

# Tribology Days 2021



## Program

All times in Central European Time (CET)

### Session 1 - Chairperson Prof. Roland Larsson

9.00 Welcome and opening of Tribodays 2021 - organised together with Klüber Lubrication Nordic

9.15 "Klüber Lubrication in brief", Torsten Schwarz, Klüber Lubrication, Sweden

9.45 "Grease behaviour in rolling-sliding contacts - On the neglected thickener effects",  
Balasubramaniam Vengudusamy, Klüber Lubrication, Germany

### Session 2 - Chairperson Assoc. Prof. Jens Hardell

10.30 "Modelling the durability of sliding contacts", Michael Pusterhofer, Montanuniversität, Leoben, Austria

11.00 On sustainable hydraulic fluids, Charles Anthony Bates, Danfoss Power Solutions, Denmark

11.30 "The new lubrication film parameter", Jonny Hansen, Scania and Luleå University of Technology, Sweden

12.00 LUNCH BREAK

### Session 3 - Chairperson Prof. Nazanin Emami

13.00 "An innovative approach to reduce friction from boundary to hydrodynamic lubrication", Juliette Cayer-Barrioz, Ecole Central de Lyon, France

13.30 "Development of Raman-based profilometry for realizing nanoscale coating wear measurement and exploring the tribochemical mechanisms of coating/additive interaction", Nan Xu, Leeds University, UK

14.00 "High temperature lubrication: challenges and opportunities", Justine Decrozant-Triquenaux, Luleå University of Technology, Sweden

### Session 4 - Chairperson Prof. Ichiro Minami

15.00 "Real-Time and Online Lubricating Oil Condition Monitoring Enabled by Triboelectric Nanogenerato", Yijun Shi, Luleå University of Technology, Sweden

15.30 "Are Environmentally Acceptable Lubricants (EALs) suitable for Mining?", Justin Koozer, Craig Desrochers, Klüber Lubrication, USA

16.00 "A Multi-scale Contact Temperature Model for Dry Sliding Rough Surfaces", Jamal Choudhry, Luleå University of Technology, Sweden

16.30 Closure