Final Program

Technical Program Overview

	Thursday, November 08, 2007		
8.30-9.30	Late registration, World Trade Center Foyer		
9.30-10.00	Welcome Ceremony, Opening Addresses		
	The New York Auditorium		
10.00-10.15	Coffee break		
10.15–12.15	Plenary Session, Invited Lectures		
	The New York Auditorium		
12.15–12.30	Conference Partner Presentation		
12.30-13.15	Posters & Exhibition		
13.15–14.30	Lunch		
	NEW YORK Auditorium SEOUL Room		
14.30–16.10	Session 1.1	Session 1.2	
	Contact mechanics – I	Friction and wear of surfaces – I	
16.10–16.30	Exhibition & Coffee break		
16.30–18.30	Session 2.1	Session 2.2	
	Fundamentals of Lubrication – I	Lubricants	
19:00	Conference Dinner		

Friday, November 09, 2007		
	NEW YORK Auditorium	SEOUL Room
08.30-10.10	Session 3.1	Session 3.2
	Tribology of machine elements	Emerging technologies and industrial Tribology
10.10-10.30	Exhibition & Coffee break	
10.30–12.10	Session 4.1	Session 4.2
	Fundamentals of Lubrication – II	Tribology of materials
12.10-13.10	Posters & Exhibition	
13.10–14.30	Lunch	
14.30–16.10	Session 5.1	Session 5.2
	Contact mechanics – II	Friction and wear of surfaces – II
16.10–16.30	Exhibition & Coffee break	
16.30–18.30	Session 6.1	Session 6.2
	Micro and nanotribology	Biotribology
18.30	Closing Session	

Thursday, November 08, 2007		
08.30-9.30	Late registration, World Trade Center Foyer	
9.30-10.00	Welcome Ceremony, Opening Addresses	The New York Auditorium
Prof.	dr. Emanuel Diaconescu	
Presid	lent of the Romanian Tribology Association	
Prof.	dr. Ecaterina Andronescu	
Recto	r of the University Politehnica of Bucharest	
Prof.	dr. Angheluta Vadineanu	
Vice-I	President of National University Research Counci	il
10.00-10.15	Coffee break	
10.15–12.15	Plenary Session, Invited Lectures	The New York Auditorium
Prof. Richard F. Salant, Georgia Institute of Technology ELASTOHYDRODYNAMIC MODEL OF RECIPROCATING HYDRAULIC SEALS Prof. Jean Frêne, University of Poitiers REGIMES OF LUBRICATION IN LUBRICATED CONTACS Prof. Emanuel Diaconescu, University of Suceava A PHYSICAL APPROACH TO THE WALL EFFECT IN ELASTOHYDRODYNAMIC LUBRICATION Prof. Francis E. Kennedy, Thayer School of Engineering, Dartmouth College TRIBOLOGICAL CHARACTERISTICS OF POLYETHYLENE BEARINGS OF KNEE PROSTHESES		
12.15–12.30		
Dr. Paolo BARIANI, CETR Tribo-Metrology from Macro-down to Nano-scale		
12.30–13.30	Posters & Exhibition	
13.30–14.30	Lunch	

