



BALKANTRIB'O5

***5th INTERNATIONAL CONFERENCE ON TRIBOLOGY
JUNE.15-18. 2005***

And

9th JUGOSLOVENSKA KONFERENCIJA OTRIBOLOGIJ

Organized by

Balkan Tribological Association

Yugoslav Tribology Society

***University of Kragujevac
Mechanical Engineering Faculty***

***Kragujevac
Serbia and Montenegro***

With the honorable Patronage of:

- **MINISTRY OF SCIENCE AND ENVIRONMENTAL PROTECTION
R.SERBIA**
- **BALKAN TRIBOLOGICAL ASSOCIATION**
- **UNIVERSITY OF KRAGUJEVAC**

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Preface

It is a great privilege and honor for Yugoslav Tribology Society and Mechanical Engineering Faculty of University of Kragujevac, Serbia to organize 5th International Conference on Tribology BALKANTRIB'05

Tribology as a science and technology about friction, wear and lubrication has had very intensive development in the last time because we are entered in the new millennium with numerous new materials, products and technological processes.

Tribological knowledge has become indispensable in products design, in manufacturing processes, control and maintenance of production and transportation equipment.

9th Yugoslav Tribology Conference will be held on Serbian language in parallel sessions in the same time.

*Over 130 authors from 17 countries participate on these conferences
On behalf of Organizing Committee, I wish you all a pleasant,
interesting and memorable stay in Serbia*

*Prof. dr Branko Ivkovic, dipl.ing
President of Yugoslav Tribology Society
Chairman of the Organizing Committee*

Conference Venue

5th International Conference on Tribology BALKANTRIB 05
and

9th Yugoslav Tribology Conference

will be held at Hotel ŠUMARICE, Kragujevac, Serbia

- Single room 25 - 40 Euro
- Double room 50 - 80 Euro

Address: 34000 Kragujevac, Hotel “ Sumarice”, Serbia

Tel. + 381 34 336 178, 336 179, 336 181, 336 182

FAX: + 381 34 333 80

Transportation

Many European airlines company fly to Belgrade airport. Belgrade has good connection by train with many European destination, too.

There is a bus available from Belgrade airport to Belgrade Bus station. The travel time is half our usually.

The distance between Belgrade train and bus station is about two hundred meters only

From Belgrade Bus station to Kragujevac Estimated journey time is 2 Hour (140 km)

The bus fair from Belgrade to Kragujevac is about 6 Euro.

The taxi fair from Kragujevac Bus station to Hotel “ Sumarice” is about 2 Euro (5km distance)

Weather

Some weather data for Kragujevac in June are as follows:

Air temperature (Co): mean 25 usually

Relative humidity: 60%

Sunshine duration (hours): 12 usually

Registration desk

The registration will take place at Conference desk (foyer before Room A, Hotel “Sumarice”) on Wednesday, June 15nd, 2005 from 17.00 to 20.00 hours.

Participants may also register on Thursday, June 16nd 2005 from 8.00 to 9.30 hours at the same location.

The conference Secretariat will be located near Conference desk and will be able to help participants throughout the session time table.

Budges

Each participant will receive a name badge and a bag including the Proceedings, the final program, invitations for the social events and other useful information.

The technical support staff can be recognized from their ***green badges***. The members of International Scientific Committee and Organizing Committee have ***red badges***.

Participation fees and social events

The participant fee of the Conference is 200 Euro and for participants from Balkan Tribological Association countries is 100 Euro (8000 Dinar)

The fee includes:

- The reception cocktail (Wednesday, June 15, 2005 from 20.00 to 22.00 hours)
- The welcome cocktail (Thursday, June 16, 2005 from 10.15 to 11.00 hours)
- The Gala Dinner (Thursday, June 16, 2005 from 20.00 to 24.00 hours)
- The post Conference Tour (Saturday, June 18, 2005 from 8.30 to 17.00 hours)
- 4 coffee breaks according the Final Conference Program
- The Conference Proceedings and other documents

Oral paper presentation

The papers will be presented in parallel sessions in the following rooms:

- Room A: Plenary session and papers of group A (from A1 to A55)
- Room B: papers of Group B (from B1 to 60)
- Room C: Papers of Group C (from C1 to C25)

Papers presentation will be on English language (BALKANTRIB'05) at Room A and Room B. Papers presentation will be on Serbian language (9th Yugoslav tribology conference) at Room C (Friday, June 17, 2005 , (Papers from C1 to C25)

There will be no interpretation.

