



TURKEYTRIB'15

1st INTERNATIONAL CONFERENCE ON TRIBOLOGY

7 – 9 October 2015

Yıldız Technical University

İSTANBUL - TURKEY

**TURKEYTRIB'15 is organized by YILDIZ TECHNICAL UNIVERSITY,
Mechanical Faculty, Department of Mechanical Engineering,
Automotive Subdivision, İstanbul and Triboloji Derneği - TURKEY**

PROGRAMME

October 07 - 09, 2015, İstanbul, TURKEY

HOSTS:



Supported by

Yıldız Technical University
Istanbul-TURKEY

Turkish Tribology Association
Kayseri-TURKEY

DONATIONS:



1st International Conference on Tribology - TURKEYTRIB '15

Welcome to TURKEYTRIB'15

The International Conference on Tribology – TURKEYTRIB'15 is organized by Yıldız Technical University, in Istanbul-TURKEY. TURKEYTRIB'15 takes place on October 7-9, 2015.

Turkeytrib'15 mainly focuses on Tribology and wide range of branches related to tribology. More than 145 presentations have been accepted for Conference from several countries.

The organization committee would like to thank all those who have helped in making the Conference better. It was a great pleasure for us to bring together specialists, research scientists and industrial technology developers together. TURKEYTRIB'15 is expected to stimulate new ideas and concepts, promoting further advances in the field of tribology.

I wish all participants a pleasant stay in the magnificent city of Istanbul and I am looking forward to seeing you all together at the Second International Conference on Tribology –probably in *TURKEYTRIB'18*.

Istanbul October, 2015

Professor Dr. Hakan KALELİ

Conference Chairman
President of the Organizing Committee

International Scientific Committee

President of The International Scientific Committee

Prof. Dr. Hakan KALELİ (Yıldız Technical University-Turkey)

Members:

Prof. Dr. Bharat BHUSHAN, USA
Research Director Dr. Yves BERTHIER, France
Prof. Dr. Ahmet T. Alpas, Canada
Prof. Dr. M. Baki KARAMIŞ, Turkey
Prof. Dr. Hüseyin ÇİMENÖĞLU, Turkey
Prof. Dr. Gençğa PÜRÇEK, Turkey
Prof. Dr. Ertuğrul DURAK, Turkey
Prof. Dr. Cem SİNANOĞLU, Turkey
Prof. Dr. Ayşegül AKDOĞAN EKER, Turkey
Prof. Dr. Lorena DELEANU, Romania
Prof. Dr. Ripa MINODORA, Romania
Prof. Dr. Emilia ASSENOVA, Bulgaria
Prof. Dr. Mara KANDEVA, Bulgaria
Prof. Dr. Aleksandar VENCL, Serbia
Prof. Dr. Anne NEVILLE, UK
Prof. Dr. Jeng-Haur HORNG, Taiwan
Prof. Dr. İlyas UYGUR, Turkey
Prof. Dr. Filiz KARAOSMANOĞLU, Turkey
Prof. Dr. Mustafa ÜRGEN, Turkey
Asst. Prof. Dr. Mohamed KCHAOU, Tunisia
Asst. Prof. Dr. Recai Fatih TUNAY, Turkey
Asst. Prof. Dr. Levent YÜKSEK, Turkey
Asst. Prof. Dr. Hasan ÖKTEM, Turkey
Mr. Anshuman DUBE, Ducom, India
Dr. Mohd Fadzli Bin ABDOLLAH; Malaysia

Organising Committee

HONORARY CHAIR

PROF. DR. İSMAİL YÜKSEK, (RECTOR OF YILDIZ TECHNICAL UNIVERSITY), TURKEY

Prof. Dr. Hakan KALELİ (Conference Chair)

Prof. Dr. Ayşegül AKDOĞAN EKER

Assoc. Prof. Dr. Zehra YUMURTACI (Conference Co-Chair)

Prof. Dr. Mehmet Baki KARAMIŞ, Turkish Tribological Association

Asst. Prof. Dr. Alper CERİT, Turkish Tribological Association

Yıldız Technical University

Yıldız Technical University

Yıldız Technical University

Erciyes University

Erciyes University

Conference Proceedings

All accepted **abstracts** of the papers are published in the Conference proceedings CD and distributed to the participants. Only previously unpublished papers will be accepted, and the corresponding author is responsible for the originality of the paper.

After the Conference, **selected papers** will be published in the special issues of the journals which are:

Industrial Lubrication and Tribology Journal. A special issue "TurkeyTrib15",

Tribology - Materials, Surfaces & Interfaces Journal in Maney Online,

Industrial Crops & Products Journal about "biobased lubricants",

And high quality **selected papers** will be recommended to be published in :

Journal of Tribology of ASME (The American Society of Mechanical Engineers),

And **papers selected by the scientific committee**, presented at the TurkeyTrib'15 conference, will be recommended to be published in:

Journal of the Balkan Tribological Association.

1st International Conference on Tribology - TURKEYTRIB '15

Conference fee includes:

- Attendance at all technical sessions, gala dinner, coffee breaks and conference materials and one copy of the proceedings CD of the conference TURKEYTRIB2015;
- ***Exhibition and posters access; Posters will be in vertical A2 (POSTERS must be in A2 (420mm × 594mm) size form). We advise to hang posters on 6th October 2015 after 13PM.***
- Proceedings on CD: The manuscripts (**only the abstracts**) accepted for the presentation will be published electronically and distributed to participants in a Conference bag within CD.
- Certificate of attendance will be provided only to the participants who want and paid the Conference Fee.

Conference lunch (7-9 October 2015) will be given at B Building (top floor with a Bosphorous view) “Çatı Restaurant” of Yıldız Campus (the building next to the Conference Hall), Yıldız Technical University, Beşiktaş, Istanbul, Turkey. The fee is 10 TL/person/day. It will be fixed menu and the number is limited to 100 people. ***Conference lunch is not included in the conference fee.***

For the papers which are not paid (they are in the list of papers in our website):

There will be no payment in registration desk. ***Names will be checked and Gala Dinner tickets will be provided the 7th october 2015 between 8.00-9.00 AM.*** Organisation committee prefer that the participants pay the registration fee by IBAN bank transfer due to the possible difficulties in giving the receipt on your arrival.

For the payment, there will be a long queue for the receipt. We will accompany you going to the bank to receive the receipt, (The payment will be made in ***Turkish Liras*** to Türkiye İş Bankası near the conference Hall, conference ID number and ***participant passports*** are required during bank transfer procedure) then to the payment department, it is necessary for your names to be in the list to give you the receipt etc..

For this reason it is better to complete this procedure on 6th October 2015, a day before the opening day of the conference.

Accommodation fee is not included in the conference fee. The participants must arrange their hotels themselves. We only suggest accommodation options.

Thank you for your cooperation,
Welcome to TURKEYTRIB'15-Istanbul-TURKEY

Professor Dr. Hakan KALELİ
Conference Chairman
President of the Organizing Committee

1st International Conference on Tribology - TURKEYTRIB '15

Programme

(Plenary speakers have 25 minutes, Technical presentations will take 10 to 12 minutes of speech time).

