

Federal State Budgetary Institution of Science Blagonravov Mechanical Engineering Research Institute of the Russian Academy of Science

Interdepartmental Scientific Council on Tribology

Association of Engineers-Tribologists of Russia

with the information support of scientific journals

"Friction and wear", "Journal of machinery manufacture and reliability", "Assembling in Mechanical Engineering and Instrument-Making" and "Lubricants"

XII International Scientific Conference

"TRIBOLOGY FOR MECHANICAL ENGINEERING"

dedicated to the 80th anniversary of IMASH RAS

SCIENTIFIC PROGRAM

November 19-21, 2018

Conference Chairman

• Ganiev R.F., academician of RAS, Scientific Director of IMASH RAS, Russia

Program Committee

- Goryacheva I.G., Chairman of Program Committee, academician of RAS, Chairman of the interdepartmental scientific Tribology Council, IPMech RAS, Moscow, Russia
- Albagachiev A.Yu., Deputy Chairman, D.Sc. IMASH RAS, Moscow, Russia
- Bolotov A.N., D.Sc., TSTU, Tver, Russia
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- Buyanovsky I. A., D.Sc., IMASH RAS, Moscow, Russia
- Vershinskiy A.V., D.Sc., Bauman MSTU, Moscow, Russia
- Grib V.V., D.Sc., MADI, Moscow, Russia
- Zakharov S.M., D.Sc., JSC VNIIZhT, Moscow, Russia
- Kirichek A.V., D.Sc., BSTU, Bryansk, Russia
- Kolesnikov V.I., academician of RAS, RSTU, Rostov-on-Don, Russia
- Krasnov A.P., D.Sc., INEOS RAS, Moscow, Russia
- Lashkhi V.L., D.Sc., CC "NAMI-KhIM" Moscow, Russia
- Levchenko V.A., Ph.D., Lomonosov MSU, Moscow, Russia
- *Luzhnov Yu.M.*, D.Sc., President of the Association of Russian Engineers-Tribologists, Moscow, Russia
- Lyubinin I.A., RN-Lubricants LLC, Moscow, Russia
- Makarenko E.D., Innovative mechanical engineering publishers, Moscow, Russia
- Myshkin N.T., academician of NAS of Belarus, MPRI NAS B, Gomel, Belarus
- Parenago O.P., D.Sc., TIPS RAS, Moscow, Russia
- Popov V.L., D.Sc., TU Berlin, Berlin, Germany
- Psakhie S.G., corresponding member of RAS, ISPMS SB RAS, Tomsk, Russia
- Savin L.A., D.Sc., OSU, Orel, Russia
- Senatorsky J., D.Sc., IMP, Warsaw, Poland
- Khrushchev M.M., Ph.D., IMASH RAS, Moscow, Russia
- Yudkin V. F., Ph.D., IMASH RAS, Moscow, Russia

Organising Committee

- Glazunov V. A., Chairman of Organising Committee, D.Sc., Director of IMASH RAS
- Buyanovsky I. A., Deputy Chairman of Organising Committee, D.Sc.,
- Zelenskaya M. N., Scientific Secretary of the Conference
- *Gadolina I.V.*, Ph.D.
- Glikman I.M.
- Kireev I.D.
- Nazarov V.V.
- Prozhega M.V., Ph.D.
- Saberov H.F. Ph.D.
- Samusenko V.D., Ph.D.
- Silova T.M.
- Smirnov N.N.
- Khasyanova D.U., Ph.D.
- Tsukanov I. Yu., Ph.D.

REGISTRATION

Registration of the Conference participants will be held on November 19, 2018 from 8:30 to 10:00 a.m. in Moscow at the address: IMASH RAS, Bardina st., 4, building 2, floor 2, lobby of the Conference Hall.

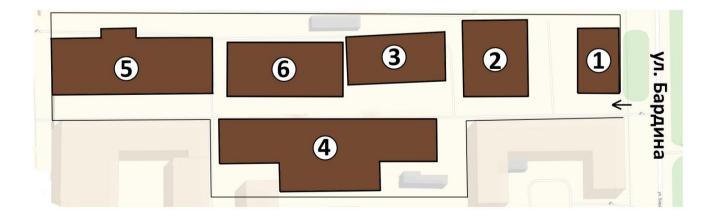
TIME LIMIT OF PRESENTATIONS

Duration of presentations: plenary - 20 minutes, session - 10 minutes. Illustrative material for plenary and session presentations should be presented in pdf or pptx format on a flash disk. At the end of each meeting, a discussion of the submitted presentations is scheduled.

The following technical sessions will work at the Conference:

No.	Title	Working language	Building, floor, room no.
1	The fundamental problems of tribology	English	Building 5, floor 2, room 2-22
2	Lubrication and lubricants	Russian	Building 4, floor 3, room 320
3	Tribological materials science	Russian	Building 4, floor 1, room 109
4	Friction units	Russian	Building 4, floor 1, room 112
5	Nanotribology	Russian	Building 2, floor 2, conference room
6	Metal working	Russian	Building 4, floor 3, room 320

PLAN OF THE IMASH RAS



SCHEDULE OF THE CONFERENCE

	11/19/2018					
Registration of p	articipant	s				From 08:30 to 10:00
Conference open	ing					10:00
Plenary session	Plenary session			From 10:30 to 17:30		
			11/20/201	8		
			Technical sessi	ons		
_	Fundamental problems of tribology Lubricants Tribological materials science Friction units				From 09:00 to 18:00	
			11/21/201	8		
			Technical sessi	ons		
Fundamental problems of tribology	problems of and materials Friction units l problems					From 09:00 to 12:30
Plenary session			From 13:30 to 15:30			
Round Table Meeting			From 15:30 to 16:30			
Final session				From 16:30 to 17:00		
Conference closi	ng					17:00

PLENARY SESSION

Language - Russian, English

	19 November $10^{30} - 13^{00}$ Conference hall			
	Moderators: Glazunov V.A., Goryacheva I.G.			
	S	Scientific secretary: Tsukanov I	I.Yu.	
1.	TRIBOLOGICAL QUESTIONS IN MECHANISMS OF PARALLEL STRUCTURES OF			
	ROBOTICS SYSTEMS			
	Glazunov V.A.			
		Research Institute of the Russia	n Russia	
	Academy of Sciences (IM	•		
2.			ENGINEERING RESEARCH	
	INSTITUTE OF THE RA	S		
	Buyanovsky I.A.			
		Research Institute of the Russia	n Russia	
	Academy of Sciences (IM	· · · · · · · · · · · · · · · · · · ·		
3.	PROBLEMS IN ANALYS	IS OF FRICTION		
	MECHANISMS			
	Myshkin N.K.,	1 ' ' CNIAG CE	D 1	
	V.A. Belyi metal-polymer research institute of NAS of Belarus Belarus			
	Gener	al photo of the conference pa Coffee break 11 ²⁰ -11 ³⁵	rticipants	
1	MODELING AND EVDER	RIMENTAL STUDY OF ELAS	TOMED CEDICTION	
4.	Goryacheva I.G.	RIMENTAL STUDY OF ELAS	TOMERS FRICTION	
	Ishlinsky Institute for Problems in Mechanics RAS Russia			
5.	<u> </u>		SIVE WEAR: HISTORY AND	
].		NTS IN SIMULATION OF A		
	Popov V.L.	TVIS IN SIMICE/THON OF A	DIESIVE WEAK	
	Technische Universität Be	erlin	Germany	
6.	ACTUAL TRIBOLOGY		Communy	
"	RAILWAY TRANSOPR			
	Zakharov S.M.			
	JSC VNIIZhT (Railway R	esearch Institute)	Russia	
7.				
	OF MILD CARBON STE	EL		
	Güleşen Mustafa			
	Dumlupinar University		Turkey	
		Discussion		

	19 November	$14^{00} - 17^{30}$	Conference	hall
	Moderators: Myshkin N.K., Buyanovsky I. A.			
	So	cientific secretary: Samusenko V.I	О.	
8.		VES REFRACTORY METAL DIC	CHALCOGENIDES O	N THE
		CTERISTICS OF GREASES.		
	Lyubinin I.A.			ъ.
	RN-Lubricants LLC	LEM OF DECOME OF DEAM		Russia
9.	LINING INTO DRUM SU	LEM OF PRESSING OF BRAKE	E SHOE WITH FRIC	TION
	Mirsalimov V.M.,	KFACE		
	Azerbaijan Technical Univ	arcity		Azerbaijan
10.		Y AND ANTIFRICTION PROPE	RTIES OF HEAT-	Azerbaijan
10.	RESISTANT THERMOPI		KILS OF TEAT-	
	Krasnov A.P.	2.10.10		
		of Organoelement Compounds of	RAS	Russia
11.	·	BOUNDARY FRICTION OF V		
	INTERFACES			
	Pondichery Kartik Shanmu	ghan		
	Anton Paar GmbH			Austria
		Coffee break 15 ⁴⁰ -15 ⁵⁵		
	INFORMATION ON THE	PUBLICATION OF THE EXPAN	NDED ARTICLES IN	N THE
SEPARATE ISSUE OF THE LUBRICANTS JOURNAL				
	Pr	ozhega M.V, Organizing Committ	ee	
12.	TRIBOLOGY AND MAT	ERIALS FOR SPACE ENGINER	Y	
	Bronovets M.A.			
	Ishlinsky Institute for Prob			Russia
13.		ION OF GF/EP COATING FILLI	ED WITH H-BN	
	NANOPARTICLES			
	Bagci Mehmet			m 1
1.1	Konya Technical Universit		I EGIH A DA MODEL	Turkey
14.		BUILDING TRIBOSYSTEM MO	LECULAR MODEL	S WITH
	LUBRICATION LAYER			
	Godlevskiy V.A.			Russia
15.	Ivanovo State University	BLEMS OF TRIBOLOGY IN TH	JE CONTEVT OF T	
13.	CARBON CYCLE	BLEMS OF TRIBOLOGI IN IF	1E CONTEXT OF T	ПE
	Evdokimov A.Yu.			
	Moscow State Linguistic U	niversity		Russia
16.		THE HYDRODYNAMIC LUBR	ICATION THEORY	
10.	Savin L.A.			
	Orel State University name	d after I.S. Turgenev		Russia
	<u> </u>	Discussion		