Thursday, November 08, 2007			
14.30–16.10	Session 1		
Session 1.1 New York	Session 1.2 Seoul		
Contact mechanics – I	Friction and wear of surfaces – I		
Chairmen: R.F. Salant and E. Diaconescu	Chairmen: S. Andersson and D.N. Olaru		
 RO-013 An elastic layer compressed between two identical elastic paraboloids, by E. Diaconescu, M. Glovnea. RO-122 Leakage free lip seals: an experimental investigation, by T. Mollan, K. Tønder. RO-098 Numerical analysis of optimum front surface of a squared section punch, by S. Spînu, D. Gradinaru, M. Marchitan. RO-118 Stress intensity factors analysis on cracks in the Hertzian stresses field of teeth gears, by L. Tudose, C.O. Pop RO-066 Fatigue crack growth simulation in the Hertzian stresses field of teeth gears, by L. Tudose, C.O. Popa. 	RO-053 Simulation of plastic deformation and wear of a rough surface rubbing against a smooth wear resistant surface, by S. Andersson, U. Olofsson RO-074 Evaluation of real contact area of lubricated rough surface under normal contact loading, by S. Kucharski, G. Starzynski, A. Bartoszewicz RO-020 Rolling friction evaluation in a contact between a steel ring and a nonmetallic ball, by I. Musca RO-005 Experimental study on roughness parameters variation, during running in period, for a cylinder-plane friction couple, by F. Petrescu, A. Davidescu, M. Vlase RO-100 Strategy for identification of wear mode of engineering surfaces, by G. Meille,		
	T.G. Mathia (presented by <u>A. Szuder</u>)		
16.10–16.30 Exhibition & Coffee break			
16.30–18.30	Session 2		
Session 2.1 New York	Session 2.2 Seoul		
Fundamentals of Lubrication – I	Lubricants		
Chairmen: J. Frêne and T. Cicone	Chairmen: B. Bou-Saïd and N.N. Antonescu		
RO-103 A thermohydrodynamic analys of a three-wave journal bearing, by <u>N. Ene</u> , F. Dimofte	RO-097 Viscosity of amorphous molecular substances, by <u>E. Diaconescu</u> , V.F. Zegrean, O. M. Onciul		
RO-095 Seizure of a high-speed three-wave	<i>RO-087</i> On the variation of the concentration of		
journal bearing, by <u>D.M. Buzescu</u> ,	lubricating emulsions during and due to		
M.D. Pascovici	the lubricating processes, by		
RO-001 The influence of a groove type defect on	A.G. Pocola, D. Pop		
hydrodynamic performances of	RO-073 Lubricating greases for food processing		
Rayleigh step bearings, by <u>A. Predescu</u> ,	industry, by <u>O. Florea</u> , M. Luca,		
M.D. Pascovici, T. Cicone **RO-016* Analysis and experimental study about	M. Mocioi, C. Mateescu RO-061 Flammability test data in risk		
oil leakage from fluid bearing, by	assessment, by <u>L. Deleanu</u> , D. Buzoianu,		
N. Hishida, M. Hashimoto, T. Hirayama,	St. Craciunoiu, M. Rîpa, C. Spânu		
T. Matsuoka, H. Yabe	RO-091 Experiences in lubrication of non-		
RO-036 Behaviour of a hydrodynamic journal	natural gas fuelled stationary engines,		
bearing: torque measurement, during	by <u>F. Novotny-Farkas</u> , K. Baumann,		
start-up by <u>J. Bouyer</u> , M. Fillon	T. Leimeter		
RO-119 Influence of collar deformations on	RO-112 Industrial gear oils from renegerable		
hydrodynamic thrust bearing	feed stocks , by C. Tanasescu, <u>D. Petre</u> ,		
performance, by M. Wasilczuk,	L. Bogatu, N.N. Antonescu		
M. Wodtke			
19.00 Conference Dinner			

Conference Dinner

19.00

Friday, November	09.	2007
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08.30–10.10	session.	3
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Session 3.1 New York

Tribology of machine elements

Chairmen: V. Dulgheru and I. Musca

RO-012 Thermal study of a periodic contact under braking conditions by M. Siroux,
 A-L. Bulthé, Y. Desplanques, B. Desmet,
 G. Degallaix

RO-017 Some aspects about driving wheel/rail contact in steady state interaction, by T. Mazilu

RO-025 The reliability of the RLAC bore-hole pumps, by <u>A.C. Drumeanu</u>, N.N. Antonescu

RO-029 The effect of cathodic protection upon erosion-corrosion wear, by *R.G. Rîpeanu*, I. Tudor, F. Dinu, V. Grigore

RO-123 Power losses estimation in precessional gear, by I. Bostan, <u>V. Dulgheru</u>,I. Bodnariuc

