

	Name	Title	Keywords	University/Company
	Plenary Session 1; Albano Cavaleiro	Close to zero friction of sliding induced self-alignment of transition metal dichalcogenides coatings	self lubrication, low friction coatings, super low friction, sputtering	University of Coimbra, Portugal
	Plenary Session 2; Martin Priest	Friction and Durability of the Piston/Cylinder Interface in Reciprocating Engines	film thickness, lubricant, degradation, tribology, wear	School of Mechanical Engineering, University of Leeds, England
	Plenary Session 3; Mathew Mate	Improved Understanding of Lubrication at the Molecular level and its Impact on Technology	lubrication, disk drive tribology	HGST, a Western Digital company, USA
	Plenary Session 4; Martin Müser	Friction mechanisms at small and large scales: New insights from computer simulations	Kinetic friction, computer simulations, relations to practical applications.	Forschungszentrum Jülich, Germany
1	Hamidreza Pirayesh	Study the lubrication behaviour of chemical mechanical polishing (CMP) of highly boron doped polysilicon at moderate and high polish velocities	lubrication, boundary lubrication, dry lubrication, chemical mechanical polishing	University of Alberta
2	Fadi Ali	Overcoming starvation in EHL point contacts by enhanced replenishment	starvation, replenishment, EHL, friction, film thickness	Brno University of Technology, Mech. Eng.
3	Haytem Kasem	Effect of counterface roughness on adhesion of mushroom-shaped microstructure	biomimetic, fibrillar adhesives, pull-off force, surface of topography	Israel Institute of Technology, Mech Eng
4	Victor Musalimov	Modelling of nonlinear dynamic of mechanic systems with the force tribological interaction	handling of optical glasses, tribometric device, friction models, nonlinearity tribological interaction, simulation in matlab	Nat. Research Universith of Information technologies, mechanics and optics, Sct. Petersburg
6	Beate Schleif	Friction investigation with thermally sprayed Fe-based coatings for application on cylinder running surfaces in combustion engines	thermal spray coating, wire-arc spray, cylinder bore, boundary friction	BMW Group, Produktionstechnik Antriebssysteme
7	Dipankar Choudhury	The influence of diamond like carbon coated surfaces on friction and film thickness to a bovine ceramic lubration conditions	diamond like carbon, bovine serum, friction coeffecient, film thickness	Brno University of Technology, Mech. Eng.
8	Reija Suihkonen	Erosion wear of glass fibre reinforced vinylester	erosion wear, FRP, glass fibre, vinylester composite	Tampere University of Technology, dept. Materials science
9	Dr. Ing. Balázs Magyar	Theoretical analysis of the local load situation of rough surfaces	generation of rough surface, contact calculation, temperature calculation, stress under the surface	University of Kaiserslautern, institute of machine elements
10	Richard Salant	Simulation of hydraulic rod seal with a micro-patterned rod	hydraulic seal, rod seal, reciprocating seal, micro patters	Georgia Institute of Technology, Atlanta
11	Dr. Ken Mao	The Wear and Thermal Mechanical contact behaviour of Polymer Gears	wear, polymer gear, specific wear rate	School of Engineering, The University of Warwick, UK
12	Johan Leckner	Grease + Water = fatal attraction?	lubrication, lubricating grease, water contamination, water ingress, laboratory tests, field data	Axel Christiernsseon Int. AB, Sweden
13	Ben Beake	The use of high temperature nanomechanics in designing coatings with improved wear resistance in high-speed machining	nanomechanics, high-speed machining, multifunctional coatings, adaptive behaviour	German Fox-Rabinovich, McMaster University, Canada
14	Ben Beake	Extreme nanomechanics: overcoming the challenges in vacuum nanoindentation to 1000 °C	nanomechanics, high temperature tribology, vacuum nanoindentation	German Fox-Rabinovich, McMaster University, Canada
15	Daniel W. Gebretsadik	Friction and wear characteristics of different Pb-free bearing materials in mixed and boundary lubrication regimes	lead-free, bearing materials, friction and wear	Luleå University of Technology

16	C.K. Christiansen	Cavitation analysis of a journal bearing - Finite Element modelling and experimental studies	cavitation, journal bearing, finite element, filling ratio, test rig	DTU, Mech Eng