WEDNESDAY, 07.10.2015			
Time	Activity		
08:00-09:00	Registration of the participants Location: in the entrance of T Block, Auditorium, Yıldız Campus, Yıldız Technical University, Beşiktaş, Istanbul, Turkey		
09:00-09:30	Opening of the Conference-Auditorium Conference Hall (1st floor) Prof. Dr. İsmail YÜKSEK (Rector), Prof. Dr. Faruk YİĞİT (Dean), Prof. Dr. Ayşegül AKDOĞAN EKER (Head Of The Department) Prof. Dr. Hakan KALELİ (President)		
09:30-12:30	Plenary section Auditorium Conference Hall (1 st floor) Honorary Invited Research Director: Dr. Yves Berthier (Lamcos-INSA-FRANCE): Tribologie Numérique: de la phenomenologie au bilan énergétique d'un contact (friction, fiction, réalité!) Prof. Dr. Ahmet T. Alpas , University of Windsor (Canada), Chairholder of the Tribology of Materials Research Centre. TRIBOLOGY OF LIGHTWEIGHT AUTOMOTIVE COMPONENTS AND MANUFACTURING PROCESSES Prof. V. Arun Kumar , Department of Mechanical Engineering, Dr. Ambedkar Institute of Technology. Bengaluru, India. "FUTURISTIC BEARING SYSTEMS" Assc. Prof. Dr. Guoxin Xie , State Key Laboratory of Tribology, Tsinghua University, Beijing 100084, China. "LUBRICATION DESTABLIZATION UNDER CHARGED CONDITIONS" Dr. Deepak H. Veeregowda , Ducom Instruments Europe B.V, Center for Innovation, 9713GX, Groningen, the Netherlands. "FUNDAMENTALS AND APPLICATIONS OF AQUEOUS LUBRICATION MECHANISM" Dr. Steven J. SHAFFER , Bruker-USA, "A COMPARISON OF GALLING TEST METHODS USING AN EQUIVALENT ENERGY APPROACH " Dr. Benjamin Oevermann , NanoFocus AG, Oberhausen (Germany) "OPTICAL 3D SURFACE MEASUREMENT TECHNOLOGY FOR INDUSTRY AND RESEARCH"		
Time	Activity		
12:30-13:30	Lunch		
13:30-16:30	<table border="1"> <tr> <td>Auditorium Conference Hall (1st floor) (Lubrication and Lubricants) 8 papers</td> <td>Auditorium Conference Hall (Exhibition floor) Stand for the Companies-Posters DUCOM-TEKLAB, NANOFOCUS, BRUKER-ANATEK, PETROYAĞ, CORFIN and (Bearing Tribology, design and applications) 8 papers</td> </tr> </table>	Auditorium Conference Hall (1 st floor) (Lubrication and Lubricants) 8 papers	Auditorium Conference Hall (Exhibition floor) Stand for the Companies-Posters DUCOM-TEKLAB, NANOFOCUS, BRUKER-ANATEK, PETROYAĞ, CORFIN and (Bearing Tribology, design and applications) 8 papers
Auditorium Conference Hall (1 st floor) (Lubrication and Lubricants) 8 papers	Auditorium Conference Hall (Exhibition floor) Stand for the Companies-Posters DUCOM-TEKLAB, NANOFOCUS, BRUKER-ANATEK, PETROYAĞ, CORFIN and (Bearing Tribology, design and applications) 8 papers		

1st International Conference on Tribology - TURKEYTRIB '15

16:30-16:45	Coffee break	
16:45-19:00	Auditorium Conference Hall (1 st floor) (Additives) 9 papers	Auditorium Conference Hall (Exhibition floor) Stand for the Companies-Posters DUCOM-TEKLAB, NANOFOCUS, BRUKER- ANATEK, PETROYAĞ, CORFIN and (Fundamentals of Friction and Wear- Contact Mechanics- Tribotesting) 8 papers
19:00	Free Time	

1st International Conference on Tribology - TURKEYTRIB '15

THURSDAY, 08.10.2015		
Time	Activity	
09:00-10:00	<p>Plenary section Auditorium Conference Hall (1st floor) Dr. Mustafa DUYAR, FEV-TURKEY, “Elastohydrodynamics Analysis of Powertrain Bearings in Virtual Engine”</p> <p>Eleni SOULANTIKA, (Petroyağ Company), “Let’s Flow Counter-Current (Or Another Approach To Friction And Lubrication)”</p>	<p>Auditorium Conference Hall (Exhibition floor)</p> <p>Stand for the Companies-Posters DUCOM-TEKLAB, NANOFOCUS, BRUKER-ANATEK, PETROYAĞ, CORFIN</p> <p>No Presentation</p>
10:00-10:15	Coffee break	
10:15-12:15	<p>Auditorium Conference Hall (1st floor)</p> <p>(Surface engineering, Tribochemistry, Tribofilms) 6 papers</p>	<p>Auditorium Conference Hall (Exhibition floor)</p> <p>Stand for the Companies-Posters DUCOM-TEKLAB, NANOFOCUS, BRUKER-ANATEK, PETROYAĞ, CORFIN And (Biobased Lubricants) 5 papers</p>
12:15-13:15	Lunch	
13:15-15:45	<p>Auditorium Conference Hall (1st floor)</p> <p>(Engine-Automotive Tribology) 7 papers</p>	<p>Auditorium Conference Hall (Exhibition floor)</p> <p>Stand for the Companies-Posters DUCOM-TEKLAB, NANOFOCUS, BRUKER-ANATEK, PETROYAĞ, CORFIN and (Coating Tribology) 7 papers</p>
15:45-16:00	Coffee break	
16:00-18:30	<p>Auditorium Conference Hall (1st floor)</p> <p>(Materials; Mechanic components; Composites & Composites Material) 9 papers</p>	<p>Auditorium Conference Hall (Exhibition floor)</p> <p>Stand for the Companies-Posters DUCOM-TEKLAB, NANOFOCUS, BRUKER-ANATEK, PETROYAĞ, CORFIN and (Tribology in Manufacturing) 8 papers</p>
19:30	<p>Departure for <i>Gala Dinner</i> in front of Auditorium Conference Hall.</p> <p>Gala Dinner will take place (8th October 2015) as a private boat trip in Bosphorus. Dinner is included in the conference fee.</p> <p>Registrated participants (who paid the fee and presented their paper) as abstract or paper are Welcome to the Boat Trip.</p> <p>Transportation will be provided by Joy Joy Turizm http://en.joyjoyturizm.com/</p> <p>They will take the participants from the Conference Hall to the pier in Beşiktaş (very close to the University) and back to the same place.</p>	

1st International Conference on Tribology - TURKEYTRIB '15

Friday, 09.10.2015		
Time	Activity	
09:00-10:45	Auditorium Conference Hall (1 st floor) No Presentation	Auditorium Conference Hall (Exhibition floor) Presentation of the Companies-Posters DUCOM-TEKLAB, NANOFOCUS, BRUKER-ANATEK, PETROYAĞ, CORFIN and DUCOM Workshop Agenda for 9th October, 2015
10:45-11:00	Coffee break	
11:00-12:00	Auditorium Conference Hall (1 st floor) (Biotribology) 4 papers	Auditorium Conference Hall (Exhibition floor) Stand for the Companies-Posters DUCOM-TEKLAB, NANOFOCUS, BRUKER-ANATEK, PETROYAĞ, CORFIN and (Surface engineering, Tribochemistry, Tribofilms) 4 papers
12:00-13:00	Lunch	
13:00-16:00	Auditorium Conference Hall (1 st floor) (Fundamentals of Friction and Wear- Contact Mechanics- Tribotesting) 9 papers	Auditorium Conference Hall (Exhibition floor) Stand for the Companies-Posters DUCOM-TEKLAB, NANOFOCUS, BRUKER-ANATEK, PETROYAĞ, CORFIN and (Other topics related to tribology) 9 papers
16:00-16:15	Coffee break	
16:15-19:00	Auditorium Conference Hall (1 st floor) (Fundamentals of Friction and Wear- Contact Mechanics- Tribotesting) 6 papers (Other topics related to tribology) 4 papers	Auditorium Conference Hall (Exhibition floor) Stand for the Companies-Posters DUCOM-TEKLAB, NANOFOCUS, BRUKER-ANATEK, PETROYAĞ, CORFIN and (Coating Tribology) 5 papers (Bearing Tribology, design and applications) 4 papers
	End of the Conference	