10.10–10.30 Exhibition & Coffee break

Session 3.2

Emerging technologies and industrial Tribology

Seoul

Chairmen: R.Rukuiza and O. Florea

RO-033 Surface modification of carbon steel by deposition of fluor-oligomeric films, by V.Vasauskas, J. Padgurskas, <u>R. Rukuiza</u>

RO-076 Modeling the process of hard coatings
 by high-speed flame spraying (HVOF),
 by <u>D. Petrescu</u>, N.N. Antonescu,
 M. Neacsu

RO-071 The tool wear model through micro strain and micro cutting, by <u>C. Tache</u>, A. Tache

RO-070 Thermal aspects regarding the drilling process, by A. Tache, <u>C. Tache</u>

RO-105 Abrasion in finishing processes, by <u>A. Szuder</u>, I.D. Marinescu, T.G. Mathia, G. Meille

10.30–12.10 **Session 4**

Session 4.1 New York

Fundamentals of Lubrication – II Chairmen: M. Fillon and F. Dimofte

RO-104 New test facility for fluid film journal bearings, by F. Dimofte, N.M. Ene

RO-078 Experimental determinations of a water meniscus between a steel ball and a glace surface, by C. Stamate, D.N. Olaru

RO-068 A finite-element local mesh refinement model for treating mixed-lubrication in conrod bearings, by <u>A. Fatu</u>, I. Riche, D. Bonneau

RO-021 Test rig for pressure measurements in an aerostatic bearing, by *I. Musca*

RO-034 NOT PRESENTED Elastohydrodynamic lubrication analysis of partial arc bearings using CFD & FSI, by P. Bhat, S. Shenoy, B.R. Pai Session 4.2 Seoul

Tribology of materials

Chairmen: M. Siroux and M. Rîpa

RO-027 Influence of bearing materials on plain bearings performance in low viscosity base oil lubrication, by <u>T. Katafuchi</u>, M. Kasai, T. Miyaji

RO-051 Wear behaviour of the Al 7175 alloy under different bulk stress states, by M. Buciumeanu, A.S. Miranda, F.S. Silva

RO-109 Research regarding of composite materials under the influence of abrasive wear, by <u>C. Florea</u>, A. Florea, M. Chivu

RO-058 The influence of the applied load on the friction coefficient of the sintered iron base bearings, by <u>C. Tei sanu</u>,
S. Gheorghe, A. Tudor, I. Ciupitu

RO-011 NOT PRESENTED Wear behaviour of alumina and AISI 52100 steel against molybdenium boride coated AISI D2 steel, by U. Sen, H. Unal, A. Mimaroglu, S. Sen.

