



# 4<sup>th</sup> YOUNG TRIBOLOGICAL RESEARCHER SYMPOSIUM

Online in the virtual space

Patron: Prof. Dr.-Ing. Adrian RIENÄCKER

## 7. & 8. June 2021

### **Focus of the symposium:**

- presentation of young researchers' projects and theses
- discussing new research topics and ongoing research projects
- providing an „exercise platform“ for major conferences
- stage for young scientists and young tribologists

### **Organization committee:**

Rebekka DRAFZ  
FUCHS Schmierstoffe GmbH  
László KATONA  
AC2T research GmbH  
Dennis MALLACH  
Westfälische Wilhelms-  
Universität Münster  
Max MARIAN  
Friedrich-Alexander-  
University Erlangen-  
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### **contact and information**

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<https://junge-tribologen.de/>

**Monday, 7<sup>th</sup> June 2021**

16:00 – 16:30 (CET)	Opening / Welcome	Rebekka DRAFZ	Junge Tribologen
		Adrian RIENÄCKER	University of Kassel
16:30 – 16:55	Lubrication control with electrical potentials using ionic liquid mixtures	Felix GATTI	Fraunhofer IWM
16:55 – 17:20	Viscosity calculation using molecular dynamics simulations	Lars KRUSE	Fraunhofer IWM
17:20 – 17:45	Oil formulation influence on friction conditions in gear contacts and related gearbox efficiency	Tobias KOBLMILLER	Magna Powertrain
17:45 – 18:10	Evaluation of chemical and tribometrical data of engine oils by multivariate statistics	Bettina RONAI	AC2T Research

**Tuesday, 8<sup>th</sup> June 2021**

16:00 – 16:05 (CET)	Opening / Welcome	Rebekka DRAFZ	Junge Tribologen
16:05 – 16:30	Transient EHL-simulation of a cam-tappet contact considering edge effects and roughness influence	Christian ORGELDINGER	University of Bayreuth
16:30 – 16:55	Biotribological behavior of amorphous carbon coatings on Co28Cr6Mo alloy and UHMWPE	Kevin NEUSSER	FAU Erlangen
16:55 – 17:20	Roughness reduction of ta-C coating (DLC) plus simultaneously creating a run-in layer using a nanosecond pulsed laser	Emanuel TACK	Oerlikon Surface Solutions
17:20 – 17:45	Advancements in tribo-acoustic measurements in rolling element bearings	Fabio TATZGERN	AC2T Research
17:45 – 18:10	Study of dynamic effects on a pin-on-disc tribometer	Josef PROST	AC2T Research
18:10 – 18:30	“Best presentations” Award Farewell		

To get access and participate, please register under:

<https://junge-tribologen.de/en/symposia/2020-4/registration-2/>