1st International Conference on Tribology - TURKEYTRIB '15

WEDNESDAY, 07 October 2015, 09:30-12:30

Plenary section (PLE)

Auditorium Conference Hall (1st floor)

Chairman: Prof. Dr. Hakan Kaleli, Prof. Dr. M. Baki KARAMIŞ

Honorary Invited Research Director: Dr. Yves Berthier (Lamcos-INSA-FRANCE): Tribologie Numérique: de la phenomenologie au bilan énergétique d'un contact (friction, fiction, réalité!)

PLE 1	A. Banerji, S. Bhowmick, Prof. Dr. A. T. Alpas TRIBOLOGY OF LIGHTWEIGHT AUTOMOTIVE COMPONENTS AND MANUFACTURING PROCESSES
PLE 2	Prof. V. Arun Kumar FUTURISTIC BEARING SYSTEMS
PLE 3	Assoc. Prof. Dr. Guoxin Xie LUBRICATION DESTABILIZATION UNDER CHARGED CONDITIONS
PLE 4	Dr. Deepak H. Veeregowda FUNDAMENTALS AND APPLICATIONS OF AQUEOUS LUBRICATION MECHANISM
PLE 5	J. Shaffer, Bruker-USA A COMPARISON OF GALLING TEST METHODS USING AN EQUIVALENT ENERGY APPROACH
PLE 6	Dr. Benjamin Oevermann, NanoFocus AG, Oberhausen (Germany) OPTICAL 3D SURFACE MEASUREMENT TECHNOLOGY FOR INDUSTRY AND RESEARCH

WEDNESDAY, 07 October 2015, 13:30-16:30

Lubrication and Lubricants (LUB)

Auditorium Conference Hall (1st floor)

Chairmen: Prof. Dr. Ertuğrul DURAK, Asst. Prof. Dr. Levent YÜKSEK

LUB 1	Heji KE, Wei HUANG, Xiaolei WANG; CONTROLLING LUBRICANT MIGRATION USING FERROFLUIDS
LUB 2	Xuejin SHEN, Lei SHI, Zhenmin SONG, Xiaoyang CHEN; MONOCHROMATIC IMAGE ANALYSIS FOR ELASTOHYDRODYNAMIC LUBRICATION FILM OF FINITE LINE CONTACTS
LUB 3	Xiaoyang CHEN, Zhijian Wang, Xuejin SHEN; RECENT PROSPECTS FOR THE DEVELOPMENT OF EHL OF FINITE LINE CONTACTS
LUB 4	Achim FELDERMANN, Stephan NEUMANN, Prof. Dr.-Ing. Georg JACOBS; CFD SIMULATION OF ELASTOHYDRODYNAMIC LUBRICATION WITH REDUCED ORDER MODELS FOR FLUID-STRUCTURE INTERACTION
LUB 5	Nikolaos FOSKOLOS, Eleftherios KOUKOULOPOULOS, Christos I. PAPADOPOULOS; OPENMP AND CUDA IMPLEMENTATIONS OF NUMERICAL ALGORITHMS FOR THE SOLUTION OF HYDRODYNAMIC LUBRICATION PROBLEMS
LUB 6	M. Daliri, D. Jalali-Vahid; SQUEEZE FILM LUBRICATION OF CONICAL PLATES BY PIEZO-VISCOUS COUPLE STRESS FLUID CONSIDERING EFFECTS OF ROTATIONAL INERTIA
LUB 7	M. Daliri, E.Maani-Miandoab, M.Shameli; SQUEEZE FILM PERFORMANCE OF PARALLEL ANNULAR PLATES BY FERROFLUID COUPLE STRESS LUBRICANT CONSIDERING EFFECTS OF ROTATIONAL INERTIA
LUB 8	Ying DU, Tonghai WU, Renjie GONG; PROPERTIES OF WATER CONTAMINATED LUBRICATING OIL: VARIATION WITH TEMPERATURE AND SMALL WATER CONTENT

1st International Conference on Tribology - TURKEYTRIB '15

WEDNESDAY, 07 October 2015, 13:30-16:30
Bearing Tribology, design and applications (BET)
Auditorium Conference Hall (Exhibition floor)

Chairmen: Prof. Dr. N. S. Patel, Assoc. Prof. Dr. Juliana G. Javorova

BET 1	Hamit SARUHAN, Menderes KAM, Fuat KARA; DYNAMIC BEHAVIOR ANALYSIS OF ROTOR SUPPORTED BY DAMPED ROLLING ELEMENT BEARING HOUSING
BET 2	Ravikumar R N, Rathanraj K J, and Arun Kumar; PERFORMANCE STUDIES OF CASCADED AIR FOIL THRUST BEARINGS
BET 3	Prof. N. S. Patel, Dr. D. P. Vakharia, G. M. Deheri; EXPERIMENTAL ANALYSIS OF HYDRODYNAMIC JOURNAL BEARING CONSIDERING DIFFERENT GEOMETRIC AND MATERIAL ASPECTS
BET 4	Lijesh K.P., Muzakkir S.M., Harish HIRANI; CONTROL ON WEAR OF JOURNAL BEARING OPERATING IN MIXED LUBRICATION REGIME USING GROOVING ARRANGEMENTS
BET 5	Rufei Yu, Wei Chen; STUDY OF ELASTOHYDRODYNAMIC LUBRICATION OF A FINITE-LONG JOURNAL BEARING WITH PARTIAL SURFACE TEXTURE
BET 6	Anil kumar, Sandeep Soni, B. M. Sutaria, M. K. Bhatt, D. V. Bhatt; ANALYSIS OF TRIBOLOGICAL PARAMETERS ON CARBON STEEL USED IN SUGAR MILL ROLLS – A CASE STUDY
BET 7	Sandeep SONI, D.P. VAKHARIA; ANALYSIS OF FINITE JOURNAL BEARING IN TURBULENT REGIME CONSIDERING NON-NEWTONIAN LUBRICATION
BET 8	Hsiang-Chin Jao, Qie-Da Chen, Wang-Long Li; LINEAR STABILITY ANALYSIS OF HYDRODYNAMIC JOURNAL BEARING WITH NAVIER SLIP

WEDNESDAY, 07 October 2015, 16:45-19:00
Additives (ADT)
Auditorium Conference Hall (1st floor)