12.10–13.30 Posters & Exhibition

13.30–14.30 Lunch

14.30–16.10	Session 5		
Session 5.1 New York Contact mechanics – II Chairmen: G. Starzynski and P.L. Seiciu RO-094 Residual stresses effect on fatigue life of rolling contacts, by S. Cretu, M. Benchea RO-042 Experimental investigations of contact radius between a rubber ball and a flat, by F. Ciutac, E. Diaconescu, D. Pintilie RO-010 Influence of the sliding speed on the elastohydrodynamic regime, by P.L. Seiciu RO-008 Contact model for a rough surface, by S. Cananau RO-063 Upon fretting behaviour in a hertzian point contact, by L. Irimescu, F. Ciornei	Friction and wear of surfaces – II Chairmen: L. Deleanu RO-084 Friction in linear rolling systems for microactuators, by D.N. Olaru, Gh. Prisacaru, P. Lorenz. RO-018 NOT PRESENTED Friction coefficient determination in several lubrication conditions, by I. Petre, C. Tache, D. Dumitru RO-102 High-speed hybrid angular contact ball bearings lubricated by Kerosene mist, by V. Paleu RO-082 Optimised structures for thin and thick plastic deformation, by G.A. Mihalcea, O. Grigore RO-007 Investigation of layers formed through selective transfer with atomic force		
microscopy, by F. Ilie 16.10–16.30 Exhibition & Coffee break 16.30–18.30 Session 6 Session 6.1 New York Session 6.2 Seoul			
Micro and nanotribology Chairmen: M. Wasilczuk and M.D. Pascovici	Biotribology Chairmen: F.E. Kennedy and A. Tudor		
RO-015 Study on reduction of nano-fluctuation of aerostatic bearing with surface restriction, by <u>T. Kitagawa</u> , T. Hirayama, T. Matsuoka, R. Mizuno, M. Kadotani, K. Sasaki, H. Yabe	RO-014 Modeling a human hip joint lubrication subject to walking cycle, by A. Meziane, B. Bou-Saïd, J. Tichy RO-028 Computational analysis of type I endoleaks in a stented abdominal aneurysm, by A. Amblard, H.WLe		
RO-019 An experimental study of surface textured thrust bearings in hydro static lubrication, by <u>J. Gibbs</u> , L. S. Stephens RO-030 Hydrodynamic effects of texture geometries on journal bearing surfaces,	Berre, <u>B. Bou-Saïd</u> , M. Brunet RO-006 The effect of Wiberg angle about the contact pressure distribution in the natural and artficial joint, by <u>A. Tudor</u> ,		
by N. Tala-ighil, P. Maspeyrot, <u>M. Fillon</u> , A. Bounif RO-108 Theoretical and experimental analysis of a partially textured thrust bearing with	C. Pârsu, S. Opris RO-069 Numerical and experimental investigations upon articular cartilage mechanical hysteresis, by Gh. Frunza, F. Ciornei		
square dimples, by <u>V.G. Marian</u> , M. Kilian, W. Scholz RO-114 The equivalent Rayleigh step bearing of a partially textured slider, by M.D. Pascovici, <u>T. Cicone</u> , M. Fillon, M.B. Dobrica	RO-080 Characterizing the wear particles of intervertebral disc prosthesis and their biological response, by M. Cretan (Stamate), M. Gafitanu, C. Stamate RO-089 NOT PRESENTED Mathematical		

model and artificial joint wear control,

by L. Capitanu, J. Onisoru, A. Iarovici, C.

