



PROGRAM

TRIBOLOGY OF THE LOW COUNTRIES

April 28th – 29th, 2022

Gent, Belgium



Module 1 – Workshop Friction & Wear + Laboratory Visit

April 28th 2022

Chairperson: P. De Baets

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| 8.45 | - | 9.20 | Registration & welcome coffee |
| 9.20 | - | 9.30 | Welcome - Prof. P. De Baets |
| 9.30 | - | 10.15 | Wear of Mechanical Components
<i>Prof. Rob Dwyer-Joyce (Sheffield, UK)</i> |
| 10.15 | - | 10.30 | Coffee break |
| 10.30 | - | 11.00 | Design and maintenance of heavily loaded sliding bearings
<i>ir. Dajo Geys (De Vlaamse Waterweg n.v.)</i> |
| 11.00 | - | 11.30 | Maintenance free bearings
<i>ing. Erik Dorst (Drie-D)</i> |
| 11.30 | - | 12.00 | Tribology, Fatigue & Fracture @ Soete Laboratory
<i>Dr. ir. Koen Van Minnebruggen, Dr. ir. Karen Hemelsoet</i> |
| 12.15 | - | 13.00 | Sandwich Lunch |
| 13.00 | - | 13.30 | Bus transport |
| 13.30 | - | 15.15 | Guided visit to Soete Laboratory |
| 15.15 | - | 15.45 | Bus transport |
| 15.45 | - | 16.00 | Coffee break & Welcome Sarton |
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Module 2 – Sarton Medal Ceremony

April 28th 2022

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| 16.00 | - | 16.20 | Sarton Medal Ceremony
- Introduction by <i>Prof. R. Rubens, UGent, Chairman Sarton Committee</i>
- Laudatio <i>Prof. D. Fauconnier, UGent</i> |
| 16.20 | - | 17.30 | Milestones in Tribology in the Low Countries – <i>ir. Harry van Leeuwen, Technische Universiteit Eindhoven (TU/e)</i> |
| 17.30 | - | 19.30 | Reception & walking dinner |
| 20.00 | - | 21.00 | Organ concert by Jaco van Leeuwen on the monumental Van Peteghem organ of the St. Pieters church |
| 21.00 | - | 22.00 | Closing Drink |
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Module 3 – Seminar: Tribology Of The Low Countries

April 29th 2022

Chairperson: D. Fauconnier

- 8.30 - 9.00 Registration & welcome coffee
- 9.00 - 9.15 Welcome - Prof. P. De Baets
- 9.15 - 9.45 Geotribology: friction in granular materials.
Dr. Tanmaya Mishra, UTwente
- 9.45 - 10.30 Pitches of ongoing Research in the Low Countries
1. A tribological approach towards oral tactile perception of astringency in plant-based products – *Shari Gamaniel, U Twente*
 2. Coupling effect of wear and rolling contact fatigue in line contact problems: modelling of damage profile evolution and fatigue life assessment – *Mostafa Gargourimotlagh, UTwente*
 3. Enhancing Interfacial Bonding in Metal-Thermoplastic Joints by Plasma Electrolytic Oxidation – *Atiyeh Adelina, UTwente*
 4. Magneto-rheological lubricated journal bearing design – *Gerben van der Meer, TU Delft*
 5. Compliant hydrostatic bearing design – *Dave Sonneveld, TU Delft*
- 10.30 - 10.45 Coffee Break
- 10.45 - 11.15 Cryogenic roller bearings
Prof. Jean-Luc Bozet, Université de Liège
- 11.15 - 12.00 Pitches of ongoing Research in the Low Countries
1. EHL theory applied to nano-imprint lithography – *Jelle Snieder, TU Delft*
 2. Multi-scale modelling of Thermo-Elastohydrodynamic Lubrication (TEHL) in Bearings and Gears – *Peyman Havaej, UGent*
 3. In-Situ Measurement of Thermo-Elastohydrodynamic Lubrication (TEHL) in Rolling Element Bearings at dynamic operating conditions – *Manjunath Manju, UGent*
 4. The process of churning in grease-lubricated bearings – *Sathwik Chatra, UTwente*
 5. Numerical Modelling of Multi-Valued Friction Behaviour of Rough Lubricated Surfaces – *Kristof Driesen (KUL)*
 6. Experimental simulation of erosion of agricultural tools – *Adam Kalácska, UGent*
- 12.00 - 13.00 Scientific Poster Presentations
- 13.00 - 14.00 Sandwich lunch
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CONTACT

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🌐 <https://www.ugent.be/ea/eemmecs/en/research/soete>

 <https://www.linkedin.com/company/soete-laboratory/>