FUNDAMENTAL PROBLEMS OF TRIBOLOGY

Language – English

	20 November 9^{00} - 13^{00} Building 5, Floor 2, room 2-22				
	Moderators: Albagachiev A.Yu., Popov V.L.				
	Scientific secretary: Kulakov O.I.				
1.	. STUDY AND SIMULATION OF SURFACE ROLLING				
	CONTACT FATIGUE RAIL DAMAGES				
	Zakharov S.M.				
	JSC VNIIZhT (Railway R	esearch Institute)			
2.	WEAR-RESISTANCE ST	UDY OF THE CARBUI	L TECHNOLOGY MANUFACTURED		
	ALLOYED HYBRID POV	WDER MATERIALS			
	Prozhega M.V.				
		esearch Institute of the R	tussian Academy of Sciences (IMASH		
	RAS)				
3.			THINNERS AND MODIFIERS ON		
		E OF SAND AND CHII	LLED CASTINGS OF A319		
	ALUMINUM ALLOYS				
	Colak Murat Bayburt University				
4.	INFLUENCE OF SURFA	CES ADHESION ON CO)NT A CT		
٦.	CHARACTERISTICS DU		SNIACI		
	INDENTATION OF VISO		ITH UNLOADING		
	Lyubicheva A.N.				
	Ishlinsky Institute for Prob	olems in Mechanics RAS			
5.	·		ATINGS BOND AND TOP COAT		
	HIGH TEMPERATURE S	SOLID PARTICLE ERO	SION RESISTANCE		
	Demirci Musa				
	KTO Karatay University				
6.	MODELLING OF FRICT		WAVY SURFACE ON A		
	VISCOELASTIC FOUND	DATION			
	Makhovskaya Yu.Yu.	Jama in Machanias DAC			
	Ishlinsky Institute for Prob	Coffee break 10 ⁴⁵ -:	1 1 00		
7.	THE INVESTIGATION O				
/ .	COMPOSITES	OF WEAK DELIA VIOK	or AL 1013/GRAI III1E		
	Güleşen Mustafa				
	Dumlupinar University				
8.		ATION OF SYSTEMS	WITH FRICTIONAL CONTACTS		
	Willert E.				
	Technische Universität Be	rlin			
9.	ANALYSIS OF FRICTIONAL HEATING OF COATED BODIES				
	Torskaya E.V.				
	Ishlinsky Institute for Problems in Mechanics RAS				
10.	TRIBOLOGY OF CARBON BASED POLYMERIC NANOCOMPOSITES				
	Upadhyay Ram Krishna				
1.1	Indian institute of technology MATHEMATICAL MODEL OF THE PROCESS OF THE ENERGY DISSIPATION				
11.			OF THE ENERGY DISSIPATION		
	UNDER QUASYELASTI Savenko V.I.	CKULLINU			
	A.N. Frumkin Institute of	Physical Chemistry and F	Electrochemistry of RAS		
<u> </u>	13.13. Frankin insutute Of	i ilysicai Chemisu y anu I	Accudentinary of ICAS		

THE INVESTIGATION OF TRIBOLOGICAL PROPERTIES OF GRAPHENE OXIDE FILLED PA6 POLYMER COMPOSITES
 Yetgin Salih Hakan
 Dumlupinar University
 KINETICS OF WEARING MODIFIED PRINCIPAL COATINGS BASED ON COPPER Sachek B.Ya.
 Ishlinsky Institute for Problems in Mechanics RAS

	20 November 14 ⁰⁰ -18 ⁰⁰ Building 5, floor 2, room 2-22				
	Moderators: Torskaya E.V., Zakharov S.M.				
	Scientific secretary: Tsukanov I.Yu.				
14.	14. HIGH TRIBOLOGICAL PERFORMANCE OF SPHERICAL PARTICLES OF				
	TUNGSTEN DISULFIDE WATER BASED DISPERSION.MWF APPLICATION				
	Diloyan G.				
	Nanotech Industrial Solutions				
15.	MODELING OF SLIDING	G CONTACT OF INDEN	TER AND VISCO-ELASTIC		
	COATING				
	Torskaya E.V.				
	Ishlinsky Institute for Prob	olems in Mechanics RAS			
16.	THE NUMERICAL STUI	OY OF COUPLING BET	WEEN ECCENTRICITY AND		
	TILTING OF THE PART	IAL ARC ANNULAR-TI	HRUST AEROSTATIC POROUS		
	JOURNAL BEARING				
	Khan P.				
	Melentiev Energy Systems				
17.			OPERTIES OF MULTI WALLED		
	CARBON NANOTUBE (MWCNT) FILLED PP PC	OLYMER COMPOSITES		
	Yetgin Salih Hakan				
	Dumlupinar University				
18.			PROCESSING ON THE RUNNING-		
	IN PROCESS OF ANTIFI	RICTION ALLOYS			
	Tsukanov I.Yu.	1 ' 14 1 ' DAG			
10	Ishlinsky Institute for Prob		ICAMERICO ON ALEMENDE		
19.			NG METHOD ON ALTITUDE		
			RISTICS OF A357 ALUMINUM		
	ALLOY WITH TAGUCH Yılmaz Hamid	II ME I HOD			
	Bayburt University				
	Daybuit University	Coffee break 15 ⁴⁰ -1	⊵ 55		
20.	WEAD DECICTANCE OF		NGS OBTAINED ON 2024		
20.	ALUMINIUM ALLOY B				
	Vorozhtsova V.V.	I I LASMA ELECTROL	THE OXIDATION		
	National University of Science and Technology MISIS				
21.			STIC CONTACT BETWEEN A		
	LAYERED CYLINDRIC				
	Solanki Mitulkumar Thak				
	Sardar Vallabhbhai National Institute of Technology				
22.	MODEL WEAR OF THE				
	Izmerov M.A.				
	Bryansk State Technical U	Iniversity			

23.	SIMULATION BY MOLECULAR DYNAMICS OF THE PROCESSES OF
	EVOLUTION OF CRACKS AND PORES IN THE SURFACE AREA OF THE COATED
	STEEL IN SLIDING LUBRICATION WITH THE RESOURCE
	Malenko P.I.
	Tula State University
24.	INFLUENCE OF TURBULENT REGIME AND NON-NEWTONIAN LUBRICATION
	BEHAVIOR ON THE PERFORMANCE OF FINITE HYDRODYNAMIC JOURNAL
	BEARING
	Soni Sandeep
	Sardar Vallabhbhai National Institute of Technology
25.	MODELING AND FORECASTING OF THE PROCESS OF WEAR OF THE CUTTER
	TEETH ON THE THERMOKINETIC APPROACH BASIS
	Evdokimov D.V.
	Samara University
26.	REGULARITY OF ENTROPY'S CHANGE OF INFORMING SECONDARY ACTION
	TRIBOTECHNICAL SYSTEM
	Ivashyshin G. S.
	Pskov State University
	Discussion

LUBRICATION AND LUBRICANTS

20 November		9^{00} – 13^{00}	Building 4, floor 3, room 320		
	Moderators: Ermakov C.F., Parenago O.P.				
	Scientific secretary: Smirnov N.N.				
1.	QUALITY CONTROL O	F FUELS AND LUBRICA	NTS IN RUSSIA		
	Abramov A.N.				
	Technopark «SFCC UAI»				
2.	TRIBOLICAL INDICATO	ORS OF COATINGS			
	Albagachiev A.Yu.				
	Mechanical Engineering R	esearch Institute of the Rus	ssian Academy of Sciences (IMASH		
	RAS)				
3.	ARCTIC MOTOR OILS,	OBTAINED BY USING T	HE FRACTION OF THE LOW		
	POUR-POINT BASE				
	Antonov S.A.				
	Joint Research and Development Center RN-TsIR, Ltd.				
4.	REOMODIFICATORS O	F LUBRICANTS FOR TH	E HEAVY MODES OF		
	BOUNDARY FRICTION				
	Berdichevsky E.G.				
	Yaroslav-the-Wise Novgo	rod State University			
5.	INFLUENCE OF THE COMPOSITION OF THE COTS				
	CONTAINING PHTHALOCYANINE DERIVATIVES, ON THE PROCESS OF				
	FRACTIONING				
	Berezina E.V.				
	Ivanovo State University				