The audiovisual equipment provided is:

- Data provider with PC (Power Point presentation)
- Screen
- Overhead projector

The duration of an oral presentation is maximum 15 minutes.

Contact information

For any information, please contact with:

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Hotel SUMARICE

PRELIMINARY PROGRAM

BALKANTRIB'05

Thursday, June 16th 2005

09.30 – 13.30 Plenary Session,

Chairman: N.Manolov, K.-D.Bouzakis, N.N.Antonescu, M.Karamis, B.Ivković

09.30 – 10.00 Opening address

**by Ministry of Science and Environmental Protection, R.Serbia
by Rector of University of Kragujevac
by Dean of Mechanical Engineering Faculty
by Mayor of Kragujevac**

10.00 – 10.45 *Welcome cocktail*

10.45 – 13.30 *Lectures*

- 1. A novel method to characterize coatings' cohesion and adhesion properties by means of the inclined impact test**
K.-D. Bouzakis, A. Asimakopoulos, N. Michailidis
- 2. Research regarding functional parameters influence about corrosion rate at crude oil pipes**
N.N.Antonescu
- 3. Mineral oil production and consumption in Turkey**
M. B. KARAMIŞ
- 4. Tribological properties of metallic sliding bearing materials – a review**
A.Rac, A.Vencl
- 5. Internacional School of Tribology**
N.Manolov, M.Kandeva, E.Assenova

13.30 - 15.00 Lunch time

15.30 – 17.00 Session A, Chairman: K.-D.Bouzakis

- A01 Surface integrity and tribological behavior of plasma sprayed alumina coating on steel and aluminium substrates.**
N.M. Vaxevanidis, D.E. Manolakos, G.P. Petropoulos
- A02 Lubrication performance of journal bearings considering effects of transverse and longitudinal roughness**
C.Sinanoglu, F.Canbulut, F.Nair, E.S.Topal
- A03 Coating fracture identification through stress waves measurements during the impact test**
K.D.Bouzakis, G.Mansour, A.Sampris
- A04 Wear of steel against carbon fibre reinforced PPS**
J. Quintelier, P. Samyn, P. De Baets, J. Degrieck
- A05 Comparison of Wear Behaviours of the Hard Chromium Coated and Nitrided AISI 4140 (42CrMo4) Tool Steels**
S.Danişman, S.Savaş
- A06 Effects caused by implementation of cutting tools with coatings**
Z.Stošić, M.Kokić, N.Vesić
- A07 An extension of the wear model for the cutting tool during machining of a Winkler brittle material**
A. TACHE, A. TUDOR, C. TACHE
- A08 Characterization APS-Mo wear resistant coatings**
M. Mrdak, D. Kakaš, Đ. Pović

*17.00 – 17.30 Coffee break**17.30 – 19.00 Session A, Chairman: S.Sekulić*

- A09 Structural nature of wear resistance**
I.I. Garbar
- A10 Aspects Regarding the Roughness of Surfaces Obtained by Lapping**
A. DEACONESCU, T. DEACONESCU
- A11 Tribological properties of ZnAl alloys-based composites**
I.Bobić, M.Babic, A.Rac, R.Ninković
- A12 Tribomodelling of contact die-tubular goods with applications on drilling-extraction**
I.Nae, N.N.Antonescu, M.G.Petrescu
- A13 The Friction Behaviour on The Surface of The Friction Stir Welding of AA 6063 - T6 Tubes**
E. Gerçekcioğlu, T.Eren, K.Yıldızlı, N.Kahraman
- A14 Sliding Wear of AA2024 and AA6061 at Elevated Temperatures**
E. Gerçekcioğlu, K.Yıldızlı
- A15 Optimum turning parameters for desired surface quality in cantilever bar turning of AISI1040 steel using neural networks**
E. S. TOPAL, C. SİNANOĞLU
- A16 Optimal tribological design of soil processing tools**
Natsis, G. Petropoulos