Chairmen: Prof. Dr. Emilia ASSENOVA, Prof. Dr. Ertuğrul DURAK

ADT 1	Emilia ASSENOVA, Mara KANDEVA, Dimitar KARASTOYANOV; SELF ORGANIZATION EFFECTS OF LUBRICANTS AND ADDITIVES IMPACT ON TRIBOLOGICAL SYSTEMS QUALITY,
ADT 2	Sathish Kumar, Lijesh K.P., Harish Hirani; RHEOLOGICAL MEASUREMENT OF REDISPERSIBILITY AND SETTLING TO ANALYZE THE EFFECT OF SURFACTANTS ON MR PARTICLES
ADT 3	Muhammad Ilman Hakimi Chua ABDULLAH, Noreffendy TAMALDIN, Mohd Fadzli Bin ABDOLLAH, Hilmi AMIRUDDIN, Nur Rashid Mat NURI; THE EFFECT OF hBN NANOPARTICLES ON THE EXTREME PRESSURE LUBRICATION
ADT 4	Kartik S. PONDICHERRY, Frederik WOLF; STUDYING THE EFFECT OF SOOT ON PERFORMANCE OF LUBRICANT ADDITIVES
ADT 5	Lijesh K.P., Muzakkir S.M., Harish Hirani; INFLUENCE OF SURFACTANTS ON TRIBOLOGICAL BEHAVIORS OF MWCNT
ADT 6	Mithat ŞİMŞEK, Özlem SALMAN NTEZIYAREMYE, Hakan KALELİ, Recai Fatih TUNAY, Ertuğrul DURAK; INVESTIGATION OF FRICTION PERFORMANCE OF COMMERCIAL OIL ADDITIVE USING IN THE VEHICLES
ADT 7	Doğuş ÖZKAN, M.Barış YAĞCI, Özgür BİRER and Hakan KALELİ; COMPARISON TRIBOLOGICAL PERFORMANCES OF SULFUR BASED AND BORON SUCCUMINIDE CONTAINING ANTIWEAR ADDITIVE WITH ZDDP by ENGINE BENCH TESTS
ADT 8	Mohd Fadzli Bin ABDOLLAH, Nor Azmmi Bin MASRIPAN, Hilmi AMIRUDDIN, Noreffendy TAMALDIN; BANANA PEEL AS A POTENTIAL ADDITIVE IN LUBRICANT
ADT 9	Emil NOWIŃSKI; SPECIAL ADDITIVES INFLUENCE ON WEAR OF SLIDING ELEMENTS LUBRICATED WITH MAGNETORHEOLOGICAL FLUIDS

1st International Conference on Tribology - TURKEYTRIB '15

WEDNESDAY, 07 October 2015, 16:45-19:00

Fundamentals of Friction and Wear- Contact Mechanics- Tribotesting (FFW)

Auditorium Conference Hall (Exhibition floor)

Chairmen: Prof. Dr. Lorena DELEANU, Prof. Dr. Gençağa PÜRÇEK

FFW 1	Catalin Pirvu, Laura MAFTEI, Constantin GEORGESCU, Lorena DELEANU; MAPS OF 3D PARAMETERS FOR WORN SURFACES OF COMPOSITES PA + GLASS BEADS SLIDING ON STEEL
FFW 2	Thawhid Khan, Prof. Anne Neville, Prof. Ardian Morina; Yukio Tamura, Hiroshi Yamamoto; FRICTION AND WEAR REDUCTION MECHANISMS OF OXY-NITRIDED TREATED SAMPLES
FFW 3	Harun YANAR, Gençağa PÜRÇEK, Dursun Murat SEKBAN, Semih Mahmut AKTERER; EFFECT OF FRICTION STIR PROCESSING ON TRIBOLOGICAL PERFORMANCE OF LOW CARBON STEELS
FFW 4	Jeng-Haur HORNG, Yang-Yuan CHEN, Chin-Chung WEI; INTRODUCTION TO FRICTION COEFFICIENT IN DRY THREE-BODY CONTACT
FFW 5	Fathi A. ELSHUKRI, Roger LEWIS; AN EXPERIMENTAL INVESTIGATION AND IMPROVEMENT OF INSULATED RAIL JOINTS (IRJs)
FFW 6	Dorin RUS, Lucian CAPITANU; A RELATON BETWEEN FRICTION, WEAR AND CONTACT TEMPERATURE ON STEEL SURFACE IN LINEAR DRY FRICTION CONTACT WITH POLIMERS WITH SGF
FFW 7	Özlem SALMAN NTEZIYAREMYE, Ertuğrul DURAK, Recai Fatih TUNAY, Mithat ŞİMŞEK; FRICTION BEHAVIOUR OF SOME ENGINEERING PLASTICS
FFW 8	Mitul SOLANKI, Dr. D. P. VAKHARIA; A FINITE ELEMENT ANALYSIS OF AN ELASTIC CONTACT BETWEEN A LAYERED CYLINDRICAL HOLLOW ROLLER AND FLAT CONTACT

1st International Conference on Tribology - TURKEYTRIB '15

THURSDAY, 08 October 2015, 09:00-10:00

Plenary section (PLE)

Auditorium Conference Hall (1st floor)

Chairman: Prof. Dr. Hakan Kaleli and Prof. Dr. Hüseyin ÇİMENOĞLU

PLE 7	Dr. Mustafa DUYAR ELASTOHYDRODYNAMIC ANALYSIS OF POWERTRAIN BEARINGS IN FEV VIRTUAL ENGINE
PLE 8	Eleni SOULANTIKA LET`S FLOW COUNTER-CURRENT (OR ANOTHER APPROACH TO FRICTION AND LUBRICATION)

THURSDAY, 08 October 2015, 10:15-12:15

Surface engineering, Tribochemistry, Tribofilms (STT)

Auditorium Conference Hall (1st floor)

Chairmen: Prof. Dr. Hüseyin ÇİMENOĞLU and Prof. Dr. Hakan Kaleli

STT 1	Prof. Dr.-Ing. C. Busch, M.Eng. S. Weber; THE ANSWER TO FRETTING WEAR – REACTIVE WHITE SOLID LUBRICANTS: New developments based on unclassified additives according to EU Regulations
STT 2	MacDonald Ofune, Ardian Morina, Anne Neville; EFFECTS OF TRIBOFILM DISPERSION AND DURABILITY ON INSERT WEAR IN A SINGLE CAM TRIBOMETER
STT 3	Lukman ANIMASHAUN, Chun WANG, Ardian MORINA and Anne NEVILLE ; INFLUENCE OF TEMPERATURE ON TRIBOCHEMICAL AND DURABILITY BEHAVIOUR OF BORON-CONTAINING LUBRICANT ADDITIVES
STT 4	Ali Ghanbarzadeh, Pourya Parsaeian, Mark Wilson, Ardian Morina, Anne Neville; A SEMI-DETERMINISTIC WEAR MODEL CONSIDERING THE EFFECT OF ZINC DIALKYL DITHIOPHOSPHATE TRIBOFILM
STT 5	Amir Motallebzadeh, Erdem Atar, Hüseyin Çimenoglu; RAMAN SPECTROSCOPY CHARACTERIZATION OF HYPO-EUTECTIC CoCrWC ALLOY TRIBOLAYERS
STT 6	Hasan GÜLERYÜZ, Hüseyin ÇİMENOĞLU; EFFECT OF ENGINEERED SURFACES ON WEAR RESISTANCE OF A Ti6Al4V ALLOY

THURSDAY, 08 October 2015, 10:15-12:15

Biobased lubricants (BIL)

Auditorium Conference Hall (Exhibition floor)