_	LIGING THE DENICIDLES OF INDEVENSIBLE PROCESSES THERMODYNAMICS
6.	USING THE PRINCIPLES OF IRREVERSIBLE PROCESSES THERMODYNAMICS
	OF FOR THE BASIC PRINCIPLES FORMATION OF THE LUBRICATING
	PROPERTIES PREDICTION
	Boikov D.V.
7	PJSC "Autodiesel"
7.	FEATURES OF THE BEHAVIOR OF FUNCTIONAL ADDITIVES AT THE
	INTERFACE "METAL-OIL»
	Boikov D.V. PJSC "Autodiesel"
0	
8.	INVESTIGATION OF RHEOLOGICAL PROPERTIES OF GREASES CONTAINING IN
	ITS COMPOSITION ANTI-FRICTION ADDITIVES
	Glyadyaev D. Yu.
	25th State Research Institute of Chemmotology the Russian Federation Ministry of Defense
9.	RESEARCH OF ANTIWEAR AND ANTIFRICTION PROPERTIES OF FUELS
	CONTAINING COMMERCIAL AND EXPERIMENTAL ANTIWEAR ADDITIVES
	Goryunova A.K.
	25th State Research Institute of Chemmotology the Russian Federation Ministry of Defense
10	Coffee break 10 ⁴⁵ –11 ⁰⁰
10.	ANTIFRICTION GREASES
	Grishin N.N.
4.4	25th State Research Institute of Chemmotology the Russian Federation Ministry of Defense
11.	INVESTIGATION OF FRICTION REGIMES OF ELASTIC ROUGH SURFACES FROM
	THE POSITION OF ELASTOHYDRODYNAMIC THEORY OF LUBRICANT
	Danilov V.D.,
	Mechanical Engineering Research Institute of the Russian Academy of Sciences (IMASH
10	RAS)
12.	FEATURES OF MODELLING BY THE HYDRODYNAMIC MODE ON AMSLER
	TYPE FRICTION MACHINE
	Darovskoy G.V.,
12	Rostov State Transport University INPUT IN OIL ELECTRIC CHARGES AND TRIBOACTIVE
13.	
	Dunaev A.V. Federal Scientific Agreen singering Center VIII
1.4	Federal Scientific Agroengineering Center VIM
14.	DIELECTRIC PROPERTIES OF PLASTIC LITHIUM LUBRICANTS WITH LIQUID CRYSTALLINE ADDITIVES
	Elnikova L.V.,
	Institute for Theoretical and Experimental Physics named by A.I. Alikhanov of National
	Research Centre "Kurchatov Institute"
15.	THE EFFECT OF LUBRICATING COMPOSITIONS ON THE WEAR
15.	Emaev I.I.
	UFA STATE AVIATION TECHNICAL UNIVERSITY (USATU)
16.	INFLUENCE OF STRUCTURE OF DISPERSE PHASE OF GREASES ON
10.	THEIR MECHANICAL STABILITY
	Zhornik V.I.
	The Joint Institute of Mechanical Engineering of the NAS of Belarus
17.	RESULTS OF THE DEVELOPMENT AND APPLICATION OF CONSERVATION
1/.	AND POLYFUNCTIONAL OILS «ROSOJL»
	AND POLYFUNCTIONAL OILS «ROSOJL» Kazakov A.M.
	Technopark «SFCC UAI»

18. МЕТОД ИССЛЕДОВАНИЯ РЕОЛОГИЧЕСКОЙ СИСТЕМЫ "ДЕФОРМИРУЕМЫЙ МЕТАЛЛ-СМАЗОЧНАЯ СРЕДА"

Каnaev A.A.

A.N. Frumkin Institute of Physical chemistry and Electrochemistry RAS

	20 November 14 ⁰⁰ –18 ⁰⁰ Building 4, floor 3, room 320			
	Moderators: Lashkhi V.L, Lyubibin I.A.			
	Scientific secretary: Smirnov N.N.			
19.	EVALUATION OF CORROSIVE ACTIVITY AND OXIDATIVE STABILITY OF			
	VEGETABLE OILS			
	Kavaliova I.N.			
	V.A. Belyi Metal-Polymer Research Institute of NAS of Belarus			
20.		ΓHE IMPACT OF LUBRIC	CANT QUALITY ON A WORM-	
	GEAR LIFE			
	Kuleshova E.M.			
	Bauman Moscow State Te	-		
21.	UREATE GREASES SPE	CIAL PURPOSE		
	Lyadov A.S.			
	1	Petrochemical Synthesis, R		
22.			IES OF TIN-Pb SYSTEM SOLID	
		S WITH VARIOUS MORE	HOLOGY	
	Lyakhovetskiy M.A.	(N-4; 1 D 1 II;		
22		(National Research Univer	• /	
23.			F COMPOSITIONS OF ASHLESS ES IN THE ENVIRONMENT OF	
	HYDROCARBONIC OIL		ES IN THE ENVIRONMENT OF	
	Matveev P.V.	•		
		ite of Chemmotology the Ri	ussian Federation Ministry of Defense	
24.			NTS WITH ADDITIVES P-N-	
2				
	PROPYLOXYBENZOIC ACID — P-N-PROPYLOXY-P'-CYANOBIPHENYL IN CASE OF BOUNDARY FRICTION			
	Novikov V.V.			
	Ivanovo State University			
25.	· ·	ID TRIBOLOGICAL CHA	RACTERISTICS OF NICKEL	
	OXIDE AS A METALLO	PLAKING ADDITIVE TO	LUBRICANTS	
	Ostapenko D.A.			
	Don State Technical Unive	ersity		
26.	JET FUEL LUBRICITY F	EVALUATION		
	Oreshenkov A.V.			
		•	ussian Federation Ministry of Defense	
27.		E INFLUENCE OF ASTRA		
			CY AND QUALITY INDICES OF	
		ΓΙΟΝ PAIR OF MACHINE	ES	
	Petrov V.M.			
	Saint-Petersburg State University of Architecture and Civil Engineering			
	Coffee break 15 ⁴⁵ –16 ⁰⁰			

28.	COMPARISON OF TRIBOLOGICAL CHARACTERISTICS OF MAO-COATINGS			
	FORMED ON ALLOYS D16 AND V95 DURING THE TESTS IN ENVIRONMENTAL			
	LUBRICANTS			
	Poches N.S.			
	Gubkin Russian State University Of Oil and Gas			
29.	ANTIFRICTIONAL PROPERTIES OF THE DLC COATING WITH AITIN			
	INTERMEDIATE LAYER IN MODEL LUBRICANTS			
	Samusenko V.D.			
	Mechanical Engineering Research Institute of the Russian Academy of Sciences (IMASH			
	RAS)			
30.	APPROACHES TO DEVELOPMENT OF NEW CONSTRUCTIVE LUBRICANT			
	MATERIALS AND ANTIFRICTION COATINGS FOR MOVABLE AIRCRAFTS			
	Titov V.V.			
	Public Company "Sukhoi"			
31.	RELAXATION OF DESTRUCTION			
	OF LUBRICATING LAYER ON SURFACES RUBBING BODIES DURING SLIDING			
	FRICTION			
	Feizova V.A.			
	Rostov State Transport University			
32.	DIAGRAMS OF CONDITION FRICTION MOMENT - COMPOSITION FOR SOME			
	LIQUID LUBRICATION SYSTEMS WITH FRICTION WITH SLIPPER			
	Feizova V.A.			
	Directorate for the repair of rolling stock of JSC Russian Railways is the Russian			
	Federation			
33.	THE RESULTS OF EXPERIENCE AND THECOMPARATIVE EVALUATION OF THE			
	EFFICIENCY OF LUBRICANT MATERIAL "ROSOIL-MGP" IN THE TECHNOLOGY			
	OF HOT STEEL MANUFACTURE			
	Kharchenko M.V.			
24	Nosov Magnitogorsk State Technical University ASSESSMENT OF TRIBOTECHNICAL INDICATORS OF INTERFACES TO SOLID			
34.	LUBRICATING COVERINGS OF VARIOUS STRUCTURES			
	Khopin P.N. Moscow Aviation Institute (National Research University)			
35.	TECHNOLOGICAL WATER-SOLUBLE LUBRICANTS CONTAINING A FRACTAL			
55.	STRUCTURE, WITH THE ADDITION OF NANOCLUSTERS OF NON-FERROUS			
	METALS IN THE PROCESSES OF DRAWING SHEET STEELS			
	Shulga G.I.			
	Platov South-Russian State Polytechnic University (NPI)			
36.	INVESTIGATION OF GEOMODIFICATORS FRICTION MECHANISMS ON THE			
	BASIS OF SERPENTINITIES			
	Shcherbakov Yu.I.			
	Mechanical Engineering Research Institute of the Russian Academy of Sciences (IMASH			
	RAS)			
	Discussion			