Gala dinner 20.30

15.30 – 17.00 Session B, Chairman: M.Babić

- B01 Some aspect concerning the operating wear and reliability of the rhac type borehole pumps**
A.C. DRUMEANU, N.N. ANTONESCU
- B02 Lubricant compositions based on organic polymers**
A.C. DRUMEANU
- B03 A Study of load-caring capacity of composite base on ultra high molecular weight polyethylene and oil**
A. Yankov, P. Nackova
- B04 A Study of stick-slip effect of ultra high molecular weight polyethylene and its composites**
A. Yankov, P. Nackova, S. Kavaljdjev
- B05 Liquid crystals as an object and means of tribological investigations**
S. Bobrysheva, A. Kolenchenko
- B06 Experimental investigation of the lubrication of opposite running disks**
A.Mihalidis, C. Salpistis, K.panagiotidis, N. Drivakos
- B07 Experimental research regarding the influence of friction on initiation and propagation of subsurface cracks in rolling contact fatigue**
D. Scarpete
- B08 Vehicle as a complex tribo-mechanical system**
M.Kokic

*17.00 – 17.30 Coffee break**17.30 – 19.00 Session B, Chairman: A.Rac*

- B09 Antifrictional properties of self-lubricating composite materials under friction vacuum condition**
A.G.Kostomov, O.I. Fushchich, T.M. cjevichelova, Y.M. Simeonova, G.S. Sotirov
- B10 Grease Squeeze Film for the Spherical Bearings**
A.V. Radulescu
- B11 Temperature distribution in surface layers of rubbing solids**
D.V. Tkachuk, P.N. Bogdanovich, Yu.V. Nikityuk
- B12 The Structure of Lubricating Greases by Electron Microscopy**
I.Radulescu, A.V.Radulescu, F.Vasiliu
- B13 Evaluation of Microhardnes Profile and Metallographic Properties of The Duplex Surface Treatments (Carburising/Boronizing)**
F.Nair, M.B.Karamis,K.Yildizli
- B14 Quality of oils on B&H and SCG market**
S.Simic, M.Petkovic, P.Dugic
- B15 Determination of optimal strategy for preventive maintenance of high pressure pumps vehicles**
B.V.Krstić
- B16 Heat partition coefficient in the fretting contact**
A. TUDOR, M. M. KHONSARI

20.30 Gala dinner

8.30 – 10.00 Session A, Chairman: G.Petropoulos

- A17 **The Effect of Ceramic Coatings on Corrosion Behaviour**
S. Danişman , S.Savaş
- A18 **The mixture of vegetable oils and synthetic oils as lubricants**
C.A.Puscas, G.Bandur, D.Modra, R.Nutiu
- A19 **Application of Block on Disk tribometer in researching materials machinability**
G.Globočki - Lakić, B.Nedić
- A20 **Corrosion in the Boiler Systems and Protection**
Danişman Ş., Savaş S.
- A21 **Deep drawing of square pieces with variable tribological conditions on flange**
S. Aleksandrović, M. Stefanović, Z. Babić
- A22 **Determination and measuring the product of wear between both pairs of steel and isothermally bettered nodular castings with PQ 2000 (particle quantifier)**
D. Jesic
- A23 **Characterization of plasma sprayed Cr₂O₃ and Al₂O₃ wear and corrosion resistant coatings**
M. Mrdak, D. Kakaš, Đ. Pović
- A24 **New method for assessing frictional properties in a mass of consolidated powders**
L.C.Falticeanu, I., T.H.Chang, C.T.Falticeanu

