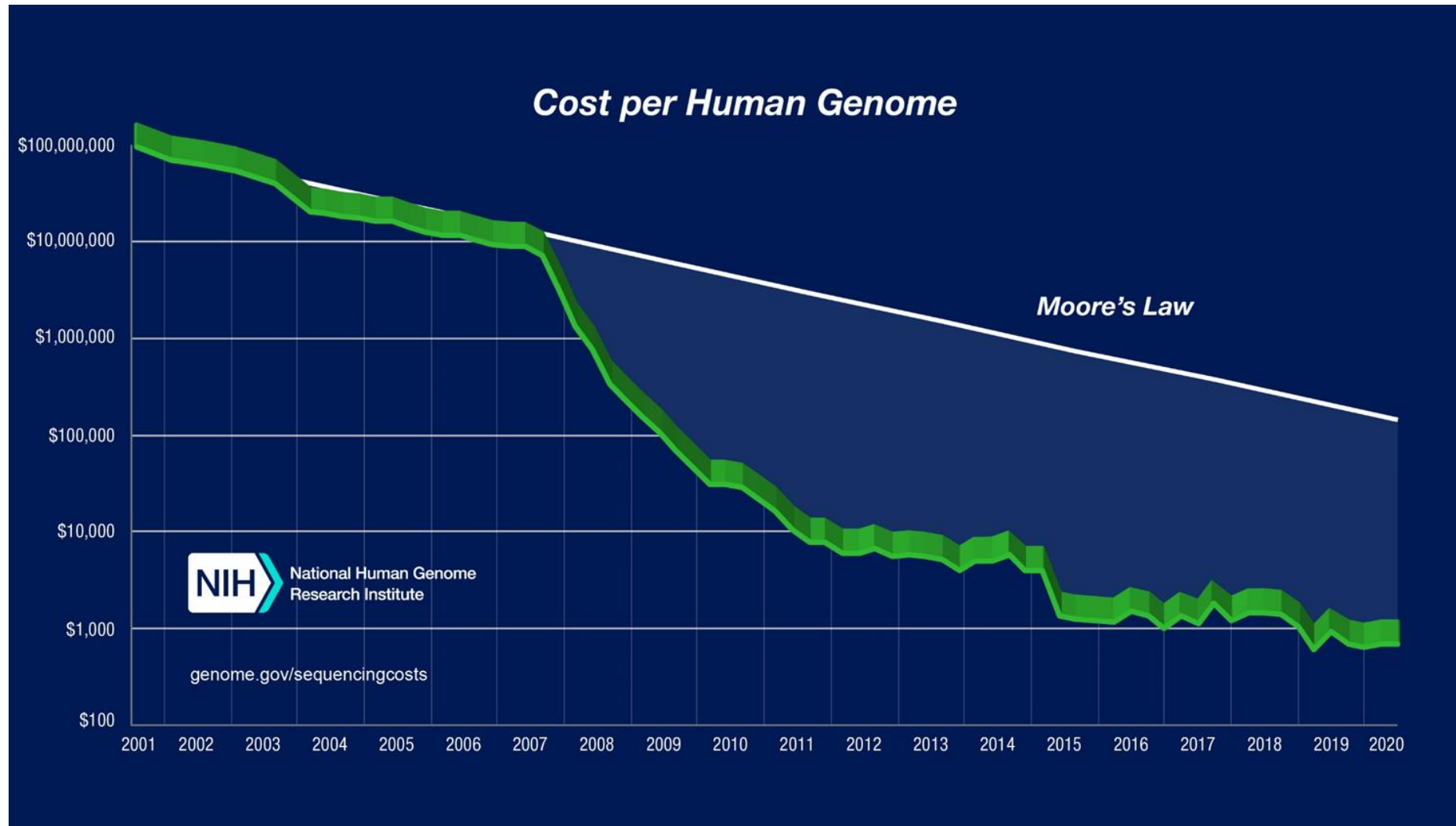
Early microbiologists looking at MIC

Papers published



[Bibliometric Analysis of Microbiologically Influenced Corrosion \(MIC\) of Oil and Gas Engineering Systems](#) (2017). CORROSION. <https://doi.org/10.5006/2620>

Cost of sequencing



DNA Sequencing Costs: Data <https://www.genome.gov/about-genomics/fact-sheets/DNA-Sequencing-Costs-Data>

Silos – how do we bridge the gap?

