



6<sup>th</sup>–7<sup>th</sup> November 2019  
Courtyard Marriott -Amsterdam



## Programme Tribology Exchange Workshop

### Wednesday 6<sup>th</sup> November 2019

#### 08:30-10:00 TRIBOLOGY FUNDAMENTALS

|                             |                                                             |
|-----------------------------|-------------------------------------------------------------|
| Philippe Vergne (INSA Lyon) | Fundamentals of EHL film thickness formation and prediction |
| Ian Taylor (Shell)          | The Physics of Friction                                     |
| Guillermo Morales (SKF)     | Fundamentals of Bearing Tribology                           |

10:00-10:30 Coffee

#### 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                 |

12:00-14:00 Lunch

#### 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                                          |

16:00-17:30 Round Table Discussions

19:00 Dinner

### Thursday 7<sup>th</sup> November 2019

#### 08:30-10:00 TRIBOLOGY TESTING

|                              |                                                             |
|------------------------------|-------------------------------------------------------------|
| Mathias Woydt (Matrilub)     | Roller-on-Disk Geometry for Extreme Pressure Gear Oils      |
| Florian Rummel (Anton Paar)  | Food Tribology: Concepts and Experimental Approaches        |
| Dirk Drees (Falex Tribology) | How to Approach a Real World Tribology Problem on Lab Scale |

10:00-10:30 Coffee

#### 10:30-12:00 LUBRICANT CHEMISTRY

|                                   |                                                                         |
|-----------------------------------|-------------------------------------------------------------------------|
| Michaël Alibert (Evonik)          | Chemical Approach to Energy Savings in Hydraulic Applications           |
| Amir Kadiric (Imperial College)   | EHL Film Formation and Chemistry of Base Oils                           |
| Henrik Buse (Hochschule Mannheim) | Fretting Wear Tests – Basics, Industrial Relevance and Test Realisation |

12:00-14:00 Lunch

#### 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) | Grease Applications                                            |
| Olav Hoeger (Shell)                                  | Lubricant Challenges in Wind Turbine Applications              |

16:00-17:30 Round Table Discussions

Discussion Round Table Topics:

(1) Digital Transformation in Tribology; Deepak Veeregowda (Ducom Instruments Europe)

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