10.00 – 11.30 Session A, Chairman: I.Tudor

- A25 **Researches on the interrelationship between powder flow and its characteristics, for aluminium based powders**
L.C.Falticeanu, I.T.H.Chang, C.T.Falticeanu
- A26 **The influence of the metalworking fluids on drilling process**
R. Rakic
- A27 **Equations for cutting tool performances marking in the function of cutting conditions**
S. St. Sekulić
- A28 **Another approach of surface texture in turning using motif and -Rk- parameters**
G. Petropoulos, A. Marinkovic, N. Vodolazskaya, A. Korlos
- A29 **Optimum parameters for desired surface quality in milling of AISI1040 steel**
E.S TOPAL, C. ŞİNANOĞLU, E. GERÇEKÇİOĞLU, K. YILDIZLI
- A30 **New considerations of evaluating the anisotropy of machined surfaces**
G. PETROPOULOS, P. DAVIM, F. MATA, C. PANDAZARAS
- A31 **Design and production of the new quick-stop device for CNC turning**
G. SUR, H. GÖKKAYA, H. DİLİPAK
- A32 **Effect on PVD coated cemented carbides inserts cutting performance of micro-blasting and lapping of their substrates**
K.-D. Bouzakis, G. Skordaris, N. Michailidis, A. Asimakopoulos, G. Erkens

11.30 – 12.00 Coffee break

8.30 – 10.00 Session B, Chairman: J.G.Javorova

- B17 Test rig for experimental researches and statistical evaluation method concerning linear contact reliability under thermo-mechanical load**
Ovidiu-Florin Tudose-Sandu-Ville, G.Hagiu
- B18 Comparative indicators of tribological characteristics of regenerated gears hard faced with different treatments**
D.Josifović, S.Marković, R.Cirić
- B19 Theoretical and Experimental Aspects Concerning the Analytical Solution of Hydrodynamic Journal Bearing Lubrication**
M.Ionescu
- B20 Tribological and design parameters of lubricated sliding bearings**
A.Rac, A.Vencl
- B21 Mathematical modeling of the dynamic of the mechanism with clearance in the joints considering the friction forces**
C.Oprisan
- B22 Erosive Wear Behaviour of Hardfacing Austenitic Mn Steels**
K.Yıldızlı, F. Nair, M. Eroğlu, M.B. Karamış
- B23 A thermomechanical wear model for the brake shoe-wheel contact**
A.Tudor, C.Popescu
- B24 The temperature distribution in the brake shoe/wheel contact**
C.Popescu, A.Tudor

10.00 – 11.30 Session B, Chairman: E.Assenova

- B25 Analysis of surface parameters of helical gears with small number of pinion teeth**
V.Atanasiu, D.Leohchi
- B26 Some aspects concerning the thermal behaviour of viscous coupling**
A.Pedescu
- B27 Sliding properties of polyimide against various steel and DLC-coated counterfaces**
P.Samyn, J. Quintelier, G.Schoukens, P.De Baets
- B28 Any considerations upon tribology of the contact-free moving seals for liquids**
C.T. Falticeanu, M. Manea
- B29 Rolling contact fatigue resistance on the bearing steel hardened in the ultrasonic field**
N.BANCESCU, C.DULUCHEANU
- B30 Selecting the Optimum Hydraulic Oil to Meet the Viscosity Requirements of Major Pump Manufacturers**
F.Camera, C.Nevu
- B31 Study Concerning Behavior to Rolling-Sliding Friction of Sintered Materials Used in Tooth Wheels Manufacturing**
C.Gheorghies, V.Paunoiu, I.I.Stefanescu
- B32 Effect of fluid inertia on the stability of journal bearings**
J.G.Javorova, V.Alexandrov, K.Stanulov, I.Zaharieva