17	Shravan Janakiraman	Rolling Contact Fatigue Of Hydrogen Infused Bearing Surfaces Under An Applied Hoop Stress And EHL Conditions	electrohydrodynamic lubrication, rolling contact fatigue, hoop stress, hydrogen infused surfaces	DTU, Mech Eng
18	Nils Beckmann	Atomistic origins of tribologically induced metallic surface folding	tribology, folding, nanocrystalline, machining, molecular dynamics, plastic flow	Fraunhofer Institute for Mechanics of Materials IWM
19	Thomas Lohner	On the Running-In Behaviour of Lubricated Line Contacts	running-in, mixed-lubrication, asperity contact, tribofilm formation	FZG Technische Universität München (gear research centre)
20	K. J. Siczek	Researches on the Friction between the Guide made of Phosphor Bronze and the Valve Stem made of Ti6Al4V with and without protective layer	friction, tribotester, TiAl alloy, phosphor bronze, protective layer	Lodz University of Technology, Poland. Dep. Of Vehicles and Fundamentals of Machine Design
21	Richard Waudby	Computational multiscale modelling concept and supporting experimental testing procedures for material wear behaviour under severe environments	modelling, material testing, impact, wear, severe environments	VTT technical Research Centre of Finland
22	Jyrki Korpela	Integrated surface chemistry and roughness characterization to study wetting and adhesion behaviour	surface roughness, wetting, contact angle, topography, surface chemistry	Biolin Scientific, Finland
23	Kati Valtonen, Ville Oksanen	Rolling-sliding wear of nodular cast iron rolls against wire ropes	nodular cast iron, wear mechanism, rolling-sliding, wire rope	Tampere Wear Center, Tampe Uni, Finland
24	Shravan Janakiraman	Comparison of Four Numerical Methods of EHL Modelling	elastohydrodynamic lubrication, multigrid method, finite element method, finite difference method	DTU, Mech Eng
25	J. Jerina	The effect of sliding distance and temperature on the initiation and formation of the aluminium alloy transfer to the uncoated and coated tool steel	elevated temperatures, friction, galling, aluminium alloy, coatings	University of Ljubljana, Slovenia, Lab for tribology and interface nanotechnology
26	M. Polajnar	EHL for lubricated contacts of DLC – role of interfacial and contact properties	DLC, EHD lubrication, solid-liquid interface	University of Ljubljana, Slovenia,
27	Ermanno Ceron	New tribo-systems for sheet metal forming of advanced high strength steels and stainless steels	tribo-system, galling	Grundfos A/S, DTU
28	Mikael Fallqvist	Abrasive wear of CVD $\alpha$ -Al <sub>2</sub> O <sub>3</sub> and Ti(C,N) coatings at room and elevated temperature	abrasive wear, CVD coating, elevated temperature, Al <sub>2</sub> O <sub>3</sub> , coatings texture	Seco Tools AB, Sweden
29	Montserrat Vilaseca	Friction behaviour of phosphate-free lubricants for steel wire drawing	lubrication, friction, steel wire, drawing	Technical Dept. SEBIR S.A. c/Comunicacions, Spain
30	Andreas Pauschitz	Nanotribological simulations of multi-grit polishing and grinding	molecular dynamics simulations, abrasion, atomistic wear	AC2T, Austria
31	Olga Konovalova	Tribological Analysis of the Nano-modified Industrial Polymer	polymer, nanoparticles, ultramid, cloisite, dry friction, oilless contact	Czech Technical University, Mec. Enng.
32	J. Ramos	Wear and Mechanical properties of nodular iron modified with copper	copper, mechanical properties, nodular iron, perlite structure wear	Universidad Autónoma de Occidente, Colombia
33	Yasuyoshi Saito	Development of new tapping tool covered with nickel/abrasive particles composite film	chip, snarling, cubic boron nitride, electrodeposition, friction, tap	Tohoku University, Japan
34	Kei Shibata	The role of frictional work in tribological behaviour of polyamide 66 composites containing hard particles	resin composite, particulate filler, frictional work, sliding wear	Tohoku University, Japan

35	Masa Zalaznik	Tribological behvour of peek/MoS2 composites: influence of MoS2 particles concentration and processing temperature	polymer composites, friction, wear, processing temperature, PEEK, MoS <sub>2</sub>	University of Ljublana, Slovenia, Mech. Eng.
