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APPENDIX: MAP OF NSTU CAMPUS NOVOSIBIRSK METRO SCHEME

WELCOME ADDRESS from Rector of NSTU

Dear colleagues, guests and participants of the International Forum on Strategic Technology! Ladies and Gentlemen!

On behalf of the international co-chairs and members of the Organizing Committee, on behalf of the Novosibirsk State Technical University administration and myself, I welcome you to Siberia, to the center of the Siberian science and innovation - Novosibirsk.

This year our International Forum on Strategic Technology IFOST is celebrating a little anniversary: 10 years ago, in October, 2006, the hospitable University of Ulsan hosted the first IFOST. It was attended by 58 representatives from different universities, and 120 reports were published then.

By human standards, 10 years is the age of a teenager. But our forum, having grown up over these years, is confidently spreading its wings: it has attracted new members - universities of Bangladesh, Indonesia and Malaysia (we also hope that our Vietnamese partner will return to us in the future). This year 462 scientific papers were submitted for the Forum, 373 of which were selected for publication in the IFOST proceedings. 288 publications will be submitted for the "Scopus". And I want to thank the members of the Technical Program Committee, who did a great job for the selection of the most interesting and important scientific papers that will be presented at our 11th International Symposium on Strategic Technology IFOST 2016.

This year, among the international participants of our Forum there are 36 representatives of the University of Ulsan (Republic of Korea), 11 representatives of the Harbin University of Science and Technology (PRC) and 30 representatives of the Mongolian University of Science and Technology. The delegation of Tomsk Polytechnic University, our old good friend and partner, consists of 50 people.

We are glad that these few days of June have brought together representatives of different scientific schools and directions, whose debates and discussions are a prerequisite for the development of science. For all of us it is important that these meetings and discussions give a stimulus to the establishment of joint international research groups and laboratories.

This will consequently become a springboard for a network of scientific and educational cooperation. Through joint research projects, joint supervision of our graduate and PhD students we will come to full-fledged double degree programs in those directions of training of future specialist, which would be vital and relevant for our countries. And the keystone of this network

research and education partnership would be our Forum on Strategic Technology IFOST and its sections that reflect the main priorities of scientific research in our countries.

I wish all the participants of the Forum a successful and fruitful work and an interesting dialogue with their international colleagues! Once again I would like to thank the members of the International Organizing Committee, Technical Program Committee, international and local advisory committees and all the staff members of our university, who not only have done a great job for the preparation of the 11th International Forum on Strategic Technology IFOST, but also put their hearts and souls into this work.



Anatoliy Bataev, Professor, Dr. Rector of Novosibirsk State Technical University, General Chair of the 11th International Forum on Strategic Technology IFOST 2016

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Local Advisory Committee (LAC)

Nadezhda Dvurechenskaya, Director of Center for Scientific and Innovation Activity, Siberian State University of Telecommunications and Informatics, Russia

GENERAL PROGRAM

Legend:

Group A – all IFOST participants (except NSTU participants)