11.30 – 12.00 Coffee break

12.00 – 13.30 Session A, Chairman: A.Tudor

- A33 Mechanical properties of various epoxy resin types, and FEM simulation in assembly applications**
I. Tsiafis, K.-D. Bouzakis, A. Korlos, A. Asimakopoulos
- A34 New methods to characterize PVD coatings mechanical properties and to improve the cutting performance of coated tools**
K.-D. Bouzakis, N. Michailidis, G. Skordaris, I. Myrissidis, A. Asymakopoulos, G. Mesomeris, G. Erkens
- A35 Some consideration concerning the friction moment of the three-cone bits sealing rings**
I.Zidaru, A.C.Drumeanu, I.Tudor
- A36 FEM simulation of lumbar spine vertebrae during a compression test and trabecular bone strength properties, determined by means of nanoindentations**
K.-D. Bouzakis, S. Mitsi, N. Michailidis, I. Mirissidis, G. Mesomeris, G. Maliaris, A. Korlos, G. Kapetanos, P.Antonarakos, K. Anagnostidis
- A37 Tribological characteristics of superhard Ti(C, N) coating deposited on milling cutters**
I.Tudor, A.A.Popescu, R.Rapeanu, M.balceanu, V.Braic, M.Braic
- A38 Wear behavior of PVD TiAlN, CVD TiN coated and cermet cutting tool**
H. Sert, A. Can, F. Okay
- A39 Modern design of tribometer with various types of relative movement**
N.Marjanović, B. Ivkovic, M. Blagojević
- A40 Ion implantation of kryptonite into the surface layer of tool steels**
D.Kakaš., T.Novakov, B.Škoric, M.Rakita

*13.30 – 15.30 Lunch time**15.30 – 17.00 Session A, Chairman: A.Mihalhidis*

- A41 A new approach for determining the friction low metal forming**
D.Vilotić, M.Plančak, S.Aleksandrov
- A42 Galvanic cathodic protection influence about diminishing wear in corroding medium**
I.Tudor, R.G.Ripeanu
- A43 A possible approach of developing the new product based on experimental research as contribution of developing domestic grease for sealing on natural gas pipeline valves**
Z.Aleksic
- A44 Influence of tribological conditions onto the sheet metal surface roughness at multiphase ironing**
D.Adamovic, M.Stefanovic, V.Lazic, M.Zivkovic
- A45 The abrasive resistance of a few kind self-lubricated nylons measured by Scratch tester**
B.Ivkovic
- A46 Influence of metalworking super-finishing of ball rolling bearing elements on quality**
M.Radojević, I.Petrov
- A47 Review on ballistic tribology**
A.A. Cerit, M.B. Karamış, F.Nai

17.00 – 17.30 Coffee break

12.00 – 13.30 Session B, Chairman: M.Ognjanović

- B33 **Optimum active control of autovibrations generated by stick-slip phenomenon**
B.DRAGAN, G.HAGIU
- B34 **Running safety on the contaminated travelled surfaces**
G.HAGIU, B.DRAGAN
- B35 **On self-organization and selective transfer in tribological systems**
E.Assenova
- B36 **Examination of the influence of the constructive and technological parameters of a tribosystem upon the adhesion component of friction**
G.Mishev, I.Uzunov
- B37 **Possibility of application of biodegradable lubricant greases on Railways in Republic of Srpska**
M.Dugic
- B38 **Tribological aspects for injection processing of thermoplastic composit materials with glass fiber**
L.CAPITANU, J.ONISORU, A.IAROVICI
- B39 **Tribological behavior of a total hip prosthesis during normal walking active cycle**
L.Capitanu, A.Iarovici, J.Onisoru
- B40 **Interference of depressant, lubricity and cetane number improver additives applied in low sulfur diesel fuels**
S.Petrov, A.Ivanov, K.Stanulov, D.Stratiev, S.Ivanov