36	Sünje Marsch	Film thickness measurements in a running hydrostatis swash plate type unit using ultrasound	ultrasound, hydrostatic swash plate unit, oil film thickness, cylinder block, valve plate	Danfoss Power Solutions Gmbh
37	Takahiro Yamazaki	Effect of the contact angle on the impact-sliding wear of nitrided stainless steel at 400 °C.	impact-sliding wear, contact angle, nirtriding, stainless steel	Fundamental Research Engineering Department, IHI Corporation, Japan
38	Markus Blust	Validation of a New Tribological Test Bench for Lightweight Hydraulic Components	hydraulic components, tribology of materials, system tribology	Karlsruhe Institute of Technology, Inst. Of Product Engineering
39	Marcello Conte	Test rig for drag force measurements	drag force, tribometer, turbulent flow, hull roughness	IK4-Tekniker, Spain
40	Hector Torres	Comprehensive study of wear phenomena during hot rolling of steel	high temperature, sliding, abrasion, tribology	AC2T Research Gmbh, Austria
41	Pawel Pawlus	The effect of oil pockets array on tribological behav iour of sliding elements	textured surfaces, pin-on-disc, friction force	Rzeszow University of Technology, Dept. Of Manufacturing Technology and Production Engineering
42	Markus Varga	Introduction of a novel AC2T tribometer especially designed for harsh environment scratch-, adhesion- and hardness investigation up to 1000°C	high tempertaure, hardness abrasion, adhesion, tribology	AC2T Research Gmbh, Austria
43	Fumihiro Itoigawa	Observation of Elastic/Plastic Response of Adsorbed Mono-Layer to Friction by Lateral Force Microscopy	mono-layer, boundary film lubrication, friction, eleastic/plastic response, LFM	Nagoya Insitute of Technology
45	Frederik Wolf	Characterization of start-stop motions - a novel approach	tribology of materials, friction, lubrication, tribological testing	Anton Paar Germany Gmbh, Germany
47	Jinxia Li	Grease free surface flow on a rotating plate	grease flow, axial seal, rheology	Division of Machine Elements, LTU
48	Robin Elo	Formation and degration of protective tribofilms on diesel engine valve surfaces	combustion valve, tribofilm formation and degradation, experimental	The Ånström Tribomaterials group, Uppsala Unversity
49	Janne Juoksukangas	Applying the digital image correlation method to fretting contact	fretting, complete contact, slip, digital image correlation, DIC	Tampere University of Technology, eng. Design
50	Dominik Paulkowski	Friction and wear resistance of plasmapolymeric coatings applied on elastomers	plasmapolymeric coating, elastomer, rubber, friction reduction, wear resistance, energy saving CO <sub>2</sub> saving	Fraunhofer-Institut für Fertigungstechnik und Angewandte Materialforschung
52	E. Zadorozhnaya	The ressource estimation of heavy-loaded friction units of intenal combustions engine	ressource, heavy-loaded friction units, hydro-mechanical characteristics, bearing	South Ural State University, Russia, Lab of Tribology
53	G.E. Morales Espejel/Victor Brizmer	Rougness Evalotuion in Mixed Lubrication condtions du to Mild Wear	surface roughness, mild wear, running-in, mixed lubrication	SKF Engineering and Research Centre, Nieuwegein, The Netherlands
54	K. Barman	Fretting wear behaviour of MoS2 dry film lubricant	Fretting, Friction, Tribology, Solid lubricant Coating, Dry sliding wear	University of Nottingham, Mechanical, Materials & Design, UK
56	Vuokko Heino	Sliding Wear of Quarts and Granite surfaces	granite, quartz, ball-on-disc, sliding wear	Tampere University of Technology, Wear Center
