

October 3-4, Portorož, Slovenia

Conference preliminary programme

08:00 08:50	Registration
08:50 09:00	Opening
	Session 1
09:00 09:40	Invited talk: M. Moseler , Fraunhofer Institute for Mechanics of Materials IWM, Freiburg, Germany <i>Friction and wear mechanisms of PTFE by atomistic simulations: transfer film formation and the synergy between PTFE and PEEK</i>
09:40 10:00	C. Koplín , Fraunhofer Institute for Mechanics of Materials IWM, Freiburg, Germany <i>The effect of interaction energies on friction and wear of lubricated polymers</i>
10:00 10:20	E. Schwartz , SABIC Specialties Plasticslaan, Bergen op Zoom, The Netherlands <i>Lubricated alloys without PTFE for wear and friction applications</i>
10:20 10:40	Y. Sawae , Faculty of Engineering, Kyushu University, Japan <i>Contaminant emission from PPS-filled PTFE sliding in high purity hydrogen</i>
10:40 11:00	Coffee & poster session
	Session 2
11:00 11:20	G. Theiler , Federal Institute for Materials Research and Testing (BAM), Berlin, Germany <i>On the way to sustainable and hydrogen compatible sealing materials</i>
11:20 11:40	T. Horiuchi , NOK corporation, Fujisawa, Japan <i>In situ observation of grease lubricating film on rubber material for sealing by micro-infrared spectroscopy</i>
11:40 12:00	P. Beau , Beau Engineering Services, Cremlingen, Germany <i>Biobased oligomeric and polymeric thickener systems for lubricating grease - potential applications based on tribotesting data</i>
12:00 12:20	H. Saito , Hitachi, Ltd., Research and development Group, Japan <i>Effect of the copper filler micro-structure on the wear of PTFE Composites</i>
12:20 13:40	Lunch & poster session
	Session 3
13:40 14:20	Invited talk: M. Masen , Imperial College, London, UK <i>In-situ tribometry for assessing ultralow polymer wear</i>
14:20 14:40	H. Shinmori , Faculty of Engineering, Kyushu University, Fukuoka, Japan <i>Friction and wear of PTFE and PEEK composites in high-pressure hydrogen gas</i>
14:40 15:00	H. Tanaka , Faculty of Engineering, Kyushu University, Fukuoka, Japan <i>Friction and wear of several elastomers in hydrogen</i>
15:00 15:20	M. Kröll , Federal Institute for Materials Research and Testing (BAM), Berlin, Germany <i>Harmonised tribological testing of polymers in hydrogen</i>
15:20 15:40	H. Hashimoto , NOK corporation, Fujisawa, Japan <i>Analysis of worn rubber surface after sliding test in hydrogen</i>
15:40 16:00	Coffee & poster session
	Session 4
16:00 16:40	Invited talk: S. Kumar Sinha , IIT Delhi, New Delhi, India <i>High-performance polymer composites for tribology</i>
16:40 17:00	N. Emami , Luleå University of Technology, Luleå, Sweden <i>Tribological behavior of UHMWPE and its composite</i>
17:00 17:20	B. Jakab , AC2T research GmbH, Wiener Neustadt, Austria <i>Correlation between wear and excitation frequencies of composite materials in rolling contact using a 3D vibrometer</i>
17:20 17:40	X. Wang , Lanzhou Institute of Chemical Physics, Chinese Academy of Sciences, Lanzhou, China <i>VAT photopolymerization 3D printing of self-lubrication polymer composites</i>
17:40 18:00	Ú. Arinbjarnar , Technical University of Denmark & LEGO Group, Denmark <i>Using acoustic emissions to evaluate friction in polymer contacts</i>
20:00 22:00	Gala dinner



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Day 2

Session 5

08:30 09:10	Invited talk: K. Mao , University of Warwick, UK <i>The performance enhancement of polymer composite gears</i>
09:10 09:30	H. Ronkainen , VTT Technical Research Centre of Finland, Espoo, Finland <i>Development of abrasive wear resistance of polymers and scratch resistance of elastomers</i>
09:30 09:50	N. Osolnik , Faculty of Mechanical engineering, University of Ljubljana, Slovenia <i>Parametric study of wear behavior of polymer gears</i>
09:50 10:10	T. Kunishima , JTEKT Corporation, Kashiwara, Japan <i>Long life durability and tribology of polymer worm reducer for electric power steering</i>
10:10 10:30	M. Tockner , Polymer Competence Center Leoben GmbH, Leoben, Austria <i>The influence of temperature on fretting wear of elastomers</i>
10:30 10:50	Coffee & poster session

Session 6

10:50 11:30	Invited talk: R. Gnanamoorthy , IIT Madras, Chennai, India <i>Tribo behaviour of natural fibres for sustainable technical textile applications</i>
11:30 11:50	P. Staudinger , Anton Paar GmbH, Graz, Austria <i>Tribology of natural fibre polymer composites at adsorption</i>
11:50 12:10	R. Jackowiak , DuPONT, Geneva, Switzerland <i>The influence of metallic alloys on polymeric tribological properties</i>
12:10 12:30	P. Gangwani , Faculty of Mechanical engineering, University of Ljubljana, Slovenia <i>Investigating the role of a hard nano-filler on the tribological performance of multi-scale UHMWPE composites under water-lubricated condition</i>
12:30 12:50	D. Drees , Falex Tribology NV, Rotselaar, Belgium <i>An efficient testing strategy for polymer materials, accelerating data production towards AI?</i>
12:50 14:10	Lunch & poster session

Session 7

14:10 14:50	Invited talk: A. V. Sumant , Argonne National Laboratory, Illinois, USA <i>Title to be announced</i>
14:50 15:10	B. Jakab , AC2T research GmbH, Wiener Neustadt, Austria <i>Tribological properties of high-performance polymer thin coatings for cleaning-intensive surfaces</i>
15:10 15:30	M. Unterreiter , Polymer Competence Center Leoben GmbH, Leoben, Austria <i>A study of manufacturing settings: impact on the mechanical and tribological properties of filled nitrile butadiene rubber</i>
15:30 15:50	K. Ormanbekov , Shakarim University, Semey, Kazakhstan <i>Influence of electron beam irradiation on tribological and mechanical properties of polytetrafluoroethylene</i>
15:50 16:10	M. Kamaraj , IIT Madras, Chennai, India <i>Enhanced friction reduction using 2D MoO₃-hBN heterostructures as lubricant additives in PAO oil</i>
16:10 16:20	Closure