Silos of Scientific Disciplines:

- Chemistry, Biology, Material Science, Process Engineering, Corrosion Engineering, Risk and Integrity Management, etc.

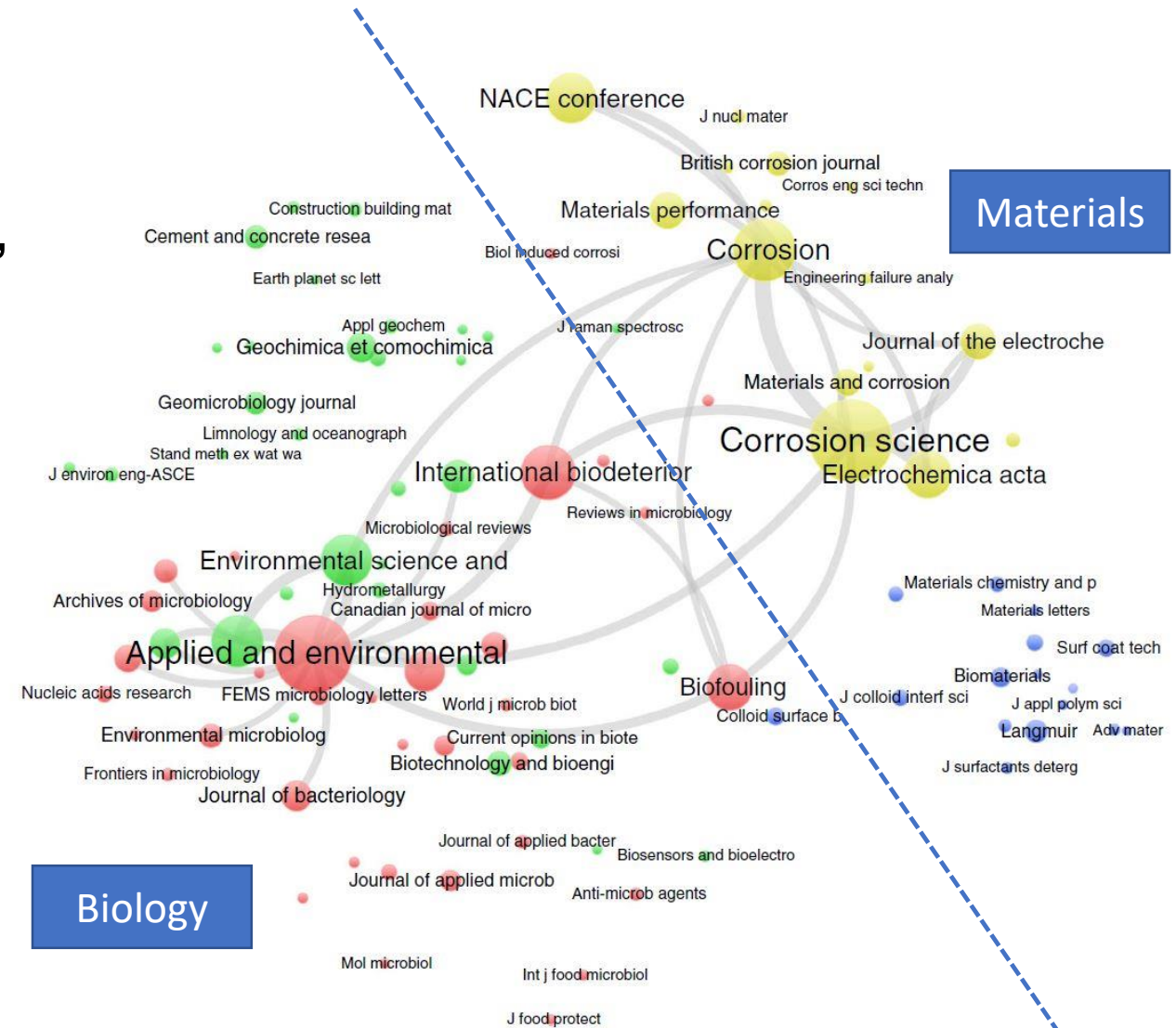
Where does MIC belong?