Chairmen: Prof. Dr. Lorena DELEANU, Dr. Emil NOWIŃSKI

BIL 1	Constantin GEORGESCU, Liviu Catalin SOLEA, George Catalin CRISTEA, Lorena DELEANU; ON LUBRICATING CHARACTERISTICS OF RAPESEED OILS
BIL 2	Rabab M. Nasser, Nehal S. Ahmed, Amal M. Nassar; ECO-FRIENDLY BIO-BASED LUBE OIL ADDITIVES
BIL 3	Patrick ROHLMANN, Oleg N.ANTZUTKIN, Mark W. RUTLAND, and Sergei GLAVATSKIH; TRIBOLOGICAL PERFORMANCE OF IONIC LIQUIDS AS ADDITIVES IN BIODEGRADABLE OILS
BIL 4	S.S.N. Azman, N.W.M. Zulkifli, and H.H.Masjuki; OXIDATIVE DEGRADATION OF BIO-BASED LUBRICANTS AND THE EFFECTS ON TRIBOLOGICAL PERFORMANCE
BIL 5	Emil NOWIŃSKI, Krzysztof KRAWCZYK; CHANGES OF FRICTION CONDITIONS DURING DC VOLTAGE INFLUENCE ON FRICTION PAIR

1st International Conference on Tribology - TURKEYTRIB '15

THURSDAY, 08 October 2015, 13:15-15:45

Engine-Automotive Tribology (EAT)

Auditorium Conference Hall (1st floor)

Chairmen: Prof. Dr. Pantelis Nikolakopoulos, Prof. Dr. Josef Schlattmann

EAT 1	Anastasios ZAVOS, Pantelis G. NIKOLAKOPOULOS; COATED AND UNCOATED TOP COMPRESSION PISTON RING THERMO-MIXED LUBRICATION ANALYSIS
EAT 2	Oday I. Abdullah; Josef Schlattmann; EFFECT OF RESTRICTION CONDITION ON THE CONTACT PRESSURE DISTRIBUTION OF MULTI-DISC CLUTCHES
EAT 3	Farnaz Motamen Salehi, Ardian Morina, Anne Neville; A STUDY OF THE EFFECT OF OIL CONTAMINATION ON WEAR MECHANISMS OF ENGINE OIL PUMP
EAT 4	Ulas MALCIOGLU, Yakup YUREKTURK, Faiz MUHAFFEL, Murat BAYDOGAN; TRIBOLOGICAL INVESTIGATION OF AUSTEMPERED GREY CAST IRON FOR AUTOMOTIVE COMPONENTS UNDER DRY SLIDING CONDITIONS
EAT 5	Ahmad Afiq PAUZI, Mariyam Jameelah GHAZALI, Salmi MOHD YUNUS, Wan Fathul Hakim W.ZAMRI, Che Husna AZHARI, Shuib HUSIN, Mohd. Fadzli ABDOLLAH; WEAR CHARACTERISTICS OF COMMERCIAL GAS TURBINE COMPONENTS
EAT 6	İlyas UYGUR, Hasan ÖKTEM, Gülşah AKINCIOĞLU, Sıtkı AKINCIOĞLU, Suat SARIDEMİR; INVESTIGATION OF THE PERFORMANCE OF BRAKE PADS PRODUCED WITH THE NATURAL DUSTS
EAT 7	Suat SARIDEMİR; THE EFFECTS OF LUBRICANT FEATURES TO A SINGLE CYLINDER DIESEL ENGINE ACOUSTIC AND VIBRATION CHARACTERISTICS

THURSDAY, 08 October 2015, 13:15-15:45

Coating Tribology (COT)

Auditorium Conference Hall (Exhibition floor)

Chairmen: Prof.Dr. Nasser Eddine BELIARDOUH, Dr. Michail Vardavoulis

COT 1	Serkan ISLAK, Cihan ÖZORAK, Tevfik SEZGİN, Mehmet AKKAŞ, Durmuş KIR; MICROSTRUCTURE CHARACTERIZATION OF Mo-Si-B BASED COATINGS
COT 2	A. Mohammed, R. Lewis, M. Marshall; EVALUATION OF EROSION WEAR RESISTANCE OF COMMERCIAL HARD COATINGS WITH PLASMA NITRIDE AND WITHOUT PLASMA NITRIDE IN ALUMINIUM DIE CASTING
COT 3	Wolfram SCHARFF, Mikhail IGNATEV, Antje Wilhelms; MODIFICATION OF THERMAL SPRAY COATINGS WITH SOLID LUBRICANTS TO IMPROVE WEAR RESISTANCE UNDER HIGH TEMPERATURE
COT 4	M. Sedlaček, B. Podgornik, B. Zajec, S. Paskvale; INFLUENCE OF HEAT TREATMENT ON THE DYNAMIC WEAR PROPERTIES OF COATED HIGH SPEED STEEL
COT 5	Nasser Eddine BELIARDOUH, Corinne NOUVEAU, Hakan KALELI; SLIDING WEAR BEHAVIOR OF MAGNETRON SPUTTERED CHROMIUM CARBIDE THIN FILMS
COT 6	Gökhan KARA, Gençağa PÜRÇEK and Harun YANAR; IMPROVEMENT OF WEAR BEHAVIOUR OF TITANIUM BY BORIDING
COT 7	Michail VARDAVOULIAS, Athanasios MOURLAS, Pandora PSYLLAKI; A COMPARATIVE STUDY ON THE TRIBOLOGICAL BEHAVIOUR OF Cr-oxide AND Cr-carbide THERMAL SPRAY COATINGS

1st International Conference on Tribology - TURKEYTRIB '15

THURSDAY, 08 October 2015, 16:00-18:30

Materials; Mechanic components; Composites & Composites Material (MCM)

Auditorium Conference Hall (1st floor)

Chairmen: Prof. Dr. Ripa MINODORA, Asst. Prof. Dr. Alper CERİT

MCM 1	Temel VAROL, Aykut CANAKCI; AN INVESTIGATION ON WEAR BEHAVIOR OF CU–GRAPHITE NANOCOMPOSITES PREPARED BY FLAKE POWDER METALLURGY
MCM 2	Fatih ERDEMİR, Aykut CANAKCI, Temel VAROL, Serdar OZKAYA; WEAR BEHAVIOR OF Al ₂ O ₃ /SiC COMPOSITES PRODUCED BY POWDER METALLURGY METHODS
MCM 3	Mehmet Baki KARAMIŞ, Fatma Nazlı SARI, Yahya KAYA; FRICTION BEHAVIOUR OF THE HYBRID Mg ALLOY COMPOSITES REINFORCED WITH CARBON NANOTUBE AND CERIUM
MCM 4	Amira BOUAZIZ, Ridha ABDELHEDI, Mohamed JAZIRI; STUDY ON MECHANICAL PROPERTIES OF POLYPROPYLENE/ELASTOMER/SILICA NANOCOMPOSITES: EFFECTS OF AND INTERFACIAL INTERACTIONS
MCM 5	Ozde DEPREM, Hilmi PAKSOY, Onur TAZEGUL, Huseyin CIMENOGLU; TRIBOLOGICAL BEHAVIOUR OF SiC _p REINFORCED Al ₁₂ Si MATRIX COMPOSITE COATINGS IN WATER
MCM 6	Virgil ILIUȚĂ, Minodora RÎPĂ, Gabriel ANDREI; WEAR ASSESSMENT OF POLYMER COMPOSITES FILLED WITH METAL PARTICLES, THROUGH SCRATCH TEST
MCM 7	Zhesfina Michailovna Blednova, Peter Olegovich Rusinov, Etibar Yusif Balayev, Anna Pavlovna Jurkova; FORMATION AND THERMOMECHANICAL BEHAVIOR OF COMPOSITE SURFACE LAYER CONTAINING MATERIALS WITH SHAPE MEMORY DURING FRICTION-CYCLING LOADING
MCM 8	Levent KARA, Mustafa ASLAN, Tevfik KÜÇÜKÖMEROĞLU; TRIBOLOGICAL AND HARDNESS PERFORMANCE OF CARBON, GLASS FILLED SISAL-POLYPROPYLENE COMPOSITES
MCM 9	A. Alper CERİT, M. Baki KARAMIŞ, Fehmi NAİR, Burhan SELÇUK; WEAR BEHAVIOUR OF THE METAL MATRIX CERAMIC PARTICLE REINFORCED COMPOSITE CAMS