*13.30 – 15.30 Lunch time**15.30 – 17.00 Session B, Chairman: A.C.Drumeanu*

- B41 **Loss of stability of motor vehicles in a curve, use of the friction force**
S.KARAPETKOV, P.GENOVA, H.UZUNOV, Z.KALITCHIN
- B42 **Progressive Gear Teeth Wear and Failure Probability Modeling**
M.Ognjanovic
- B43 **Simulation of Sliding Bearing under Dynamic Load Conditions**
A.Marinković, B.Rosić, G.Petropoulos
- B44 **Tribological contribution to rolling bearings maintance**
V.Koković, P.Todorović, B.Jeremić
- B45 **Biomechanical joints as tribological system**
M.Opalić, M.Kljajin
- B46 **A method of determining the thickness of thin layers performing tribologically**
F. I. ILIE
- B47 **Temperature influence on bearing scuffing failure**
C.Bujoreanu, S.Cretu
- B48 **Scuffing resistance of hybrid silicon nitride ball bearing**
V.PALEU, S.CRETU

17.00 – 17.30 Coffee break

1730 – 19.00 Session A, Chairman: D.Scarpete

- A48 **Tribological aspects of machine tools electromotor propulsion selection**
B.Tadić, M.Babić, F.Zivić
- A49 **Colorimetric characteristics of the light equipment in the automobile industry**
N.Vesić
- A50 **The Contact Approach in Tribology**
M.Kandeva
- A51 **Selection of technology for reparative weld surfacing of working components in construction machinery exposed to intensive abrasive wearing**
M.Jovanovic, V.Lazic, M.Mutavdzic, N.Ratkovic, D.Adamovic
- A52 **An abrasive wear model for UHMWPE in presence of shaped hard particles in convergent interstice**
T.Laurian, A.Tudor
- A53 **The contribution to application of the mathematical modeling method for prognosis of the friction coefficient behaviour**
M.Djurdjanović, A.Vulić, I.Vuluć
- A54 **The possibility of statics friction coefficient calculation**
D.Stamenkovic, M.Djurdjanovic
- A55 **New experimental data measured on a two disk rig**
P.Lucian Seiciu, D.Pavelescu
- A56 **Plasma Nitriding of Powder Valve Seat Inserts for Diesel Engines**
R.Gligorijević, J.Jevtić, Đ.Borak
- A57 **Dinamic simulation on the cutting process**
B.Nedić, N.Vesić, M.Cetković
- A58 **An abrasive wear model for UNMWPE in the precense of avoid shaped hard particles in convergent interstice**
T.Laurian
- A59 **The transition in the fretting phenomenon**
S.Ghimisi

17.30 – 19.30 Session A, Chairman: A.V.Radulescu

- B49 Modern approach to rolling service life prediction**
V.Koković, P.Todorović, B.Jeremić
- B50 New lubricating oils for diesel engine with silver bearings**
I.Petre, A. Constantinescu, L.Bogatu
- B51 Tribological regulators and tribological correct design**
S.Tanasijevic
- B52 The Structure of Lubricating Greases by Electron Microscopy**
I.Radulescu, A.V.Radulescu, F.Vasilu
- B53 Temperature distribution in the ring of liquid face seals-evaluation of simplified analytical models using 3D FEM analysis**
T.CICONE, A.APOSTOLESU
- B54 Establish the reliability of piston-cylinder couple of downhole pumps**
R.G.Ripeanu
- B55 Oil monitoring and proactive maintenance**
M.Babic
- B56 Algoritam and program system for critical stability determination of HD journal bearings**
J.G.Javorova
- B57 Ecological lubricating greases**
O.Florea, M.Luca, C.Stelian
- B58 Tribological behaviour of MMCs and their application in automotive industry**
A.Vencl, A.Rac, I.Bobic
- B59 The mixture of vegetable oils and syntetic oils as lubricants**
C.A.Puscas, G.Bandur, D.Modra, R.Nutiu
- B60 Some aspects concerning the thermal behaviour of a viscous coupling**
A.Predescu