Industry vs. Academia

Practical vs. Fundamental

Fragmented landscape of journals, conferences and scientific research groups worldwide...

We need to design relevant experiments!!



CORROSION. <https://doi.org/10.5006/2620>

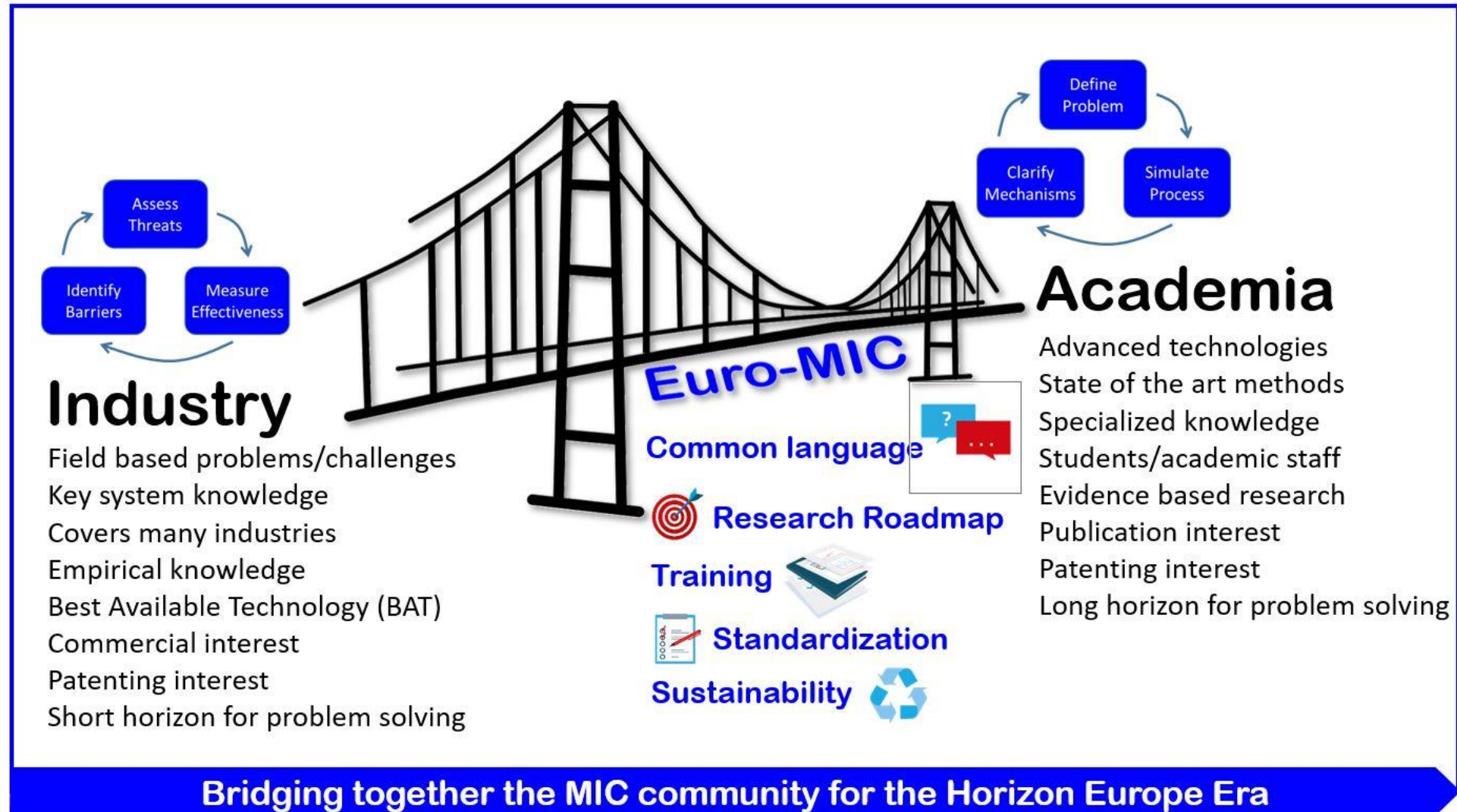
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Early microbiologists looking at MIC