57	Yuji Ohue	Adhesive strength of coated film by aerosol deposition using reactive alumina submicron	aerosol deposition, alumina, coating, adhesive strength, submicron powder	Kagawa University, Japan
60	Jimmy Penagos	Microstructure refinement effect on two-body abrasion resistance of white cast irons	abrasive wear, microstructure refinement, white cast iron, second phase material	Dept. Of Mech. Eng., University of Sao Paulo, Sao Paulo, Brazil
61	Ulf Olofsson	Influence of snow on train block braking performance - a pin on disc simulation in a climate chamber	friction, snow, block brakes	Dept. Of Machine Design, KTH Sweden

62	Amin H. Zavieh	Effect of normal load on multi-degradation mechanisms of super duplex stainless steel exposed to tribocorrosive-fatigue environment	multi-degradation, tribocorrosion, super duplex stainless steel, fatigue	NTNU, Faculty of engineering Science and Technology
63	J. Korzekwa	Tribological properties of friction pair Al <sub>2</sub> O <sub>3</sub> /IF-WS <sub>2</sub> composite layer with the TG15 plastic	oxide layer, composite layer, lubricants, wear, friction coefficient	Faculty of Computer and Materials Science, University of Silesia, Poland
64	Milad Mokhtari	On the existence of a friction-modified surface layer of BR/SSBR elastomers reinforced with different silica or carbon black contents	friction-modified surface layer, BR/S-SBR, AFM nanoindentation, mechanical properties, rubber friction	University of Twente, Fac. Of Eng. Gtech. The Netherlands
65	Z. Dimkovski/sabina Reggiani	Evaluation of durability of SOG layers on Steel Surfaces by Wear and Scratch Tests	mirror finish, tribometer, ball-on-disk, scratch-test, SOG layers	Halmstad University, Sweden
66	Fumihiko Yokoyama	Solution for deposition on bearing pads by insoluble particulates in turbine oils	deposit, lubricant, turbine oil, bearing	Machine elements dept., IHI Corporation Japan
67	L. Rapoport	The failure and Damage Mechanisms under Friction of Copper in the EHL and Mixed EHL Regions	friction, copper, Stribeck curve, failure, damage	Holon Institute of Technology, Israel
68	L. Rapoport	The effect of stick-slips on the dislocation structure of LiF single crystals	friction, stick-slip, dislocations, structure, single crystal	Holon Institute of Technology, Israel
69	Adrian Cîrciumaru	Tribological behaviour of epoxy and epoxy composites	epoxy, starch, ultrasounds, wear	Dunarea de Jos University, Romania
70	Adrian Cîrciumaru	Tribological analysis of fabric reinforced epoxy composites	epoxy, fabric, friction, wear	Dunarea de Jos University, Romania
72	Harald Nyberg	Performance of WS <sub>2</sub> -based coatings under lubricated sliding	TMD, WS <sub>2</sub> , component coatings, low friction, lubrication	Tribomaterials Group, Uppsala University, Sweden
73	Jill Sundberg	On the low friction of W-S-N coatings	WS <sub>2</sub> , coatings, reactive sputtering, unlubricated sliding, tribofilm	Dept. Of Chemistry, Ångström Lab., Uppsala University
74	Jannica Heinrichs/Mikael Olsson	Influence of hardness and microstructure on the mechanisms of deformation and wear of cemented carbides for rock drilling	cemented carbides, microstructure, scratching, deformation, wear, rock drilling	Ångström Tribomaterials Group, Uppsala University
75	Yoshinori Sawae	Low Wear of Carbon Fiter filled PTFE in Gaseous Hydrogen	carbon fiber filled PTFE, hydrogen, seal, friction, wear	Kyushu University, Japan, Dept. Of Mech. Eng.
