16th ARNOLD TROSS COLLOQUIUM
11 of JUNE 2021

Hamburg Universität of Applied Sciences
Tribology Research Center (TREC)

HAMBURG UNIVERSITY OF APPLIED SCIENCES

Tribology Research Center (TREC)
Institute of Eng. Design and Prod. Dev.
Dep. of Mech. Eng. and Prod.
Prof.Dr. E.Kuhn
https://www.haw-hamburg.de/tribologie/arnold-tross-colloquium/

Program of the 16th Arnold Tross Colloquium
at the 11th of June 2021

Morning - moderation E.Kuhn

10:00 Welcome and opening .*Prof.Dr. E.Kuhn, HAW Hamburg*

10:10 The importance of Petrus van Musschenbroek for tribology. *Univ. Doz. H.v.Leeuwen,*
. *TU Eindhoven*

10:40 Correlation between grease properties and starved lubrication in rotary shaft seals.
. *Susanne Hahn M.Sc., Dipl.-Ing. Simon Feldmeth, PD Dr.-Ing. Frank Bauer*
. *University Stuttgart*

11:10 Electrorheological behaviour of nanocellulose-based ecolubricant for electro-tribological
. applications. *Prof.Dr. Miguel Angel Delgado Canto, , Samuel David Fernández Silva,*
. *M.Sc., Claudia Roman, M.Sc., Prof.Dr. Moisés García Morales , University of Huelva*

11:40 Characterizations of Lubricant-Additive-Formulations with Different ToF-SIMS Methods.
. *Dr. Dr. U. Gunst, Analytical Tribology Network (ATN) Münster*

12:10 The inherent reaction of lubricating greases to changes in stress.
. *Prof.Dr. E.Kuhn, HAW Hamburg*

Time for Lunch 12:40 - 14:00

Posters will be presented at the conference page at our home page

Afternoon - moderation H.v. Leeuwen

14:00 Molecular Dynamics simulations for constitutive modelling of Elastohydrodynamic
. Lubricants. *Gözdenur Toraman, M.Sc., Prof.Dr. Dieter Fauconnier, University of Ghent*

14:30 A lubricant-rubber compatibility test on simplified samples taking into account the contact
. tribology of radial shaft seals. *Laura Stubbe,M.Sc., Prof.Dr. Stefan Thielen,*
. *Christoph Burkhart,M.Sc. Prof.Dr. Bernd Sauer, MEGT University Kaiserslautern*

15:00 Squeeze tests on lubricating greases to determine the fulling work in rolling bearings.
. *Dipl.-Ing. Thomas Rieling, HAW Hamburg*

15:30 Study of structural-phase and tribological properties of coatings on the basis of aluminum
. oxide, obtained by the detonation method. *Dr. Kantay Nurgamit, Sarsen*
. *Amanzholov East Kazakhstan University, Prof. Dr. M.Paszkowski, Wroclaw University of Science*
. *and Technology*

16:00 Conclusion and Outlook

We hope for an interesting and joyful tribological conference