COST Action – a path to bridge the gap





EU-Training ground: Summer schools, online course materials, stakeholder workshops
Effective dissemination: Conferences, policy papers, participation in regulatory committees
Public awareness: Educational resources and citizen science projects



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Start date - 26/10/2021

....

End date - 25/10/2025

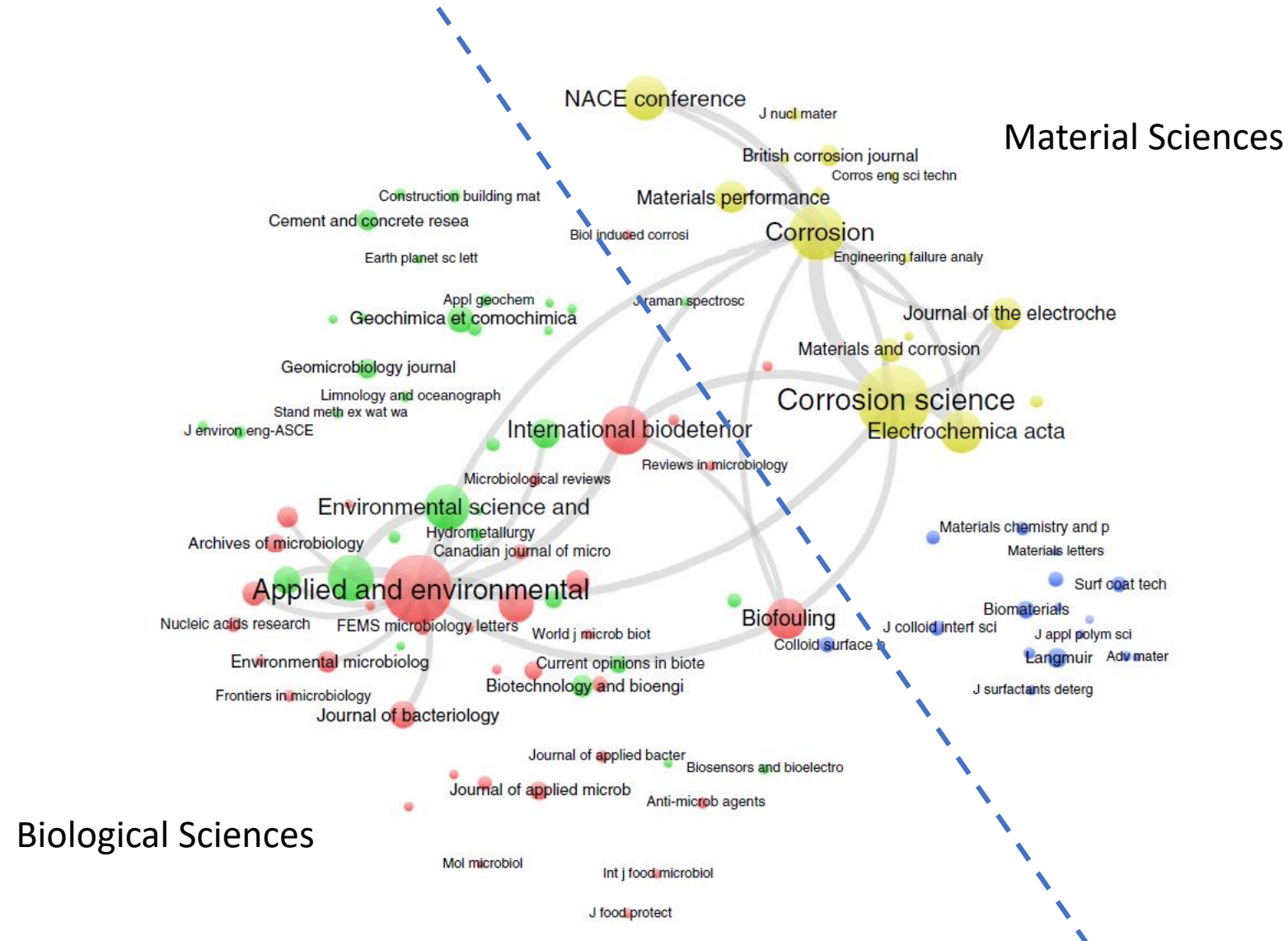
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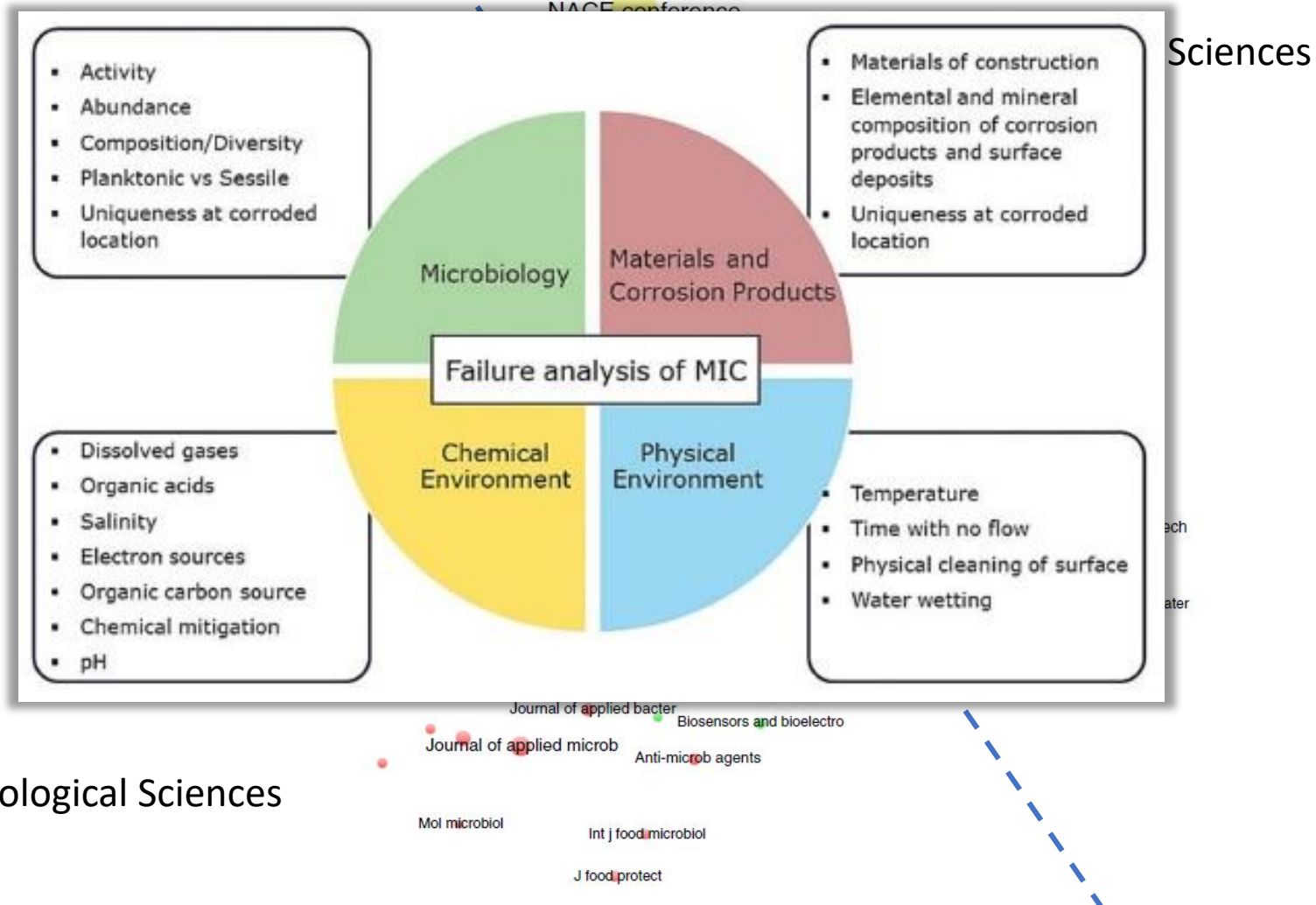