THURSDAY, 08 October 2015, 16:00-18:30

Tribology in Manufacturing (TM)

Auditorium Conference Hall (Exhibition floor)

Chairmen: Prof. Dr. Aleksandar VENCL, Dr. Achim FELDERMANN

TM 1	Bojan PODGORNIK, Vojteh LESKOVŠEK; EFFECT OF SI-CONTENT AND VACUUM HEAT TREATMENT ON THE LOAD CARRYING CAPACITY AND WEAR PROPERTIES OF HOT WORK TOOL STEEL
TM 2	Alper UYSAL; INVESTIGATION OF FLANK WEAR IN MQL MILLING OF FERRITIC STAINLESS STEEL BY USING NANO GRAPHENE REINFORCED VEGETABLE CUTTING FLUID
TM 3	Ömer Necati CORA, Ali AĞCAYAZI, Muammer KOÇ; STAMPING DIE WEAR INVESTIGATION WITH DIFFERENT HARD-COATINGS
TM 4	Imene ABDEDAIM, El hadj OUAKDI, Rachid LOUAHDI; THE EFFECT OF HOLDING FORCE, SHEET'S SIZE AND STRECHING HEIGHT ON SPRINBACK IN A STRECH-BENDING TEST
TM 5	Mohieddine Benghersallah, Salim Belhadi, Lakhdar Boulanouar; STATITICAL ANALYSIS OF SURFACE ROUGHNESS AND TOOL LIFE USING (RSM) IN FACE MILLING OF AISI 52100 BEARING STEEL WITH MULTILAYER COATING CUTTING TOOL
TM 6	M. Benghersallah, G. List, G. Sutter; DRY HIGH SPEED ORTHOGONAL TURNING OF Ti-6Al-4V TITANIUM ALLOY
TM 7	Mara KANDEVA, Tinka GROZDANOVA, Dimitar KARASTOYANOV, Boriana IVANOVA and Aleksandar VENCL; WEAR UNDER VIBRATION CONDITIONS OF SPHEROIDAL GRAPHITE CAST IRON MICROALLOYED BY Sn
TM 8	Lamia Darsouni, Djamel Toualbia, Abdelkader Khettache and Abderrazek. Darsouni; STUDY OF THE RHEOLOGICAL BEHAVIOUR OF A HOT STEEL ALLOYED WITH Nb, V AND Ti

1st International Conference on Tribology - TURKEYTRIB '15

FRIDAY, 09 October 2015, 09:00-10:45
DUCOM Workshop Agenda for 9th October, 2015 (DW)
Auditorium Conference Hall (Exhibition floor)

DW 1	DUCOM Workshop Agenda for 9th October, 2015
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Time	Activity
09:00 to 9:20	Talk- "Novel instruments to accelerate high temperature tribology research"
09:30 to 09:50	Talk – "Investigating cross shear wear using multimotion biotribometer"
10:00 to 10:20	Live demonstration and training on Ducom High Temperature Pin on Disc
10:30 to 10:45	Live demonstration and training on Ducom Multimotion Biotribometer

FRIDAY, 09 October 2015, 11:00-12:00
Biotribology (BT)
Auditorium Conference Hall (1st floor)

Chairmen: Prof. Dr. Virgil Florescu, Asst. Prof. Dr. Zeynep PARLAR

BT 1	Andrei Zoltan FARKAŞ, Veronica ARGEŞANU, Mihaela JULA, Raul Mikloş KULCSAR, Carmen STICLARU; MODELING, SIMULATION AND DETERMINATION OF THE STATE OF TENSION AND DEFORMATION OF THE SPINE
BT 2	Lucian CAPITANU, Virgil FLORESCU, Liliana-Laura BADITA; DAMAGE ESTIMATOR – a POSSIBLE WAY TO PREDICT THE FAILURE OF HIP AND KNEE ENDOPROSTHESIS
BT 3	Lucian CAPITANU, Luige VLADAREANU; TOTAL KNEE WEAR PREDICTION OF UHMWPE TIBIAL INSERT USING VIPRO PLATFORM
BT 4	Hisham A Abdel-Aal; HIERARCHICAL STRUCTURE OF VENTRAL SCALES IN LIMBLESS REPTILES AS A BIO-INSPIRATION FOR MULTI-SCALE DETERMINISTIC TRIBOLOGICAL SURFACES

FRIDAY, 09 October 2015, 11:00-12:00
Surface engineering, Tribochemistry, Tribofilms (STT)
Auditorium Conference Hall (Exhibition floor)

Chairmen: Assc. Prof. Dr. Guoxin Xie, Asst. Prof. Dr. Binnur SAĞBAŞ

SST 7	H. Tarik BAYTEKIN; THE MOSAIC OF TRIBOELECTRIFICATION IN FRICTION
SST 8	Ziyi Cui, Guoxin Xie, Dan Guo, Jianbin Luo; EVALUATION OF THE TRIBOLOGICAL PROPERTIES OF BLACK PHOSPHORUS WITH A MICROTRIBOMETER
SST 9	Binnur SAĞBAŞ; EFFECT OF ARGON PLASMA SURFACE MODIFICATION ON TRIBOLOGICAL BEHAVIOR OF BIOPOLYMERS
SST 10	Quan Wang, Yun Li; NANO-TRIBOLOGICAL PROPERTIES OF SINGLE LAYER GRAPHENE ANNEALED IN AIR AMBIENT

1st International Conference on Tribology - TURKEYTRIB '15

FRIDAY, 09 October 2015, 13:00-16:00

Fundamentals of Friction and Wear- Contact Mechanics- Tribotesting (FFW)

Auditorium Conference Hall (1st floor)