TRIBOLOGICAL MATERIALS SCIENCE

	20 November 9 ⁰⁰ –13 ⁰⁰ Building 4, floor 1, room 109				
	Moderators: Kuksenova L.I., Shuster L.Sh,				
	Scientific secretary: Misnik P.S.				
1.	METHODS FOR STRUCTURE STATE APPRECIATION SURFACE LAYERS AFTER NITRIDING OF STEELS FOR SLIDING FRICTION COUPLS Alekseeva V.S.				
	Mechanical Engineering R RAS)		ssian Academy of Sciences (IMASH		
2.	STRUCTURE CHANGES OF SURFACE LAYER OF STEEL COUNTERBODY IN DRY SLIDING ELECTRIC CONTACT WITH HIGH CONTACT CURRENT DENSITY Aleutdinova M.I. Institute of Strength Physics and Materials Science Siberian Branch of Russian Academy of				
	Sciences	os una materiais serence si	or reasonan reasoning of		
3.	TRIBOLOGICAL PROPE	ERTIES OF ZIRCONIA CE	RAMICS		
	Alisin V.V. Mechanical Engineering R RAS)	esearch Institute of the Rus	ssian Academy of Sciences (IMASH		
4.	Arkhipov V. E.		BY GASDYNAMIC SPUTTERING ssian Academy of Sciences (IMASH		
5.	/	KEL DEPOSITED FROM	CHLORIDE-CITRATE		
]	ELECTROLYTE	REE DEI OSTIED TROM			
	Balakai V.I.				
		e Polytechnic University (N	,		
6.		WEAR RESISTANCE OF KEL-COBALT FROM ELE	COMPOSITE COATINGS BASED ECTROLYSIS		
	Balakai V.I.	- D-1-41(N	IDI)		
7.	Platov South-Russian State Polytechnic University (NPI)				
/.	EVALUATION OF WEAR RESISTANCE OF COATINGS DEPOSITED WITH THE LASER BEAM				
	Biryukov V.P.				
	Mechanical Engineering R	esearch Institute of the Rus	ssian Academy of Sciences (IMASH		
0	RAS)		O OLADDING		
8.	Biryukov V.P.	TE COATINGS BY LASEF	RCLADDING		
	1	esearch Institute of the Rus	ssian Academy of Sciences (IMASH		
	RAS)	research institute of the Rus	ssian readenly of Sciences (IVII ISTI		
9.	SYNTHESIS AND ABRASIVE PROPERTIES DIAMOND-CONTAINING MATERIAL WITH CERAMIC MATRIX				
	Bolotov A.N				
	Tver state technical univer	rsity			
10.			BEHAVIOR OF TRIBOCONTACT		
	OF THE BUSHING-CON	E SYSTEM			
	Vavilin S.A. Samara State Technical University (Samara Polytech)				
	Samara State Technical Ul	Coffee break 10 ⁴⁵ –11	00		
<u> </u>	Confee break 10 -11				

11.	INCREASE OF WEAR RESISTANCE OF DETAILS OF CUP-TYPE WITH THE
	FLANGE IN THE GROUND PART BY DIRECT EXTRUSION WITH
	COUNTERPUNCH
	Vorontsov A.L.
	Bauman Moscow State Technical University
12.	INCREASE OF DURABILITY OF HOLLOW DETAILS WITH THE INTERNAL
	LEDGE BY MEANS OF INTERNAL RADIAL EXTRUSION OF TRUMPET BLANK
	Vorontsov A.L.
	Bauman Moscow State Technical University
13.	MOLECULAR ENGINEERING IN TRIBOLOGY
	Guydar S.M.
	Russian State Agrarian University – Moscow Timiryazev Agricultural Academy
14.	ADVANCED LINES OF RESEARCHES AND APPLICATIONS OF PLASMA
	TECHNOLOGIES IN ENGINEERING
	Glinskiy M.A.
	AO Alfa Laval Potok
15.	CARDO POLYMERS AS HEAT AND THERMAL RESISTANT ANTIFRICTION
	MATERIALS AND BINDERS
	Goroshkov M.V.
	A.N.Nesmeyanov Institute of Organoelement Compounds of RAS
16.	STUDY OF THE WEAR OF CHROMIUM-ALUMINUM ALLOYS UNDER FRICTION
	CONDITIONS WITH IMPACT ON THE ABRASIVE SURFACE
	Grydunov S.S.
	Bryansk State Technical University
17.	LATERAL THINKING ABOUT WEAR RESISTANCE OF CARBON FILMS
	Ilyasov V.V.
1.0	Don State Technical University
18.	ION-PLASMA IMPLANTING, AS THE TECHNOLOGY OF CREATION OF
	INTERMETALLICS
	Smirnov G.V.
10	University of Technology PESTORE WORM SUREACES OF BARTS OF EDICTION LINES OF
19.	RESTORE WORN SURFACES OF PARTS OF FRICTION UNITS OF
	TECHNOLOGICAL EQUIPMENT OF POLYMER COMPOSITE MATERIALS
	Korneev A.A.
20	A.N. Kosygin Russian State University
20.	SURFACE FAILURE OF THE ELASTOMER OBLIQUE IMPACT OF ABRASIVE PARTICLES
	Kopchenkov V.G.
	North-Caucasus Federal University
21.	ABRASIVE RESISTANCE OF PRECIPITATION HARDENING ALLOYS ON
21.	NICKEL-CHROME AND COPPER-BERYLLIC BASES
	Kukareko V.A.
	Joint Institute of Mechanical Engineering of the NAS of Belarus
<u> </u>	To the Institute of Meenament Engineering of the 1770 of Delatus

	20 November	14^{00} – 18^{00}	Building 4, floor 1, room 109		
	M	oderators: Alisin V.V. Kra	asnov A.P.		
	Scientific secretary: Misnik P.S.				
22.	RAMAN SPECTROSCO	PY EVALUATION OF D	IAMOND-LIKE CARBON		
	COATINGS				
	Kulakov O.I.				
	_	esearch Institute of the R	ussian Academy of Sciences (IMASH		
20	RAS)		VEGIG DAY AND A CENTROD		
23.	_	HIN ZNO FILMS SYNTF	HESIS BY ALD METHOD		
	Kulakov O.I.		TIMACII		
	RAS)	esearch institute of the R	ussian Academy of Sciences (IMASH		
24.	,	ОСТНУЮ ПРОЧНОСТЬ	ЭКСПЛУАТАЦИОННОГО		
27.			ЕЙ ЖЕЛЕЗНОДОРОЖНЫХ		
	КОНСТРУКЦИЙ	III WII I VIII I DIZI AL I I WI	EII MESIEGII GAGI GMIIBIA		
	Lebedinskiy S.G.				
		esearch Institute of the R	ussian Academy of Sciences (IMASH		
	RAS)		•		
25.	SYNTHESIS OF NANOC	COMPOSITE COATINGS	WITH USE OF THE SYMMETRIC		
	STRUCTURES HAVING	THE POLAR STRUCTU	JRE		
	Levchenko V.A.				
	Lomonosov Moscow State				
26.		MATERIALS BASED C	N SYNTHETIC AND ARTIFICIAL		
	FIBERS				
	Leshok A.V. SSI "Powder Metallurgy In	actituta"			
27.			ASED ON COPPER AND FILLED		
27.	WITH FULLEREN-LIKE		BED OIL COITER IN DITEELD		
	Leshok A.V.				
	SSI "Powder Metallurgy In	nstitute"			
28.	HIGH TEMPERATURE S	SYNTHESIS OF METAL	-CERAMIC		
	SELF-LUBRICATING CO	OMPOSITES			
	Lukyanov A. I.				
		desearch Institute of the R	ussian Academy of Sciences (IMASH		
20	RAS)	EDIL ANG			
29.	TRIBOCHEMISTRY OF Malkin A.I.	EPILAMS			
	A.N. Frumkin Institute of	Dhysical chamistry and Fl	actrochamistry DAS		
30.			ODS FOR INCREASE OF		
50.			S BASED ON PTFE AND CARBON		
	FIBERS				
	Markova M.A.				
	Institute of Oil and Gas Pr	oblems of the Siberian Br	anch of RAS		
31.	PARAMETRIC AND SPE	ECTRAL EVALUATION	OF ROUGHNESS OF THE		
	ELASTOMERS SURFAC	E EXPOSED TO THE W	EAR TESTS		
	Morozov A.V.				
	Ishlinsky Institute for Prob		<00		
		Coffee break 15 ⁴⁵ –1	6**		

32.	EVALUATION OF WEAR RESISTANCE OF COPPER AT SLIDING AGAINST TIC
	BASED COATINGS UNDER LOAD
	Mukanov S.K.
	Scientific-educational Center of Self-distributing High-temperature Synthesis MISIS-
	ISMAN
33.	SUPER LOW FRICTION OF DOPED COMPOSITION
	Nozhenkov M.V.
	Joint Stock Company "Moscow Radiotechnical Institute of RAS"
34.	ABRASIVE WEAR RESISTANCE OF TOOL STEEL AFTER LASER HARDENING
	AND SHORT-TIME TEMPERING
	Ratkevich G.V.
	Tver state technical university
35.	TRIBOTECHNICAL PROPERTIES OF HIGHLY FILLED METAL-CERAMIC
	MATERIALS
	Sevostyanov N.V.
	Federal State Unitary Enterprise All-Russian Scientific research Institute of Aviation
2.5	Materials
36.	MODERN METHODS OF INCREASING WEAR RESISTANCE MACHINES APPLIED
	IN THE PROCESSES OF FORMATION
	Serbin V.M.
27	North-Caucasus Federal University
37.	WEAR-RESISTANCE DETERMINATION OF STEEL SAMPLES WITH MINERAL
	COATINGS IN DRILLING MUD SLIDE
	Skazochkin A.V. Values Branch of the Bussian Brasidantial Academy of National Economy and Bublic
	Kaluga Branch of the Russian Presidential Academy of National Economy and Public Administration
38.	A STUDY OF THE IMPACT OF CORUNDUM MICROSPHERES ON TRIBOLOGICAL
30.	PROPERTIES OF POLYTETRAFLUOROETHYLENE
	Fedorov A.L.
	Institute of Oil and Gas Problems of the Siberian Branch of RAS
39.	TRIBOLOGICAL CHARACTERISTICS OF CERAMIC-METALLIC COMPOSITE
	MATERIALS WITH WEAR-RESISTANT COATINGS
	Chertovskikh S.V.
	Ufa State Aviation Technical University
40.	ADHESION PARAMETERS OF FRICTION OF LARGE-CERTAIN AND ULTRAFINE-
	GRAINED TITANIUM ALLOY GRADE4 WITH COATINGS IN CONTACT WITH
	FAST STEEL R6M5
	Chertovskikh S.V.
	Ufa State Aviation Technical University
41.	MODEL OF THE INFLUENCE OF THE SURFACE INCLUSIONS OF THE SOFT
	PHASE ON THE FRICTION OF ALUMINUM ALLOYS
	Shpenev A.G.
42	Ishlinsky Institute for Problems in Mechanics RAS
42.	INVESTIGATION OF PROPERTIES AND STUCTURE CHANGES OF OF
	ALUMINUM ALLOYS AFTER TRIBOLOGICAL TESTS
	Shcherbakova O.O. Ishlinday Institute for Problems in Machanics P.A.S.
	Ishlinsky Institute for Problems in Mechanics RAS
	Discussion