76	Dr. Deepak H. Veeregowda	Effect of temperature control in high temperature tribology	metal forming, high temperature, inconel, heating pattern, coefficient of friction, wear	Ducom Instruments Pvt. Ltd, Bangalore, India
77	Nowshir Fatima	Adsorption of ATF additives on wet clutch friction interfaces under various lubricants conditions	wet clutch, water contamination, lubricant, additive, spectroscopic analysis	Division of Machine Elements, LTU
78	L. v Fieandt	Deveopment of diffusion couple method to study chemical interactions between cemented carbide and difficult to machine elements	cemented carbide, difficult alloys, diffusion couple, chemical interactions	Dept. Of Chemistry, Ångström Lab., Uppsala University
80	Lev Evelson	Combined Consideration of qualitative and quantitative factor in computer modelling of tribological systems	tribological system, computer modelling, qualitative and quantitative factor, expert system, information model	Bryansk State Academy of Engineering and Technologies, IT Department, russia
81	Lorena Deleanu	Wear resistance of polymeric materials based on PBT	polybutylene terephthalate (PBT), aramid fiberse, wear, glass beads, PTFE	Dunarea de Jos University, Romania
82	Lorena Deleanu	Flammability of vegetal oils on hot surface	vegetal oil, rapeseed oil, olive oil, corn oil, soybean oil, flammability on hot surface	Dunarea de Jos University, Romania
83	Romeo Glovnea, Keith Philpot	Dynamic and tribological analysis of a toroidal CVT	CVT, EHD, traction, modelling, dynamix	University of Sussex, dept. Of eng. And Design

84	Magnus Heldin	Initiation of wood defibrillation, tribology at the fiber level	$\mu$ CT, defibrillation, wood-fiber deformation, wood scratching, FEM modelling, wood strain	Ångström Tribomaterials Group, Uppsala University
86	Alaleh Safari	Studing Water Behaviour under Reciprocating Situation in Micro-channel	reciprocating motion, joint lubricant, micro-channel	Division of Machine Elements, LTU
87	Matthias Gräfensteiner	Integrated characterisation and functional testing of friction-locking surfaces	static coefficient of friction, frictional engaged joints, friction enhancing furace modification	Chemnitz University of Technology, Germany
88	Jorge Gonzalez Salazar	Feedback-controlled Ludbrication for Reducing the Lateral vibration of Flexible Rotors supported by tilting-Pad Journal Bearings	tilting-pad journal bearing, mechatronic machine element, feedback-controlled lubrication	DTU, Denmark
89	Janez Kogovsek	Tribofilms of MoS <sub>2</sub> , nanotubes on steel and DLC-coated surfaces	MoS <sub>2</sub> , nanotubes, tribofilm, DLC, steel, XPS	University of Ljubljana, Slovenia, Lab. For Tribology
90	B.G. Rosén	Virtual evaluation of m anufactured surfaces - to use 3d data to predict performance	gear manufacturing, 3d topography, virtual evaluation	Halmstad University, Sweden
91	Pavel Kovalenko	Modern methods for estimation of Triboresistance during Nanoscaning of Fiberglass Surfaces	triboresistance, surface nanoscanning, scanning probe microscopy, action parameters, internal friction	Saint-Petersburg National Reserach University of Information Technologies, Mechanics and Optices, russia
92	Shiuh-Hwa Shyu	A Non-Newtonian THD Lubrication Model for Journal Bearings	non-Newtonian fluid, turbulent flow, thermohydrodynamic, journal bearing, Legendre collocation, Navier-Stokes equations	Graduate School of Opto-Mechatronics and Materials, WuFeng University, Taiwan
94	Satoru Maegawa	Surface plasmon resonance measurements of adsorbed films under fluid lubrication conditions	surface plasmon resonance, in-situ observations, adsorbed film, and fluid lubrication	Nagoya Insitute of Technology, Japan
95	Nico Buchhorn/kukla	Design of an axially concave pad profile for a large turbine tilting-pad bearing	thermal deformation, compensation, tilting-pad, profiling	Ruhr-University Bochum, Germany
96	Helena Ronkainen	The effects of aging and elevated temperatures on DLC films	DLC, a-C:H, tribo-performance, aging, elevated temperature, modelling	VTT technical Research Centre of Finland
97	Helena Ronkainen	The effect of surface roughness and carbon coatings on the friction performance in rolling contact	rolling contact, surface roughness, carbon coatings, friction	VTT technical Research Centre of Finland
98	Shinnosuke Yano	Lubricating properties of MR fluid	MR flids, friction, wear, particle, in-situ observation	Graduate School, Tokyo University of Science
99	Hikaru Okubo	Friction property of DLC films in low-pressured hydrogen condition	tribology, diamond-like carbon, hydrogen, vacuum	Graduate School, Tokyo University of Science