8.30 – 10.00 Session C, Chairman: M.Plančak

- C01 Neki rezultati ispitivanja obradivosti teško obradivih legiranih čelika**
G.Globočki –Lakić, B.Nedić, P.Dakić
- C02 Uticaj kontaktnog trenja na proces dvostrukog suprotnosmernog istiskivanja**
Đ.Čupković, M.Plančak
- C03 Jedna metodologija za određivanje parametara Weibull-ove raspodele pomoću medijalnih rangova za bilo koju veličinu uzorka**
S.St.Sekulić
- C04 Uvod u tribološka istraživanja pri oblikovanju mikro-delova dubokim izvlačenjem**
M. Samardžić, M. Stefanović, S. Aleksandrović, T. Vujinović,
- C05 Adaptivno upravljanje procesom brušenja sa aspekta triboloških pojava**
M.Popović, R.Slavković, Z.Jugović
- C06 Pločasti noževi i tribološke karakteristike u procesu pripreme mase za proizvodnju papira**
R.Slavković, Z.Jugović, S.Dragičević, I.Milićević
- C07 Metode i sredstva automatizacije procesa dijagnostike motornih vozila**
B.Krstić
- C08 Uticaji nemonotonosti deformisanja i promenljivih triboloških uslova na obodu procesa dubokog izvlačenja**
S.Aleksandrović, M.Stefanović, T.Vujinović

10.00 – 11.30 Session C, Chairman: M.Stefanović

- C09 Utvrđivanje regresionih funkcija habanja alata i temperature rezanja metodom srednji vrednosti**
B.Pejovic, S.Cvetkovic
- C10 Analiza tribomehaničkih sistema u mehanizmu slobodnog hoda impulsnih varijatora**
D.Jovanović
- C11 Uticaj sile držanja i stanja površina na duboko izvlačenje “tailored Blanks”**
Ž. Babić, M. Stefanović, S.Aleksandrović
- C12 Neke karakteristike mehanizma trenja i trošenja vodećeg prstena projektila**
Z.Ristić, S.Ilić, A.Karić
- C13 Ispitivanja mogućnosti i povećanja vijeka trajanja lemeša**
S.Sebastijanović, Đ.Banaj
- C14 Primena fuzzy logike pri održavanju motornih vozila**
B.Krstić
- C15 Istraživanje tipova promene koeficijenta trenja na putu klizanja pri dubokom izvlačenju sa stanjenjem debljine zida**
D.Adamović, M.Stefanović, V.Lazić, M.Zivković
- C16 Uticaj različitih vrsta stenskih minerala na izbor materijala radnih delova građevinske mehanizacije**
M.Mutavdžić, V.Lazić, M.Jovanović, D.Adamovic, N.Ratković

11.30 – 12.00 Coffee break

12.00 – 13.30 Session C, Chairman: M.Đurđanović

- C17 Tribološka ispitivanja navara i osnovnih materijala kovačkih alata pri podmazivanju različitim vrstama maziva**
V.Lazić, M.Jovanović, B.Nedić, D.Adamović, N.Ratković
- C18 Istraživanje tipova promene koeficijenta trenja na putu klizanja pri dubokom izvlačenju sa stanjenjem debljine zida**
D.Adamović, M.Stefanović, V.Lazić, M.Zivković
- C19 Metodologija ispitivanja frikcionih karakteristika disk kočnica železničkih vozila**
M.Djurdjanović, A.Vulić, I.Vulić
- C20 Primer umeravanja labaratorijske elektroničke vage**
D.Ješić
- C21 Uticaj SHP za brušenje kuglica kotrljajućih ležajeva na kvalitet**
M.Radojević
- C22 Uticaj postupka regeneracije zaptivnih elemenata mašine za izradu gumenih mešavina na troškove proizvodnje**
S.Mitrović
- C23 Tribološke karakteristike samopodmazujućih livenih najlona**
M.Popović
- C24 Reakciono-kinetičke promene motornog ulja**
R.Gligorijević, J.Jevtić, Đ.Borak, V.Knežević
- C25 Uticaj eksploatacijskih uslova korišćenja svetlosne opreme na njihove kalometrijske karakteristike**
N.Vesić, B.Nedić