FRICTION UNITS

	20 November	9^{00} – 13^{00}	Building 4, floor 1, room 112		
	Moderators: Gustov Yu.I., Pamfilov E.A.				
	Scientific secretary: Khasyanova D.U.				
1.	COMPARATIVE INFOR	MATION ABOUT THE IN	TENSITY OF WEAR OF THE		
	MATERIALS OF FRICT	ION UNITS IN ABRASIVI	E AND NONABRASIVE MEDIA		
	Avilkin Yu.M.				
2.	OPTIMAL DESIGN OF «	HUB-PLUNGER» FRICT	ON PAIR WITH MINIMAL WEAR		
	Akhundova P.E.				
	Azerbaijan State Universit	<u> </u>			
3.		E CRITERIA OF ROLLER	-SCREW MECHANISMS		
	Blinov D.S.				
	Bauman Moscow State T	•			
4.			NG WEAR RESISTANCE OF		
		ON PAIR "TOOL-DETAII	_»		
	Bokov A.I.				
	Don State Technical University ASSESSINNG WOOD-C				
5.	Buglaev A.M.	UTTING TOOLS WEAR			
	Bryansk State Technical U	Iniversity			
6.		INFLUENCE OF THE FA	CTOR OF FRICTION ON		
0.		ING OF HORIZONTAL W			
	Buyanovskiy I.N	ind of Homzonine w	LEES OF BIG LOTGEST		
	"Aquatic - drill pipes" Ltd				
7.	NUANCES IN TRIBOLO				
	Voinov K.N.				
	ITMO UNIVERSITY				
8.	DEFORMATION-TOPOO	GRAPHIC METHOD OF R	ESEARCH OF TRIBOTECHNICAL		
	INDICATORS OF CONS	TRUCTION EQUIPMENT			
	Gustov Yu. I.				
	Moscow State University				
9.			OF INNOVATION IN THE FIELD		
	OF TRIBOLOGY AND T	RIBOTECHNIQUE			
	Zainetdinov R.I.	(D A DC)			
10.	Russian Academy of Raily	vays (RAPS) RE TURBOPUMPS SEGM	ENT CEALC		
10.	Ivanov A.V.	RE TURBUPUMPS SEGM	ENI SEALS		
	NPO Energomash				
	141 O Elicigolilasii	Coffee break 10 ⁴⁵ –11	00		
11.	EXPERIMENTAL STUD	Y OF DYNAMIC CHARA			
11.			ERIALS OF FRICTION PAIRS		
	Ismailov G. M.				
	Tomsk State Pedagogical	University			
12.	<u> </u>	•	RTIES AT HIGH TEMPERATURES		
	IN THE CONDITIONS O	F FAST HEATING RATE	S		
	Kolomiytsev I.A.,				
	JSC «Kompozit»				

13.	ABOUT DESTRUCTION OF SHOCK-LOADED BEARINGS
	Korneev S.V.
	The Siberian State Automobile and Highway University
14.	MINING MACHINES ELEMENTS LONGEVITY ESTIMATION IN CASE
	OF ABRASIVE WEAR
	Kritskij D.Y.
	JSC "SUEK-Krasnoyarsk"
15.	IMPROVEMENT OF TRIBOLOGICAL CALCULATIONS WITH USE OF
	MEASUREMENTS OF PARAMETERS OF THE SURFACE ON MODERN
	PROFILOMETERS
	Kurapov P.A.
	Joint-Stock Company "MMPP "SALUT"
16.	EXPERIMENTAL IDENTIFICATION OF THE MECHANICAL LOSSES OF THE
	BEARINGS WITH THE USE OF ADDITIONAL INERTIA
	Levanova T. S.,
	Mari State University
17.	CIP METHOD OF DETERMINING THE MECHANICAL LOSSES IN FRICTION
	MOTOR
	Levanova T. S.,
	Mari State University
18.	INVESTIGATION OF TRIBOLOGICAL PROPERTIES OF TiN-Pb SYSTEM SOLID
	LUBRICANT COATINGS WITH VARIOUS MORPHOLOGY
	Lyakhovetskiy M.A.
	Moscow Aviation Institute
19.	TRIBODIAGNOSTIKA MOTOR CARS ONBOARD CONTROL METHODS
	Matveevsky V.R.
	JSC «MMK»
20.	THE RESEARCH OF THE TRIBOTECHNICAL PROPERTIES OF MATERIALS
	AND COATINGS FOR METAL CUTTING TOOL
	Migranov M.SH.
	Ufa State Aviation Technical University
21.	ESTIMATION OF THE INSTABILITY OF THE FRICTION COEFFICIENT OF
	ROLLED FRICTION-POLYMERIC MATERIALS AT LOW PRESSURES
	Nosko A.L.
	Bauman MSTU

	20 November	14^{00} – 18^{00}	Building 4, floor 1, room 112
	Moderators: Shapovalov V.V., Nosko A.L. Scientific secretary: Khasyanova D.U.		
22.	THE WEARLESS OPERARESULTS Novikov V.I. JSC "Venchur-N"	ATION TECHNOLOGY	- 15 YEARS APPLICATION
23.	SCIENCE - THE MAIN P DREAMS OR REALITY Novikov V.I. JSC "Venchur-N"	PRODUCTIVE FORCE O	F THE RUSSIAN ECONOMY -

 24. INVESTIGATION OF FRICTION INTERACTION OF FRICTION PAIR OF A PIEZOELECTRIC ACTUATORS Padgurskas J. Alexandras Stulginskis University 25. THE TEST METHODOLOGY IS COMPLEX TRIBOSYSTEM Pamfilov E. A. 	
Padgurskas J. Alexandras Stulginskis University 25. THE TEST METHODOLOGY IS COMPLEX TRIBOSYSTEM Pamfilov E. A.	
Alexandras Stulginskis University 25. THE TEST METHODOLOGY IS COMPLEX TRIBOSYSTEM Pamfilov E. A.	
25. THE TEST METHODOLOGY IS COMPLEX TRIBOSYSTEM Pamfilov E. A.	
Pamfilov E. A.	
Bryansk State Technical University	
26. THE EFFECT OF WEAR ON THE ACCUMULATION OF FATIGUE DAMAGE	
AND INCREASE THE PROBABILITY OF FAILURE OF MECHANICAL SYSTEMS	3
Petrova I.M.	,.
Mechanical Engineering Research Institute of the Russian Academy of Sciences (IMAS	Н
RAN)	
27. FORCE TIGHTENING ESTIMATION OF AVIATION BOLTED JUNCTION	
Puchkov V.N.	
Mechanical Engineering Research Institute of the Russian Academy of Sciences (IMAS	Н
RAN)	
28. APPLICATION OF ACOUSTIC EMISSION FOR FINDING AND INVESTIGATING	
THE TRANSIENT REGIMES OF FRICTION AND WEAR	
Rastegaev I.A.	
Togliatti State University	
29. STUDY OF MICROSTRUCTURE AND MICROHARDNESS OF A BIMETAL FLUI)-
FILM BEARING	
Rodichev A.Y.	
Orel State University	
30. THE IMPACT OF TRIBOSYSTEM CHARACTERISTICS ON ECO-ECONOMIC	
Romanova A.T.	
Moscow State University of Railway Engineering (MIIT)	
31. EFFECT OF TESTING SCHEME ON WEAR INTENSITY OF ALUMINIUM ALLOY	
UNDER DRY FRICTION	
Skorentsev A.L.	
Institute of Strength Physics and Materials Science of Siberian Branch of Russian Acade	emy
of Sciences (ISPMS SB RAS) Coffee break 15 ⁴⁵ –16 ⁰⁰	
32. THE INFLUENCE OF FREQUENCY OF ROTATION WEAR THE PUMPING STAGES OF ESP	
STAGES OF ESP Smirnov N.I.	
Mechanical Engineering Research Institute of the Russian Academy of Sciences (IMAS	Ц
RAN)	11
33. TRIBOTECHNICAL SYSTEMS RELIABILITY CONTROL ON THE DEVELOPME.	VТ
STAGE.	11
Sutyagin O.V.	
Research and innovation center for operational reliability of mechanical systems	
34. DESIGN AND CALCULATION OF FOIL GAS DYNAMIC BEARINGS WITH	
CENTRAL FOIL FIXATION	
Sytin A.V.	
Orel State University	
35. CONDITION MONITORING AND TRIBODIOGNOSTICS OF FRICTION DETAILS	
OF MAIN REDUCTORS OF MEDIUM AND HEAVY HELICOPTERS	
Shabalinskaya L.A.	
Central Institute of Aviation Motors	

