



# Tribology Exchange Workshop

Wednesday 6<sup>th</sup> – Thursday 7<sup>th</sup> November 2019.

Marriott Courtyard Schiphol-Amsterdam

## Programme

| Wednesday 6 <sup>th</sup> November 2019 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Rooms 8,9,10 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 08:00-08:30                             | Registration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Foyer        |
| 08:30-10:00                             | TRIBOLOGY FUNDAMENTALS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |
|                                         | Amir Kadiric (Imperial College) Fundamentals on EHL Film Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |
|                                         | Ian Taylor (Shell) The Physics of Friction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |
|                                         | Guillermo Morales (SKF) Fundamentals of Bearing Tribology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |
| 10:00                                   | Coffee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Foyer        |
| 10:30-12:00                             | MECHANICAL ENGINEERING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |
|                                         | F. Xavier Borrás (University of Twente) Rotary Lip Seals: A Misaligned Approach                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |
|                                         | Hannes Grillenberger (Schaeffler) Bearing Design for Dynamic Operating Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |
|                                         | Piet Lugt (SKF) Grease Life in Rolling Bearings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |
| 12:00                                   | Lunch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Brasserie    |
| 14:00-15:30                             | MATERIAL SCIENCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |
|                                         | Alfons Fischer (MPI Eisenforschung) Material Science Aspects of the Wear of Metallic Materials                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                                         | Sebastian Schwarz (Uni Erlangen) Cage dynamics in Rolling Bearings by Test and Simulation                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |
|                                         | Vasilios Bakolas (Schaeffler) Surface Texturing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |
| 15:30                                   | Coffee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Foyer        |
| 16:00-17:30                             | Round Table Discussions: If you would like to share your experience or have any questions on the above mentioned topics please submit your enquiry to <a href="mailto:europe@stle.org">europe@stle.org</a> . . RTD format information: <a href="https://www.stle.org/images/pdf/STLE_ORG/AM2018%20Presentations/AM%20Roundtable/STLE2018_Session%20L_H.%20Grillenberger_DRT_AM18_wrapup.pdf">https://www.stle.org/images/pdf/STLE_ORG/AM2018%20Presentations/AM%20Roundtable/STLE2018_Session%20L_H.%20Grillenberger_DRT_AM18_wrapup.pdf</a> |              |
| 19:00                                   | Dinner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Barraca      |
| Thursday 7 <sup>th</sup> November 2019  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Rooms 8,9,10 |
| 08:30 - 10:00                           | TRIBOLOGY TESTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |
|                                         | Mathias Woydt (Matrilib) Roller-on-Disk Geometry for Extreme Pressure Gear Oils                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |
|                                         | Florian Rummel (Anton Paar) Food Tribology: Concepts and Experimental Approaches                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |
|                                         | Dirk Drees (Falex Tribology NV) How to Approach a Real World Tribology Problem on Lab Scale                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |
| 10:00                                   | Coffee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Foyer        |

10:30-12:00 LUBRICANT CHEMISTRY

Dmitriy Shakhvorostov (Evonik) Chemical Approach to Energy Savings in Hydraulic Applications

Steffen Botts (Lubevisio) Silicone Fluids with Optimized Tribological Behaviour through Molecule Structure Enhancement - A Solution for EV drivetrains

Henrik Buse (Hochschule Mannheim) Fretting Wear Tests – Basics, Industrial Relevance and Test Realisation

12:00 Lunch

Brasserie

14:00-15:30 APPLICATIONS

Christian Mathis Ullrich (SuSoS AG) Blink of an Eye - A Biotribology Quest Towards Patient Comfort

Aleksandra Nevskaya (DDP Specialty Products Germany GmbH & Co.KG) Grease Applications

Olav Hoeger (Shell) Lubricant Challenges in Wind Turbine Applications

15:30 Coffee

Foyer

16:00-17:30 Round Table Discussions: If you would like to share your experience or have any questions on the above mentioned topics please submit your enquiry to [europe@stle.org](mailto:europe@stle.org). . RTD format information: [https://www.stle.org/images/pdf/STLE\\_ORG/AM2018%20Presentations/AM%20Roundtable/STLE2018\\_Session%206L\\_H.%20Grillenberger\\_DRT\\_AM18\\_wrapup.pdf](https://www.stle.org/images/pdf/STLE_ORG/AM2018%20Presentations/AM%20Roundtable/STLE2018_Session%206L_H.%20Grillenberger_DRT_AM18_wrapup.pdf)

| For Organisational Questions:                                                                                                                                                                                                 | For Technical Questions: Workshop Chairmen                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                            |
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