100	Martin Duboc	Influence of pin contact geometry and friction material behaviour on disc brake squeal noise	braking, friction, squeal, vibrations, analytical model, nonliniar material behaviour	Univ Lille Nord de France
101	Alexander Hornung	Influence of switching speed of connectors in conditions of engaging and separating with electrical load	hot-plugging, tribology, arcing, electrical contacts	Technische Universität, Ilmenau, electrical apparatus and switchgear group
102	Martin Andersson	A study on surface influence on gear efficiency and lubricant temperature	gears, efficiency, temperature	Machine Design, KTH
103	Manoliu Victor	Tribological study of some multilayered ceramic structures in the aeronatuical indusstry	turbo engines, adhesive wear, quick thermal shock, TBC	National Institute of Aersopatial Research "Elie Carafoli", Romania

104	Rok Simic	Neutron reflectometry of boundary films and DLC coatings	DLC, boundary films, adsorption, neutron reflectometry, alcohols, fatty acids	University of Ljubljana, Faculty of Mech. Eng., Slovenia
105	Petra Olander	Testing scuffing resistance of materials for marine 2-stroke engines - Difficulties with lab scale testing of a complex phenomenon	scuffing resistance, cylinder, piston ring, materials, marine two-stroke engine	Ångström Tribomaterials Group, Uppsala University
106	Mario J. Sosa	In Situ Surface characterization of running-in of involute gears	gear, running-in, surface topography	Machine Design, KTH
108	Prof. Ahad Janahmadov	Application of fractal analysis to diagnose contact interaction of frictional objects	friction, roughness, bearing surface curvature, fractal analysis, diagnostics, contact interaction mode	Azerbaijan Engineering Academy
109	Dirk Drees	Improvements to Tribological Testing for Industry, Practical solutions	wear testing, high precision, repeatability, multistation, TLA	Falex Tribology, Belgium
111	Tetsuzo Hatazawa	Study of Torque and Thrust of needle roller bearings	needle roller, torque, thrust	Faculty of engineering, Utsunomiya University, Japan
115	Nobuyoshi Ohno	EHL Traction Analysis of Perfluoropolyether fluids based on Bulk Modulus	PFPE fluid, rheology, bulk modulus, traction, EHL	Department of Mech. Eng., Saga University, Japan
116	Jacob Sukumaran	An Unconventional approach in polymer wear: Online vision system	online vision system, polymer wear, quantitative micrography	Ghent University, Belgium, Dept. Of Mech. Construction and Production
117	Petr Mutafov	Friction of W-DLC(H) - testing in laboratory and motorcycle engine	tribology, DLC coating, motorcycle engine, Raman spectroscopy, ToF-SIMS	Czech Technical University, Elec. Eng.
118	Kazumi Sakai	Influence of Physical States of Amide type Ge-Lubricants on Tribological and Rheological Properties	tribology, rheology, gel-lubricant, low friction, lubricants	JX Nippon Oil & Energy Corporation
119	Ion Marius Sivebæk	The viscosity of Dimethyl Ether (DME) determined by Quartz Crystal Micro-balance (QCM)	dimethyl ether, viscosity, high-pressure, Quartz Crystal Micro-balance	Technical University of Denmark, Mech. Eng.
120	Ion Marius Sivebæk	The lubricity of diethyl ether (DEE)	diethyl ether (DEE), dimethyl ether (DME), lubricity, additives	Technical University of Denmark, Mech. Eng.
121	Stanislaw Strzelecki	Pressurized oil supply in cylindrical 2-grooves journal bearing	cylindrical 2-grooves journal bearing, pressurized oil supply	Katowice Coal Holding Company, Poland
122	Justyna Zorn	The impact of the standard turbine oil and the biodegradable synthetic oil on properties of the polymers used as sliding layers in the hydrodynamic thrust bearings	polymers, standard turbine oil, biodegradable synthetic oil	Gdansk University of Technology, Mech. Eng.
124	Anne-Lise Cristol	Brake in brake lining: elements of understanding for its replacement	brake lining, brass, thermal and mechanical characterization, friction tests, 3rd body behaviour	University Lille Nord de France
125	Esa Vuorinen	Erosive and abrasive wear resistance of carbide free bainitic steels	Carbide free bainite, erosion, abrasion, wear resistance	Luleå University of Technology
126	Giselle Ramirez	Enhanced contact fatigue behaviour of coated tool steel by using W-C:H thin film	contact fatigue, spherical indentation, W-C:H coating	Fundacio CTM Centre Technologie, Spain
127	Peder Klit	Experimental Investigation of Fatigue Lifetime for Bearing Materials in Large Two-stroke Marine Diesel Engines	Babbitt, fatigue, combustion engine, experiment	DTU, Mech. Eng.