36.	IMPROVING METAL PLATING WITH THE AIM OF IMPROVING TRACTION
	CHARACTERISTICS OF LOCOMOTIVES
	Shapovalov V.V.,
	Rostov State Transport University
37.	THE STUDY OF THE REGULARITIES OF WEAR OF CHAIN SAW MACHINES
	FORESTRY EQUIPMENT
	Sheveleva E. V.
	Bryansk State University of Engineering and Technology
38.	COMPREHENSIVE PERFORMANCE ASSESSMENT AND SYNTHESIS OF
	CONCEPTS OF THE ADAPTIVE FRICTION CLUTCH WITH AUXILIARY
	POWER CIRCUIT
	Shishkarev M. P.
	Don State Technical University
39.	ANALYSIS OF THE ACCURACY OF TRIGGERING THE ADAPTIVE FRICTION
	CLUTCHES WITH DIFFERENT FRICTION PAIRS
	Shishkarev M. P.
	Don State Technical University
40.	THE ROLE OF HEAT SINK IN THE TEMPERATURE DISTRIBUTION ALONG THE
	STEEL SHELL-SAMPLE UNDER ELECTRIC CURRENT IN THE CONDITIONS OF
	DRY SLIPPING AGAINST STEEL E
	Fadin V.V.
	Institute of Strength Physics and Materials Science of Siberian Branch of Russian Academy
	of Sciences (ISPMS SB RAS)
41.	TRIBOANALYSIS AND SYNTHESIS OF MACHINE AS TRIBOSUPERSYSTEM
	Fedorov S.V.
	Kaliningrad State Technical University
42.	EXPERIMENTAL DETERMINATION OF DEPENDENCES OF COEFFICIENTS OF
	FRICTION ON ROTATION FREQUENCY OF THE SHAFT, IN THE DESIGN LIKE
	"RADIAL BALL-BEARING IN THE RADIAL BALL-BEARING"
	Chkhetiani P.D.
	Mechanical Engineering Research Institute of the Russian Academy of Sciences (IMASH RAN)
	Discussion

FUNDAMENTAL PROBLEMS OF TRIBOLOGY

	21 November	9^{00} - 12^{30}	Building 5, floor 2, room 2-22
	Mod	erators: Akhverdiev K.S.,	Gaidar S.M.
		Scientific secretary: Kula	kov O.I.
	CALCULATED MODELS	S OF THE HYDRODYN	AMIC VISCOELASTIC LUBRICANT
	WHICH IS FORMED WH	EN MELTING THE SUI	RFACE OF THE BEARING
1.	PLUG COVERED WITH THE METAL LOW- MELTING COVERING		
	Akhverdiev K.S.		
	Rostov State Transport Un	iversity	
	A NUMERICAL IMPLEM	IENTAION OF THE UZ	AWA ALGORITHM FOR
2.	THREE-DINENSIONAL	CONTACT PROBLEMS	WITH FRICTION
۷.	Bobylev A. A.		
	Lomonosov Moscow State	University	
3.	ON THE MECHANISM C	F ACTION OF COHESI	ON FORCES IN TRIBOSYSTEMS
	Borodai A.V.		
	Platov South-Russian State	Polytechnic University (NPI)

ON THE NATURE OF PRICTION BOND 8 Borodai AV. Platov South-Russian State Polytechnic University (NPI) DEVELOPMENT OF COMPUTATIONAL MODELS OF HYDRODYNAMIC LUBRICANT FORMED DURING THE MELTING OF THE THRUST BEARING, IN THE PRESENCE OF FORCED COMPRESSIBLE LUBRICANT Vasilenko V. V. Rostov State Transport University DEVELOPMENT AND ANALYSIS OF THE MODEL DIAGRAM OF INSTRUMENTAL INDENTATION IN THE TRIBOTECHNICAL TOPOCOMPOSITE Voronin N.A. Mechanical Engineering Research Institute of the Russian Academy of Sciences (IMASH RAN) MATHEMATICAL MODELING OF FLUID DYNAMICS IN A THIN LAYERS WITH FLUIDS OF COMPLEX RHEOLOGY Kornaev A.V. Orel State University Coffee brake 10**—10** SIMULATION OF THE CONTACT PROBLEM OF THE PNEUMATIC TIRE WITH THE ACCOUNT OF THE PROTECTOR FORM IN THE ABAQUS SOFTWARE COMPLEX Korolev P.V. Ivanovo State Power University CONTACT CHARACTERISTICS FOR ELASTIC PLASTIC LOADING AND FOLLOWING UNLOADING OF THE JOINTS OF ROUGH SURFACES Ogar P.M. Bratsk State University THE ROLE OF CONTACT CHARACTERISTICS IN ENSURING THE TIGHTNESS OF METAL-POLYMER JOINTS Ogar P.M. Bratsk State University THE ESTIMATED MODEL ELASTODEFORMED THRUST BEARING BASED ON THE DEPENDENCE OF ELECTRICAL CONDUCTIVITY OF THE LUBRICANT VISCOSITY AND PERMEABILITY OF THE POROUS LAYER FROM THE PRESSURE Opatskih A.N. ROSTOV STATE TRANSPORT University RESEARCH OF MAGNETIC INDUCTION EFFECTS AT TECHNOLOGICAL MANAGEMENT OF WEAR RESISTANCE OF STALYA PRIVANCE OF PROBLEMS RYKKIN N.N. LLC "Medical computer systems" CONTACT PROBLEMS FOR ELASTIC LAYER 13. BRYTHS STATE THE MODELING OF ELASTIC HYDRODYNAMIC PROBLEMS RYKKIN N.N. LLC "Medical computer systems" CONTACT PROBLEMS FOR ELASTIC LAYER 14. Usov P. P. National Research University of Electronic Technology INDENTATION OF SPHERICAL INDENTER INTO VISCOELASTIC HALF-SPACE 15. Yakovenko A. A. Moscow Institute of Physics and Technology (State University)		
Platov South-Russian State Polytechnic University (NPI) DEVELOPMENT OF COMPUTATIONAL MODELS OF HYDRODYNAMIC LUBRICANT FORMED DURING THE MELTING OF THE THRUST BEARING, IN THE PRESENCE OF FORCED COMPRESSIBLE LUBRICANT Vasilenko V. V. Rostov State Transport University DEVELOPMENT AND ANALYSIS OF THE MODEL DIAGRAM OF INSTRUMENTAL INDENTATION IN THE TRIBOTECHNICAL TOPOCOMPOSITE Voronin N.A. Mechanical Engineering Research Institute of the Russian Academy of Sciences (IMASH RAN) MATHEMATICAL MODELING OF FLUID DYNAMICS IN A THIN LAYERS WITH FLUIDS OF COMPLEX RHEOLOGY Kornaev A.V. Orel State University Coffee brake 10**0-10** SIMULATION OF THE CONTACT PROBLEM OF THE PNEUMATIC TIRE WITH THE ACCOUNT OF THE PROTECTOR FORM IN THE ABAQUS SOFTWARE COMPLEX ROSTORY P.V. Ivanovo State Power University CONTACT CHARACTERISTICS FOR ELASTIC PLASTIC LOADING AND FOLLOWING UNLOADING OF THE JOINTS OF ROUGH SURFACES Ogar P.M. Bratsk State University THE ROLE OF CONTACT CHARACTERISTICS IN ENSURING THE TIGHTNESS OF METAL-POLYMER JOINTS Ogar P.M. Bratsk State University THE ESTIMATED MODEL ELASTODEFORMED THRUST BEARING BASED ON THE DEPENDENCE OF ELECTRICAL CONDUCTIVITY OF THE LUBRICANT VISCOSITY AND PERMEABILITY OF THE POROUS LAYER FROM THE PRESSURE Opatskih A.N. Rostov State Transport University RESEARCH OF MAGNETIC INDUCTION EFFECTS AT TECHNOLOGICAL MANAGEMENT OF WEAR RESISTANCE OF STALVA Pyrikov P. Bryansk State Technical University FINTE ELEMENT MODELING OF ELASTIC HYDRODYNAMIC PROBLEMS FOR CYLINDRICAL JOURNAL BEARINGS Rybkin N.N. LLC "Medical computer systems" CONTACT PROBLEMS FOR ELASTIC LAYER USOV P. P. National Research University of Electronic Technology NDENTATION OF SPHERICAL INDENTER INTO VISCOELASTIC HALF-SPACE NABORA A. A. Moscow Institute of Physics and Technology (State University)		ON THE NATURE OF FRICTION BOND
DEVELOPMENT OF COMPÜTATIONAL MODELS OF HYDRODYNAMIC LUBRICANT FORMED DURING THE MELTING OF THE THRUST BEARING, IN THE PRESENCE OF FORCED COMPRESSIBLE LUBRICANT Vasilenko V. V. Rostov State Transport University DEVELOPMENT AND ANALYSIS OF THE MODEL DIAGRAM OF INSTRUMENTAL INDENTATION IN THE TRIBOTECHNICAL TOPOCOMPOSITE Voronin N.A. Mechanical Engineering Research Institute of the Russian Academy of Sciences (IMASH RAN) MATHEMATICAL MODELING OF FLUID DYNAMICS IN A THIN LAYERS WITH FLUIDS OF COMPLEX RHEOLOGY Kornaev A.V. Orel State University Coffee brake 10 ³⁰ -10 ⁴⁵ SIMULATION OF THE CONTACT PROBLEM OF THE PNEUMATIC TIRE WITH THE ACCOUNT OF THE PROTECTOR FORM IN THE ABAQUS SOFTWARE COMPLEX Korolev P.V. Ivanovo State Power University CONTACT CHARACTERISTICS FOR ELASTIC PLASTIC LOADING AND POLLOWING UNLOADING OF THE JOINTS OF ROUGH SURFACES Ogar P.M. Bratsk State University THE ROLE OF CONTACT CHARACTERISTICS IN ENSURING THE TIGHTNESS OF METAL-POLYMER JOINTS Ogar P.M. Bratsk State University THE ESTIMATED MODEL ELASTODEFORMED THRUST BEARING BASED ON THE DEPENDENCE OF ELECTRICAL CONDUCTIVITY OF THE LUBRICANT VISCOSITY AND PERMEABILITY OF THE POROUS LAYER FROM THE PRESSURE Opatskih A.N. ROSTON SEARCH OF MEAR RESISTANCE OF STALYA Pyrikov P. Bryansk State Technical University FINITE ELEMENT MODELING OF FLASTIC HYDRODYNAMIC PROBLEMS FOR CYLINDRICAL JOURNAL BEARINGS RYBHENT OF WEAR RESISTANCE OF STALYA Pyrikov P. Bryansk State Technical University FINITE ELEMENT MODELING OF FLASTIC HYDRODYNAMIC PROBLEMS FOR CYLINDRICAL JOURNAL BEARINGS RYBHENT OF WEAR RESISTANCE OF STALYA Pyrikov P. Bryansk State Technical University of Electronic Technology INDENTATION OF SPHERICAL INDENTER INTO VISCOELASTIC HALF-SPACE Vakovenko A. A. Moscow Institute of Physics and Technology (State University)	4.	
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15. Yakovenko A. A. Moscow Institute of Physics and Technology (State University)		·
Moscow Institute of Physics and Technology (State University)	15.	