Early microbiologists looking at MIC

MIC: Highly siloed research field...



MIC: Highly siloed research field...



Our real challenge is true
collaboration among disciplines
for the benefit of our society



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Early microbiologists looking at MIC





SAVE THE DATE!

EFC Corrosion Summer School

The Role of Corrosion and Materials Science in the Transition to Net Zero Energy

25 to 27 August 2022
Berlin (Germany)
(preceding EUROCORR 2022)




Corrosion directly and indirectly impacts all societal infrastructures, including transportation facilities, offshore and onshore energy grid, sewage systems, drinking water systems, renewable fuel generation and storage, and maritime vessels and structures. Infrastructure plays an irreplaceable role in our society and yet is faced with increasingly greater challenges in terms of increased utilization and the drive for sustainability and reduced ecological impact. However, with the increased global temperatures and resulting environmental changes, understanding and managing the role of materials degradation and material selection in our industries, environment, and society, becomes an even more urgent topic for the next generation of corrosion experts and industry professionals.

This school is a great opportunity for graduate students and post-docs for further specialized training and to network with other colleagues.

Save the date and get ready for registering **only 25 seats will be available!**
Registration will open early-April! More information will be coming soon.

This school is co-organized by EFC's WP 7 & WP 4, Young EFC and COST-CA20130 European MIC Network.

Organizing Committee: D. Zander (RWTH Aachen University, Germany), T.L. Skovhus (VIA University College, Denmark), S. Ritter (PSI, Switzerland), M. Moledano (Universidad Complutense de Madrid, Spain), A. Heyn (Otto-von-Guericke-Universität Magdeburg, Germany), Y. Gonzalez-Garcia (Delft University of Technology, The Netherlands), M. Babutzka (BAM, Germany).















Microbiologically influenced Corrosion

European MIC Network – New paths for science, sustainability and standards

COST Conference/Workshop



Microbiologically influenced Corrosion

Come and participate in our first Euro-MIC conference/workshop, which will take place right before the international [EUROCORR 2022](#) conference in Berlin, Germany. If you are living in an ITC country and you will give a talk or present a poster, as COST member you can apply for the [ITC-grant](#) of 1200 Euro. In addition to renowned international speakers from academia and industry, you also have the opportunity to discuss your own MIC research by submitting an abstract to one of the following topics:

- MIC Mechanisms, Methods and Modelling
- MIC & Corrosion Protection of Water Systems
- MIC in Marine Environment & Corrosion Transport Systems
- MIC Monitoring & Mitigation
- MIC & Green Energy Systems
- MIC and Field/ Damages Cases
- Biofouling in Industrial Systems

Confirmed invited Speakers

Elsiemiek Croese | Rick Eckert | Maria Salta | Turid Liengen
Lisa Gieg | Dennis Enning | Andreas Erbe

When, where and how?

August 26, 2022
at
Bundesanstalt für Materialforschung und -prüfung (BAM)
Unter den Eichen 87,
12205 Berlin,
Germany

Call for Abstracts
Deadline **June 15**
Registration: opens start of
April 2022

[Further Information](#)

Contact details

Torben Lund Skovhus, MSc, PhD
Docent and Project Manager

**VIA Built Environment, Energy, Water and
Climate - Centre for Applied Research &
Development**

VIA University College
Banegaardsgade 2
DK-8700 Horsens

T: +45 87 55 42 96

E: tols@via.dk

Link: [Corrosion & Materials](#)

Link: [References and activities](#)



 @Torben_Skovhus