128	Peder Klit	Experimental Investigation of the Tribological Behaviour of Cylinder Liner - Piston Ring Contact with High Pressure Difference Across Ring Pak	piston ring, friction, lubrication, experiment	DTU, Mech. Eng.
129	Stanislaw Strzelecki	Application of multilobe journal bearings in grinding machines spindle systems	hydrodynamic lubrication, multilobe journal bearing	Research Development Centre of Textile Machinery Polamatex-Cenaro, Poland
130	Jonna Holmgren	Friction and wear studies of some PEEK materials	PEEK, friction, wear, FEM	Uppsala University, Dept. Of Engineering Sciences

131	Jaume Pujante	Laboratory Investigations about the mechanisms of aluminium transfer on hot forming tools	wear, metal forming, aluminium, high temperature, adhesion	Fundació CTM Centre Tecnològic, Spain
132	Jaume Pujante	Study of wear and friction in press hardening of boron steel using a laboratory simulator facility	wear, press hardening, high temperature, galling, boron steel	Fundacio CTM Centre Technologie, Spain
133	Xinmin Li	A pin on disc study of the tribology characteristics of sintered versus standard gear materials	gear material, PM, wear, friction, running-in	KTH, Dept. Of Machine Design, Sweden
134	Lukasz Wojciechowski	Proposal of invariant precursor for boundary lubricated scuffing	boundary lubrication, scuffing, topological approach	Laboratoire de Tribologie et Dynamique des Systemes LTDS-C.N.R.S., Ecole Centrale de Lyon, France
135	Kenneth Duvefelt	Model for Contact Area between finger and Sinusoidal Plane to Evaluate Adhesion and Deformation component of Friction	finger friction, model, real contact area, adhesion, deformation	KTH, Dept. Of Machine Design, Sweden
136	A. Anand	Tribological evaluation and selection of bearing materials using graph theory and matrix method	Digraph, Tribology, Design, Sustainability	Shri Mata Vaishno Devi University, Katra, J&K India
137	Filipe Fernanses	The effect of V additions on the tribological behaviour of sputtered TiSi(V)N coatings at room temperature	TiSi(V)N coatings, Tribology, Wear, Magnéli oxides	SEG-CEMUC - Department of Mechanical Engineering, University of Coimbra, Portugal
138	A Radtke	TiO <sub>2</sub> and TiO <sub>2</sub> /AG nanotubes as coatings for modern dental plants	dental implants, titania nanotubes, silver nanoclusters, biological activity, abrasion, friction	Faculty of Chemistry, Niculus Copernicus University, Poland
139	Christoph Schiffers	Integration of HiPIMS equipment into an industrial coating production for cutting tools	HiPIMS, sputtering, cuttings tools	Cemecon AG, Germany
140	Io Mizushima	Investigation on friction properties of nickel ceramic electrodeposits	cylinder wall coating, friction, wear, lubricant, oil affinity	Technical University of Denmark, Mech. Eng.
141	W. Karaszewski	Crack propagation in silicon nitride bearing elements	crack propagation, silicon nitride, rolling bearing, numerical analysis	Technical University of Gdansk, Mech. Eng.
142	Pavel Bilek	Tribological and mechanical properties of Cr <sub>2</sub> N-11Ag - coatings deposited on Cr-V ledeburitic steel	Vanadis t, PVD, chromium nitride with silver, pin-on-disk, nanohardness, scratch test	Institute of Materials Science, Slovak University of Technology in Bratislava
143	Vladimir Pejakovic	Three-body behaviour of selected commercially available polymer materials	abrasion, G65, polymers, particle embedment	Ac2T Research GmbH, Austria
144	Sascha Lourcing	Characterisation of Nanocomposite Ti-C-N coatings Deposited by Industrial Scale DC Magnetron Sputtering for Tribological Applications	Nanocomposite; Microstructure; Mechanical Properties; Pin-on-disc; Amorphous Carbon	Danish Technological Institute, Denmark
145	F. Bauer	Scratch & Failure Detection Method for Shaft and Rod Surfaces	Surface Topography, Failure Analysis, Scratches, Shaft & Rod, Seal	University of Stuttgart, Institute of Machine Components (IMA)
146	Sergei Glavatskih	Novel energy efficient biodegradable turbine oils	Turbine fluids, Bio Lubricants, Varnish, Sludge, Energy Efficiency, power loss	Statoil and KTH