NANOTRIBOLOGY

	21 November 9^{00} – 12^{30} Conference hall				
	Moderators: Stolyarov V.V., Zadoshenko E.D. Scientific secretary: Samusenko V.D.				
1.	FOR HIGH-SPEED RAIL Alisin V.V.	TRANSPORT	an Academy of Sciences (IMASH		
2.	TRIBOLOGICAL PROPE NANOSTRUCTURAL Al Berezina E.V. Ivanovo State University	RTIES OF PLASTIC LUBR ODITIVES	ICANTS WITH		
3.	TRIBOLOGICAL OPPOR AQUEOUS SOLUTIONS Drogan E.G. Don State Technical University		PAIR BRASS-STEEL IN		
4.	FRICTION Zadoshenko E.G. Don State Technical University	ersity	TH NANOMODIFICATORS OF		
5.	Izmailov V.V.	PARAMETERS AND SOMI сударственный технический			
6.	COMPOUND COATING Migranov M.SH.		GES OF NANOSTRUCTURAL		
7.		NITIES OF GOLD NANOC	LUSTERS IN THE LUBRICANTS		
		Coffee break 10 ³⁰ –10 ⁴⁵			
8.	Parenago O.P.	RTIES OF METAL SULPHI Petrochemical Synthesis, RAS			
9.	LASER SURFACE TEXT OF DIAMOND-LIKE NA Pimenov S.M. Prokhorov General Physic	URING TO IMPROVE TRIE NOCOMPOSITE FILMS s Institute of the Russian Acad	BOLOGICAL PROPERTIES demy of Sciences, Moscow, Russia		
10.		OLOGICAL AND STRENG ERAMICS ON THE BASIS (TH PROPERTIES OF NEW OF BADDELEYITE IN MICRO -		
11.	Stolyarov V.V.		ANOSTRUCTURE MATERIALS an Academy of Sciences (IMASH		

12.	TRIBOCONTACT EVOLUTION REGULARITIES. NANO-STRUCTURAL MODEL		
	FOR FRICTION CONTACT		
	Fedorov S.V.		
	Kaliningrad State Technical University		
13.	PROPERTIES OF MATERIAL AND SUB-ROUGHNESS FRICTION SURFACE		
	Shalygin M.G.		
	Bryansk State Technical University		
14.	INFLUENCE OF CARBON NANOPARTICLES OF VARIOUS NATURE ON		
	RHEOLOGICAL PROPERTIES OF PLASTIC LUBRICANTS		
	Shilov M.A.		
	Ivanovo State Power University		
15.	MODERN APPROACHES TO NANOMECHANICAL AND RHEOLOGICAL TESTS:		
	EXPERIENCE OF KLA-TENCOR AND TA INSTRUMENTS		
	Neudachina V.S.,		
	INTERTECH Corporation Moscow representative office		
	Discussion		

METAL WORKING

	21 November	Building 4, floor 3, room 320			
	Moderators: Godlevskiy V.A., Berdichevskiy E.G,				
	Scientific secretary: Khasyanova D.U.				
1.	CALCULATION-EXPERIMENTAL METHOD FOR SELECTING OPTIMAL REGIME				
	WHILE TURNING				
	Aliev M.M.				
	Don State Technical Unive				
2.			FORCE TO LIMIT THE DEGREE		
		O STRAIN DRAWN BLA	NKS FROM ALLOY Al-31		
	Botkin A.V.				
2	Technopark «SFCC UAI»	TALL CT ACE OF DUDAY	MANINE WITH ALTERA OF A AMERICA		
3.			ISHING THE SURFACE LAYERS OF		
	PARTS OF MECHANICAL SYSTEMS				
	Golubev A.P.				
4.	Technological University	I INC DDOCESS ON A M	HILTI STAND DOLLING MILL		
4.	CONTROL OF THE ROLLING PROCESS ON A MULTI-STAND ROLLING MILL Malafeev S.I.				
	LLC United Energy Company				
5.			TIVE WEAR OF TOOL CUTTING		
<i>J</i> .	MATERIALS BASED ON THE CHARACTERISTICS OF THE STRUCTURE				
	Moiseev D.V.		es of The streetere		
	Don State Technical University				
6.	CALCULATION OF THE		MS FORMATION FOR		
	LUBRICATION WHEN CUTTING STEEL IN A CONTROLLED ATMOSPHERE				
	Novikov V. V.				
	Ivanovo State University				
7.	INFLUENCE OF TSM ON	N TEMPERATURE WHE	N THE TOOL IS BROUGHTED BY		
	ELBOR CIRCLES OF DII	FFERENT GRAIN			
	Panayoti V.A.				
	Russian Technological Un	iversity MIREA			

Coffee break 10 ³⁰ -10 ⁴⁵				
8.	RESEARCH AND INDUSTRIAL TESTS OF LUBRICANTS FOR DRAWING COPPER			
	AND ALUMINUM WIRE			
	Puzyrkov D.F.			
	Technopark «SFCC UAI»			
9.	THEORETICAL ESTIMATION OF THE CONTRIBUTION OF OXIDATIVE			
	REACTIONS IN THE WEAR OF THE CUTTING SYSTEM			
	Ryzhkin A.A.			
	Don State Technical University			
10.	DETERMINATION OF COOLING EMULSION FOR METAL WORKING PROCESSES			
	Tyulenev D.G.			
	Technopark «SFCC UAI»			
11.	INCREASE OF PRODUCTION EFFICIENCY OF CUP-TYPE DETAILS WITH THE			
	CONIC GROUND PART BY MEANS OF COMBINED EXTRUSION			
	Tyalina D.A.			
	Bauman MSTU			
12.	THE FEATURES OF THE FRICTION PROCESS IN THE BREAKING PROCESS OF			
	DETAILS FROM NITINOL			
	Khasyanova D.U.			
	Mechanical Engineering Research Institute of the Russian Academy of Sciences (IMASH			
	RAN)			
13.	TRIBOLOGICAL CHARACTERISTIC OF PERSPECTIVE COOLANT-CUTTING			
	FLUID FOR METAL CUTTING			
	Chkhetiani P.D.			
	Mechanical Engineering Research Institute of the Russian Academy of Sciences (IMASH			
	RAN)			
14.	ON THE RELATION OF STRUCTURAL AND TRIBOLOGICAL CHARACTERISTICS			
	OF HIGH SPEED STEELS IN CONDITIONS OF FRICTION WITHOUT LUBRICANT			
	Shuchev C.G.			
	Don State Technical University			
	Discussion			

TRIBOLOGICAL MATERIAL SCIENCE

21 November 9 ⁰⁰ –12 ³⁰			Building 4, floor 1, room 109		
	Moderators: Lobova T.A., Biryukov V.P.				
	Scientific secretary: Misnik P.S.				
1.	INFLUENCE OF TYPE C	OF CERAMIC PARTICLES	S ON FRICTION PROPERTIES OF		
	GAS DYNAMIC COATING ON AMg6/C60 BASIS				
	Aborkin A.V.				
	Vladimir State University				
2.	EXPERIENCE OF USING	G A WEAR-RESISTANT (ORGANOPLASTIC OXAPHENE IN		
	HEAVY OPERATION CONDITIONS				
	Buyaev D.I.				
	LLC "OVITEC"				