Chairmen: Asst. Prof. Dr. Levent YÜKSEK, Asst. Prof. Dr. Zeynep PARLAR

FFW 9	Hisham A Abdel-Aal; DRY SLIDING OF WC-CO ON TITANIUM UNDER THE INFLUENCE OF BIASING DC-CURRENT
FFW 10	Harun YANAR, Genççağa PÜRÇEK, Dursun Murat SEKBAN, Semih AKTERER, Tefvik KÜÇÜKÖMEROĞLU, Yasin ALEMDAĞ; SURFACE HARDENING OF Al-12Si ALLOY BY FRICTION STIR PROCESSING AND ITS EFFECT ON FRICTION AND WEAR PROPERTIES
FFW 11	Zeynep PARLAR, Shahrad SAMANKAN, Vedat TEMİZ; THE EFFECT OF COUNTERFACE ROUGHNESS ON THE TRIBOLOGICAL BEHAVIOUR OF FILLED AND UNFILLED PTFE
FFW 12	Viktor KRASMIK, Nils RÖBKEN, Christoph MARTIN, Peter MARTIN, Josef SCHLATTMANN; TIME-RESOLVED ONLINE DETECTION OF WEAR PARTICLES IN AN OIL LUBRICATED BALL-ON-PRISM TEST SETUP
FFW 13	George KARAFYLLIAS, Lampros GIOURNTAS, Trevor HODGKIESS, Alexander GALLOWAY, Alastair PEARSON; CORROSIVE WEAR BEHAVIOUR OF VARIOUS NITRIDING TREATMENTS ON A LOW ALLOY STEEL
FFW 14	W. H. Kao, S. E. Yang, Y. L. Su, J. T. Hung; TRIBOLOGICAL PERFORMANCE, ELECTROCHEMICAL BEHAVIOUR AND BIOCOMPATIBILITY OF HIGH-TEMPERATURE GAS-NITRADED Ti6Al4V ALLOY
FFW 15	Lamia Darsouni, Djamel Toualbia and Abderrazek Darsouni; HOT DEFORMATION BEHAVIOUR AND MICROSTRUCTURAL EVOLUTION OF TITANIUM ALLOY TA6V
FFW 16	Sergey V. Fedorov; STRUCTURAL-ENERGETIC REGULARITIES OF EVALUTION FOR THE TRIBOSYSTEMS
FFW 17	Kazuo ARAKAWA; HARDNESS EFFECT OF CONTACT SURFACE ON DYNAMIC SLIDING VELOCITY

FRIDAY, 09 October 2015, 13:00-16:00

Other topics related to tribology (OTT)

Auditorium Conference Hall (Exhibition floor)

Chairmen: Assoc. Prof. Dr. Harun MINDIVAN, Dr. Keskes BOUALEM

OTT 1	Evgenia KOZHOUKHAROVA; TRIBOLOGICAL PROCESSES IN THE EARTH'S CRUST
OTT 2	Keskes BOUALEM; EXPERIMENTAL ANALYSIS AND MODELLING FLEXURAL FATIGUE BEHAVIOUR OF NOMEX HONEYCOMB SANDWICH
OTT 3	Nadia HAMMOUDA, Kamel BELMOKRE; EIS STUDY OF THE CORROSION BEHAVIOR OF AN ORGANIC COATING APPLIED ON ALGERIAN OIL TANKER
OTT 4	Hocine GUECHICHI, Mohamed BENKHETTAB; FINITE ELEMENT MODELLING OF RESIDUAL STRESS AND ASSOCIATED PLASTIC STRAIN GENERATED BY THE SHOT-PEENING PROCESS
OTT 5	Ahmed BOUZIDANE, Asmaa ABED, Amina NEMCHI, Faiza Ghezali, Mohamed Elguerri and Mustafa Bencheikh; PERFORMANCE ANALYSIS OF A FOUR-PAD HYDROSTATIC SQUEEZE FILM DAMPER LUBRICATED WITH FERROFLUID
OTT 6	Asmaa ABED, Ahmed BOUZIDANE, Marc THOMAS, Hamou ZAHLOUL, Amina NEMCHI; PERFORMANCE CHARACTERISTICS OF A NEW ELECTRO-RHEOLOGICAL VALVE THREE-PAD HYDROSTATIC SQUEEZE FILM DAMPERS,
OTT 7	Amina NEMCHI, Ahmed BOUZIDANE, Marc THOMAS, Asma ABED, Mourad Kedadouche; INFLUENCE OF TURBULENT FLOW REGIME ON DYNAMIC BEHAVIOUR OF A RIGID ROTOR ON FOUR-PAD HYDROSTATIC SQUEEZE FILM DAMPERS LOADED BETWEEN PADS
OTT 8	Faiza Ghezali, Ahmed BOUZIDANE, Hicham AboShighiba, Marc THOMAS; THREE-DIMENSIONAL PRESSURE PATTERNS IN A HYDROSTATIC BEARING LUBRICATED BY FERROFLUIDS
OTT 9	Hicham AboShighiba, Ahmed BOUZIDANE, Faiza Ghezali, Marc THOMAS; Amina NEMCHI, Asmaa ABED; TURBULENT AND INERTIA EFFECTS ON THE PRESSURE DISTRIBUTION IN ORIFICE COMPENSATED HYDROSTATIC BEARING USING NUMERICAL SIMULATIONS VIA NAVIER STOKES

1st International Conference on Tribology - TURKEYTRIB '15

FRIDAY, 09 October 2015, 16:15-19:00

Fundamentals of Friction and Wear- Contact Mechanics- Tribotesting (FFW) and Other topics related to tribology (OTT)

Auditorium Conference Hall (Exhibition floor)

Chairmen: Prof. Dr. Mohamed Bouaziz, Dr. Liana BOGATU

FFW 18	Yasin ALEMDAĞ, Gençğa PÜRÇEK, Murat BEDER; EFFECT OF AGE HARDENING ON THE WEAR BEHAVIOUR OF THE Al-7Si-4Zn-3Cu ALLOY
FFW 19	Dorin RUS, Lucian CAPITANU, Virgil FLORESCU; DRY FRICTION SLIDING CONTACT POLYMER WITH SGF ON STEEL, REPRESENTED AS A TRIBOSISTEM WITH EVOLUTION IN CLOSED – LOOP
FFW 20	Yavuz KAPLAN, Ahmet Çetin CAN, Arzum ULUKÖY; AN EXPERIMENTAL STUDY ON WEAR BEHAVIOR OF BORONIZED Ti6Al4V ALLOY UNDER DRY AND WET SLIDING CONDITIONS
FFW 21	Marcin MICHALOWSKI, Zygmunt RYMUZA, Rodica VOICU, Cosmin OBREJA, Angela BARACU, Raluca MULLER; ADHESIVE AND FRICTIONAL PROPERTIES OF ULTRATHIN POLYSILICON FILMS
FFW 22	Liana BOGATU; INFLUENCE OF ANTIWEAR AND EXTREME PRESSURE ADDITIVES ON THE VEGETABLE OILS BEHAVIOR
FFW 23	Levent KARA, Tevfik KÜÇÜKÖMEROĞLU, Yaşar SERT; THE EFFECT OF VACUUM ENVIRONMENT ON THE FRICTION AND WEAR BEHAVIOR OF NICKEL ALUMINUM BRONZE
OTT 10	Sonda Ammar, Samia Ben Brahim, Boutheina Gargouri, Mohamed Bouaziz; VOLATILES COMPOUNDS, SENSORIAL CHARACTERISTIC AND QUALITY PARAMETERS AS A FUNCTION OF OLIVE OIL EXTRACTION SYSTEMS
OTT 11	D. Lamrous, M.Y.Debili, E. Boehm-Courjault; PHASE TRANSFORMATIONS IN MAGNETIC INDUCTION FUSED AL-ZN ALLOYS
OTT 12	S. BENAÏSSA, T.CHELOUFI and A.GASMI; THE EFFECT OF TREATMENT ON PROPERTIES THERMOMECHANICAL BEHAVIOR OF POLY (VINYLIDENE FLUORIDE) (PVDF)
OTT 13	M. BOUCHEKARA, M. Safi, M. Sassi, A. Djafri, C. Roussel; REMOVAL OF METAL IONS FROM AQUEOUS SOLUTIONS BY SORPTION ONTO INTERCALATE ALGERIAN BENTONITE

FRIDAY, 09 October 2015, 16:15-19:00

Coating Tribology (COT) and Bearing Tribology, design and applications (BET)

Auditorium Conference Hall (Exhibition floor)