Tiganesteanu, M. Dima

I. Mustata

RO-116 Low friction properties of nano-

<u>C.P. Lungu</u>, A. Tudor,

structured C-Ni films prepared by

thermionic vacuum arc method, by

A.M. Lungu, C.C. Surdu-Bob, P. Chiru, O. Pompilian, C. Porosnicu, T. Laurian,

R. Brescia,

Methods for obtaining the frequency dependent Poisson's ratio for polymers – simulations, by G. Stoica, A. Jordan, N. Crisan RO-003 Experimental methods for obtaining the frequency dependent Poisson's ratio for polymers-improvements, by G. Stoica, A. Jordan RO-004 Experimental researches on tribological behaviour of some Timken couples during running-in period, by F. Petrescu, A. Davidescu, M. Vlase RO-009 G. Andrei, D. Walton, K. Deam RO-009 G. Andrei, D. Walton, K. Deam RO-023 Mymetic fubricants utilization – state of art, by A.C. Drumeanu RO-024 Synthetic lubricants utilization – state of art, by A.C. Drumeanu RO-035 Experimental study of increased functional resources in the D-110 engine crankshaft – grant to the content of the content		Posters	Beijing & Viena	
RO-003 RO-004 Experimental methods for obtaining the frequency dependent Poisson's ratio for polymers- improvements, by G. Stoica, A. Jordan RO-004 Experimental researches on tribological behaviour of some Timken couples during running-in period, by F. Petrescu, A. Davidescu, M. Vlase RO-009 Analysis of gear quality criteria and performance of curved facewidth spur gears, by L. Andrei, G. Andrei, D. Walton, K. Dearn RO-023 M. Dima RO-024 Synthetic lubricants utilization – state of art, by A.C. Drumeana Experimental study of increased functional resources in the D-110 engine crankshaft— connecting rod assembly by reworking of parts exposed to wear, by M. Bayer, M. Clarica, G. Ipate Tribomodelling of the die – tubular material contact with applications for drilling tongs, by I. Nae, N.N. Antonescu, M.G. Petrescu RO-038 RO-038 RO-038 RO-038 RO-039 NOT PRESENTED Repeatability study at the recording of friction damping of the oscillations of a pendulum on gas-static bearings, by S. Bobancu, R. Cozma, V. Cioc RO-040 NOT PRESENTED High accuracy tribometer class based on the inclined plane principle, by S. Bobancu, R. Cozma, V. Cioc RO-040 NOT PRESENTED Between basics, Synchronous betts failure modes, by S.L. Butnariu RO-045 RO-046 Theoretical researches regarding mechanical face seal hydrodynamic lubrication, by N. Popa, B. Nicolescu, C. Onescu Research regarding the wear behaviour of carbon steel obtained through iron powder sintering and carburizing, by C. Ghermec, O. Ghermec RO-059 Not PRESENTED The behavior of the piston-engine tribosystems, by Gh. Postaru, A. Postaru, V. Ceban Nitrogen influence on indentation fracture toug hness of stainless steel coatings, by N.G. Kostova, A.A. Spojakina, E. Dutkova, P. Balaz, M. Kandeva, E. Assenova RO-067 Nitrogen influence on indentation fracture toug hness of stainless steel coatings, by N.G. Kostova, A.A. Spojakina, E. Dutkova, P. Balaz, M. Kandeva, E. Assenova Postaru, V. Ceban Nitrogen influence on indentation fracture toug hness of stainless steel coatings, by N.G. Host	RO-002		lymers – simulations, by	
RO-009 RO	RO-003	Experimental methods for obtaining the frequency dependent Poisson	n's ratio for polymers -	
Analysis of gear quality criteria and performance of curved facewidth spur gears, by L. Andrei, R. Oearn RO-023 Dynamics of hip artificial joints wear, by L. Capitanu, A. Iarovici, J. Onisoru, C. Tiganesteanu, M. Dima RO-034 Synthetic lubricants utilization – state of art, by A.C. Drumeanu Experimental study of increased functional resources in the D-110 engine crankshaft – connecting rod assembly by reworking of parts exposed to wear by M. Bayer, M.Olarica, G. Ipate RO-035 Tribomodelling of the die – tubular material contact with applications for drilling tongs, by I. Nae, N.N. Antonescu, M.G. Petrescu NOT PRESENTED Repeatability study at the recording of friction damping of the oscillations of a pendulum on gas-static bearings, by S. Bobancu, R. Cozma, V. Cioc NOT PRESENTED Experimental research concerning hard shocks behaviour to the HD sobancu, R. Cozma, V. Cioc NOT PRESENTED Experimental research concerning hard shocks behaviour to the HD sobancu, R. Cozma, V. Cioc NOT PRESENTED Experimental research concerning hard shocks behaviour to the HD sobancu, R. Cozma, V. Cioc NOT PRESENTED Belts wear basics. Synchronous belts failure modes, by S-L. Butnariu RO-045 Not PRESENTED Belts wear basics. Synchronous belts failure modes, by S-L. Butnariu RO-046 Nicolescu, C. Onescu Ro-050 Research regarding the wear behaviour of carbon steel obtained through iron powder sintering and carburizing, by C. Chermec, O. Ghermec RO-050 The influence of the sintering atmospheres on the wear behaviour of the copper based alloys, by S. Gheorghe, C. Teisanu, A. Merstallinger, L. Ciupitu RO-064 Not PRESENTED The behavior of the piston-cylinder tribosystems, by Gh. Postaru, A. Postaru, V. Ceban Nitrogen influence on indentation fracture toug hness of stainless steel coatings, by M. G. Kostova, A. A. Spojakina, E. Dutkova, P. Balaz, M. Kandeva, E. Assenova RO-067 Nitrogen influence on indentation fracture toug hness of stainless steel coatings, by M. Postaru, V. Ceban Nitrogen influence of combined surface waviness on	RO-004	Experimental researches on tribological behaviour of some Timken co	ouples during running-in	
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