3.	DEVELOPMENT AND INVESTIGATION OF MECHANICAL AND TRIBOLOGICAL PROPERTIES OF COMPOSITES ON THE BASIS OF THERMAL-RESISTANT
	POLYMERS AND DIFFERENTIAL FILLERS
	Danilov V.D.
	Mechanical Engineering Research Institute of the Russian Academy of Sciences (IMASH
	RAN)
4.	DEVELOPMENT OF TECHNOLOGICAL RECOMMENDATIONS TO IMPROVE THE
	WEAR RESISTANCE OF THE PLUNGER AXIAL PLUNGER PUMPS OF ION-
	PLASMA COATING
	Komadina A. S.
	GUBKIN RUSSIAN STATE UNIVERSITY OF OIL AND GAS
5.	DETERMINATION OF ADHESION STRENGTH OF THIN COATINGS BY THE
	INSTRUMENTED INDENTATION TEST
	Kravchuk K.S.
	Mechanical Engineering Research Institute of the Russian Academy of Sciences (IMASH
	RAN)
6.	THE EFFECT OF SECONDARY STRUCTURES ON WEAR RESISTANCE OF
	STEEL COUNTERBODY OPERATING WITH EXPERIMENTAL ALUMINUM ALLOYS FOR SLIDE BEARINGS.
	Kuznetsova E.V.
	MOSCOW STATE UNIVERSITY OF TECHNOLOGY "STANKIN"
7.	THE EFFECT OF MICROSTRESSES AND THE GRAIN SIZE OF THE BASE
/ •	SURFACE ON THE FORMATION OF THE STRUCTURE AND THE TRIBOLOGICAL
	PROPERTIES OF THE COATINGS OF MOLYBDENUM DISELENIDE (MoSe2)
	Lobova T.A.
	National University of Science and Technology MISIS
	Coffee break 10 ³⁰ -10 ⁴⁵
8.	FRICTION OF CROSS-LINKED PHENOL FORMALDEHYDE POLYMER
	Panova M.O.
	A.N.Nesmeyanov Institute of Organoelement Compounds of Russian Academy of Sciences
	(INEOS RAS)
9.	MECHANISMS OF OBTAINING SECONDARY STRUCTURES ON FRICTION
	SURFACE OF EXPERIMENTAL ALUMINUM ALLOYS FOR MONOMETALLIC
	SLIDE BEARINGS
	Podrabinnik P.A.
10	MOSCOW STATE UNIVERSITY OF TECHNOLOGY "STANKIN"
10.	THE EFFECT OF TEMPERATURE ON COEFFICIENT OF FRICTION OF CARBON-
	CARBON MATERIAL AT SLIDING ON STEEL Roshchin M. N.
	Mechanical Engineering Research Institute of the Russian Academy of Sciences (IMASH
	RAN)
11.	ВЛИЯНИЕ СТЕПЕНИ ЛАЗЕРНОГО ДИСКРЕТНОГО УПРОЧНЕНИЯ СТАЛЕЙ И
11.	СПЛАВОВ НА ИЗНОСОСТОЙКОСТЬ ПОВЕРХНОСТИ
	Tarasova T.V.
	MOSCOW STATE UNIVERSITY OF TECHNOLOGY "STANKIN"
12.	WEAR RESISTANCE OF MATERIALS MANUFACTURED BY ADDITIVE
	PRODUCTION METHODS
	Tarasova T.V.
	MOSCOW STATE UNIVERSITY OF TECHNOLOGY "STANKIN"

Discussion		
	Plasmacentre Ltd	
	Topolyansky P.A.	
	ABUTMENT SCREWS	
14.	REINFORCING OF THREADED SURFACES OF THE DENTAL IMPLANTS AND	
	Plasmacentre Ltd	
	Topolyansky P.A.	
	RENOVATION	
13.	DIAMOND-LIKE COATING FOR FUEL DETAIL PARTS HARDENING AND	

FRICTION UNITS

21 November		9^{00} – 12^{30}	Building 4, floor 1, room 112		
	Moderators: Sholom V.Yu., Luzhnov Yu.M.				
	Scientific secretary: Tsukanov I.Yu.				
1.	1. THERMODYNAMIC AND KINETIC ASPECTS OF PHYSICAL-CHEMICAL				
	PROCESSES IN THE FRICTION CONTACT ZONE				
	Boiko M.V.				
	ROSTOV STATE TRAN				
2.		RICTION FORCES ON T	THE ENDS OF THE ROLLERS OF THE		
	BEARIN				
	Egorov I.M.				
	Peter the Great St. Peters	<u> </u>	•		
3.			TIBILITY OF THE FRICTION		
	SURFACES FOR WEAR	R IN HIP ARTHROPLAS	STY		
	Amaev I. I.		ACTEVA (ATC A TEXT)		
	UFA STATE AVIATION				
4.	_		NT OF SERVICEABILITY		
	TRIBOUZLOV ON THE SYSTEM OF CRITERIA OF INTERACTION AND DAMAGE				
	OF SURFACES				
	Zernin M.V. Bryansk State Technical University				
5.	· ·	· ·	NG ON RAILWAYS IN CONDITIONS		
<i>J</i> .			NO ON KAILWATS IN CONDITIONS		
	OF ARCTIC AND CONTINENTAL SHELF Keropyan A.M.				
	National University of Science and Technology MISIS				
6.			N OSCILLATIONS IN THE		
	ELECTROMECHANICA				
	Kopeykin A.I.				
	Vladimir State University				
7.			LS AND RAILS, THE REAL AND		
	EFFECTIVE POSSIBILITIES OF THEIR SOLUTIONS				
	Luzhnov Y.M.				
	JSC VNIIZhT (Railway Research Institute)				
	Coffee break 10 ³⁰ –10 ⁴⁵				
8.		AND VIBRODIAGNOS	STICS OF FARM MACHINERY		
	FLEET				
	Ovchinnikova M.S.				
	Federal scientific agroens	gineering center VIM			

9.	THE ACCOUNT OF FRICTION FORCES IN KINEMATIC PAIRS OF MECHANISMS			
	WHEN EVALUATING THEIR PERFORMANCE			
	Pravotorova E.A.			
	Mechanical Engineering Research Institute of the Russian Academy of Sciences (IMASH			
	RAN)			
10.	INFLUENCE OF ALLOYING ELEMENTS AND CONTACT TEMPERATURES ON A			
	RANGE OF WORKING LOADINGS OF PAIRS FRICTION POLYMER			
	Sedakova E.B.			
	Institute for Problems in Mechanical Engineering of the Russian Academy of Sciences			
	(IPME RAS)			
11.	IMPROVING THE EFFICIENCY OF LOCOMOTIVES BY CREATING AND			
	IMPROVING METHODS OF METALLOCLADDING			
	Kharlamov P. V.			
	Rostov State Transport University			
12.	THE STUDY OF THE CONTROL UNIT FOR AUTOMATIC BALANCING SYSTEMS			
	WITH PULSED SOURCES OF ENERGY			
	Shatalov L.N.			
	Mechanical Engineering Research Institute of the Russian Academy of Sciences (IMASH			
	RAN)			
13.	ABOUT ONE POSSIBILITY TO CONTROL FRICTION IN FRICTION PAIR			
	Sharts A.A.			
	Moscow State University of Technology "STANKIN"			
14.	FATIGUE TESTS OF STEEL ROPES PROVOCHNYH			
	Sholom V.Yu.			
	Technopark «SFCC UAI»			
	Discussion			

PLENARY SESSION

	21 November 13 ³⁰ -15 ³⁰ Conference hall				
	Moderators: Grigoriev A.Ya., Fedorov S.V.				
	Scientific secretary: Samusenko V.D.				
1.	NEW CALCULUS-EXPE	RIMENTAL METHOD OF COM	IPUTATION OF THE		
	ELASTIC MODULE OF O	COATING OF THE TOPOCOMP	POSITE BY USING		
	MODEL DIAGRAM OF I	NDENTATION			
	Voronin N.A.				
	Mechanical Engineering Research Institute of the Russian Academy of Sciences (IMASH				
	RAN)				
2.	STRUCTURE AND MECHANICAL PROPERTIES OF THE BOUNDARY LAYERS				
	OF VEGETABLE OILS				
	Grigoriev A.Ya.				
	V.A. BELYI METAL-POLYMER RESEARCH INSTITUTE OF NATIONAL ACADEMY				
	OF SCIENCES OF BELARUS δ				
3.	TRIBOLOGICAL PROPE	RTIES OF ENVIRONMENTALI	LY FRIENDLY LUBRICANTS		
	BASED ON VEGETABLE	E OILS			
	Ermakov S.F.				
	V.A. BELYI METAL-POI	LYMER RESEARCH INSTITUT	E OF NATIONAL ACADEMY		
	OF SCIENCES OF BELARUS				

4.	THE STUDYING OF INFLUENCE OF SOME ORGANIC COMPOUNDS ON THE		
	PROCESS OF ANTI-FRICTION FILM FORMATION IN A PRESENCE OF		
	BIODEGRADABLE LUBRICANTS		
	Kolesnikov I.V.		
	Rostov State Transport University		
5.	LUBRICANTS IN MECHANICAL ENGINEERING, MODERNITY AND TREND		
	Tsvetkov O.N.		
	A.V.Topchiev Institute of Petrochemical Synthesis, RAS (TIPS RAS)		
6.	A COMPREHENSIVE INDEX OF ENVIRONMENTAL UNITS OF THE TRANSPORT -		
	TECHNOLOGICAL COMPLEX		
	Shulga G.I.		
	Platov South-Russian State Polytechnic University (NPI)		

ROUND TABLE MEETING

Language – **Russian**

21 November	15^{30} – 16^{30}	Conference hall
Moderators: Ermakov S.F. Scientific secretary: Samusenko V.D.		
ECOLOGICAL PROBLEMS OF TRIBOLOGY		

FINAL SESSION

21 November	16^{30} – 17^{00}	Conference hall	
Moderators: Glazunov V.A. Goryacheva I.G. Scientific secretary: Tsukanov I.Yu.			
	GENERAL DISCUSSION		
CONCL	CONCLUSION OF THE CONFERENCE		
CONFERENCE CLOSING			