

Session Program

21-23 Oct 2025

Tribocorrosion International Conference 2025

Tribocorrosion science: new challenges and opportunities

Arcotel Wimberger
Neubaugürtel 34-36 Vienna, 1070 Austria

Tuesday 21 October

14:10

Tribocorrosion science: new challenges and opportunities

Session | **Location:** Arcotel Wimberger, Neubaugürtel 34-36 Vienna, 1070 Austria

14:10–14:30

New challenges and perspectives for tribocorrosion science

Speaker

Anna Igual Munoz

14:30–15:00

PLENARY TALK : Bearings in Hydrogen Environments - An Industrial Perspective

Speaker

Claes OLSSON

15:00–15:20

Effect of hydrogen charging on tribocorrosion performance of C45CE steel

Speaker

Marcin Kowalski

15:20–15:40

Influence of diffused hydrogen on the surface response of 316L stainless steel under cavitation-induced loading

Speaker

Morteza Abedini

15:40

16:10

Tribocorrosion science: new challenges and opportunities

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16:10–16:40

PLENARY TALK : Innovative Dual-Fuel Engines for Maritime Decarbonization—Challenges and Solutions

Speaker

Dr Andrea Arcifa

16:40–17:00

PTFE and MoS₂ as two competing solid lubricants for dry-running hydrogen compressors

Speaker

Dr Alexander Pöllinger

17:00–17:20

Tribological characterization of high-performance polymer composite (HPPC) for compressor piston rings in hydrogen environment

Speaker

Andreas Nevosad

17:20–17:40

Development and Validation of an Integrated Real-Time Tribocorrosion Assessment Framework

17:40

Speaker
Mike Bryant