Chairmen: Prof. Dr. Hisham A Abdel-Aal, Prof. G. D. Bassan

COT 8	Michail VARDAVOULIAS; INDUSTRIAL THERMAL SPRAY COATINGS FOR TRIBOLOGICAL APPLICATIONS
COT 9	Wolfram SCHARFF, Mikhail IGNATEV, Antje Wilhelms, Zsolt Baranyai, Balázs Ring; STUDY OF SOLID LUBRICANT POWDERS INTENDED FOR IMPROVEMENT OF PERFORMANCE OF THERMAL SPRAY COATINGS UNDER HIGH TEMPERATURES
COT 10	W. Aperador; ELECTROCHEMICAL IMPEDANCE STUDIES ON TRIBOCORROSION OF COATINGS ALTiN DEPOSITED ON AUSTENITIC STEELS
COT 11	Harun MINDİVAN; INVESTIGATION OF THERMOCHEMICAL BORIDING EFFECT ON WEAR BEHAVIOR OF A GGG 50 QUALITY AS-CAST DUCTILE IRON
COT 12	VELKO RUPETSOV, GEORGI MISHEV, STEFAN DISHLIEV, VIKTOR KOPANOV, VASSILY CHITANOV, LILYANA KOLAKLIEVA, CHAVDAR PASHINSKI; INCREASING THE WEAR RESISTANCE OF 1.2343 STEEL FOR INJECTION MOLDS WITH Ti/TiN/TiCN/nc-TiCN:a-C/nc-TiC:a-C/a-C NANOCOMPOSITE COATING
BET 9	Prof. G. D. Bassan, Dr. D. P. Vakharia; THEORETICAL & EXPERIMENTAL ANALYSIS OF TAPERED ROLLER BEARING FOR INCREASING FATIGUE LIFE
BET 10	Yaşar ŞEVİK, Ertuğrul DURAK; INVESTIGATION OF FRETTING WEAR IN JOURNAL BEARINGS
BET 11	Simeon PANEV, Juliana JAVOROVA; AN IDENTIFICATION TASK FOR THE MOMENT OF FRICTION IN BEARING SEALS
BET 12	Hussein MIRZAYEV; NEW CALCULATION METHOD OF THE HYDRODYNAMIC JOURNAL BEARINGS

1st International Conference on Tribology - TURKEYTRIB '15

07-09 October 2015 List of Posters (POS)

Auditorium Conference Hall (Exhibition floor)-*POSTERS must be in A2 (420mm × 594mm) size form*

POS 1	M. Adabi, A. Amadeh; SLIDING WEAR BEHAVIOR OF ELECTRODEPOSITED NI COMPOSITE COATINGS CONTAINING AL PARTICLES,
POS 2	Aykut CANAKCI, Temel VAROL, Sukru OZSAHİN; APPLICATION OF BACK-PROPAGATION NEURAL NETWORK TECHNIQUE TO PREDICTION OF THE ABRASIVE WEAR BEHAVIOR OF Al2014/B4C COMPOSITE
POS 3	Aykut CANAKCI; EFFECT OF B4C ADDITION ON WEAR BEHAVIOUR OF AlCuMg NANOCOMPOSITES
POS 4	Chenglong Lian, Kwang-Hee Lee, Chul-Hee Lee; ROLLING FRICTION PROPERTY OF MAGNETO-RHEOLOGICAL ELASTOMER
POS 5	Seddik BOURAS, Inès ZERIZER, Farid GHELDANE; STUDY OF THE RESISTANCE TO CRACK PROPAGATION IN THERMAL INSULATION MATERIALS
POS 6	Farid Gheldane, Seddik BOURAS; MICROSTRUCTURE AND MECHANICAL BEHAVIOUR OF ALUMINA MULLITE ZIRCONIA COMPOSITES OBTAINED BY REACTION SINTERING
POS 7	Tahar CHELOUFI, Ali GASMI; EFFECT OF ADDITIVES ON THE CRYSTAL STRUCTURE OF THE LOW DENSITY POLYETHYLENE (LDPE) IRRADIATED BY UV RADIATION
POS 8	Fatiha Keraghel, K. Loucif, Boualem Keskes; ABILITY OF SINTERED BRONZE PRESSURE FROM POWDER Cu-10% Sn PREALLOYED FOR BEARINGS
POS 9	Fatiha KERAGHEL, Kamel LOUCIF; TRIBOLOGICAL CHARACTERIZATION OF A SINTERED BRONZE Cu8%Sn
POS 10	Chems Eddine Ramoul, Nasser Eddine BELIARDOUH; COMPARATIVE STUDY ON THE ELECTROCHEMICAL BEHAVIOR OF ALUMINUM CASTING ALLOYS (AlSi7Mg0,3) AND (AlMg5Si) IN CHLORIDE AQUEOUS SOLUTION
POS 11	Mohamed Zine TOUHAMI, Said MECHACHTI, Abdelkader KHETTACHE, Bouguerra BOUZABATA, Horst WEIß, Xin JIANG; ELABORATION AND CHARACTERIZATION OF DIAMOND-LIKE CARBON FILMS PREPARED BY MW/ECR-PACVD PROCESS DEPOSITED ON 41CrAlMo7 NITRIDED STEEL
POS 12	Amine HAMDJ, Toufik ALIOUANE, Djamel BOUZID; INFLUENCE OF TECHNOLOGICAL PARAMETERS OF BELT FINISHING PROCESS OF 100C6 TEMPERED STEEL
POS 13	Hind LAOUAMRI, Nouredine BOUAOUADJA; SCRATCH BEHAVIOR OF SILICA AND PVB COATINGS DEPOSITED ON SANDBLASTED GLASS
POS 14	Abdennacer Chemami, Youcef KHADRI, Rabah BOURENANE, Belkacem BOUZITOUNA, Kamel BEY; MODELING DAMAGE OF COMPOSITE SANDWICH FOAM-LAMINATED GLASS/EPOXY UNDER THREE-POINT BENDING FATIGUE
POS 15	Fatiha HADJOUR, Fatima BOUMAZA; INVESTIGATION OF THE VARIATION IN NITROGEN AND COMBINATION NITROGEN-FLUORINE ON ACOUSTIC PROPERTIES OF BIOACTIVE GLASSES
POS 16	El Bahri OULD CHIKH, Hadj Miloud MEDDAH, Abdelatif IMAD, Ali MERDJI; FATIGUE CRACK GROWTH RATE (FCGR) MODELLING BASED ON DAMAGED ZONE AHEAD OF THE CRACK TIP
POS 17	Hadj Miloud MEDDAH, El Bahri OULD CHIKH, Habib KHELLAFI, Ali MERDJI; MECHANICAL BEHAVIOUR ANALYSIS METHOD OF POLYMER MATERIAL CASE OF THE POLYPROPYLENE
POS 18	Said BOUDEBANE, Said GRAINI, Samia LEMBOUB; EFFECT OF ADDITIONS ON THE TRIBOLOGICAL BEHAVIOR OF THE COMPLEX CERAMICS TiC-Al ₂ O ₃ OBTAINED BY SHS AND HOT PRESSING
POS 19	Samia LEMBOUB, Said BOUDEBANE, Ali LAHOUEL; EFFECT OF THE HEATING RATE ON THE STRUCTURE AND TRIBOLOGICAL BEHAVIOR OF TiC-Ni BASED CERMETS OBTAINED BY THERMAL EXPLOSION-PRESSING