Group \mathbf{B} – IFOST participants from NSTU

Group \mathbf{C} – IFOST Board of Directors

Group \mathbf{D} – IFOST Sections chairs

Group \mathbf{E} – Specially invited guests

Group $\mathbf{F} - \mathbf{MUST}$, UOU, HUST, other foreign participants

Date	Time	Group	Arrangement	Venue
June 1	9.00 - 10.00	A-E	Registration	NSTU 1 st Academic Building,
We				Concert Hall (4 th floor),*
				Karl Marx prospect, 20
	10.00 - 12.00	A-E	Forum opening, plenary	NSTU 1 st Academic Building,
			session, group	Concert Hall (4 th floor),
			photographing	Karl Marx prospect, 20
	12.30 - 13.30	А, С,	Lunch	Gorskiy City Hotel
		D, E		Dining Hall (2 nd floor),
				Nemirovitcha-Danchenko str., 144 a
	14.00 - 18.00	A-E	Sections work	See program of the sections
	18.30 - 20.30	А, С,	Welcome party	Gorskiy City Hotel
		D, E		Conference Hall (6 th floor),
_				Nemirovitcha-Danchenko str., 144 a
June 2 Thu	09.00 - 13.00	A-E	Sections work	See program of the sections
	13.15 - 14.15	A, C,	Lunch	Gorskiy City Hotel
		D, E		Dining Hall (2 nd floor),
				Nemirovitcha-Danchenko str., 144 a
	14.30 - 18.00	A-E	Sections work	See program of the sections
	14.30 - 16.30	С	IFOST BoD meeting	NSTU 1 st Academic Building, office
				316 (3 rd floor),
				Karl Marx prospect, 20
	17.00 - 18:00	F	Dinner	Gorskiy City Hotel
				Dining Hall (2 nd floor),
				Nemirovitcha-Danchenko str., 144 a
	18.30 - 20.00	A, D	Dinner	Gorskiy City Hotel
				Dining Hall (2 nd floor),
				Nemirovitcha-Danchenko str., 144 a
	19:00	F	Visit to Opera House (Ballet "La Bayadere")	Opera House, Krasny Prospect, 36
June 3	09.00 - 13.00	A-E	Sections work	See program of the sections
Fri				
	13.15 – 14.15	A, C,	Lunch	
		D, E		
	14.30 - 18.00	A-E	Sections work	See program of the sections
	18.30 - 21.00	А, С,	Closing Ceremony and	Azimut Hotel Siberia, Banquet Hall
		D, E	Banquet	Lenin str.,21

* NSTU participants and lately comers can be registered directly at their Section venues

PROGRAM OF SCIENTIFIC SECTIONS

SECTION 1: NEW MATERIALS AND NANOTECHNOLOGIES

NEW MATERIALS AND NANOTECHNOLOGIES

Chair: Ivan A. Bataev (NSTU)

Date: 01.06.2016

Venue: NSTU Building I, 2nd floor, Conference hall

N⁰	Time	Report	Author (*Speaker)
	14-00	Section opening	Bataev I.A.
	14-10		
1	14-10	Polarized Scattering Property of One-	Ji Won Ha
	14-30	dimensional Gold Nanowires	
2	14-30	The Effect of Layer-by-layer Laser Sintering	Natalia Saprykina*,
	14-50	on the Quality of Copper Powder Sintered	Alexander Saprykin and
		Surface Layer	Dasha Arkhipova
3	14-50	A study on the defect detection of automobile	Jae Jin Koh* and Heejong
	15-10	parts by measuring the thermal image data	Yang
4	15-10	Microstructures and Properties of SUS316L	Won Joo Kim, Ho Yoon
	15-30	Samples Produced by Selective Laser Sintering	Kim, Sang Hyup Lee, Minh
		Process	Thuyet Nguyen, Hong Hai
			Nguyen, Jin Chun Kim*
			and Hong Seok Park
5	15-30	Influence of the content of manganese on the	Elena Gryaznova* and
	15-50	properties of the modified aluminum	Ludmila Shiyan
	15 50	oxyhydroxide	
	15-50	Coffee-break	
	16-20		
6	16-20	Study on the Molding Mechanism of Straw	Pengqiang Fu, Yunzhi
	16-40	Board Density with FEM	Zhang, Liang Zhou,
			Jianghua Ge and Di Xu
7	16-40	Analysis of the influence of the temperature	Oxana Sheremet* and Boris
	17-00	effect at the state of the initial destruction of	Reznikov
0	17.00	layered composites	
8	17-00	Fabrication of alloyed nickel aluminides	Anastasia Medneva
	17-20		
9	17-20	Adhesion properties of a three-layer system	Mikhail Tkachev*, Evgenii Malnikov, Maria
	17-40	based on RF-magnetron sputter deposited	Melnikov, Maria
		calcium-phosphate coating and silver	Surmeneva, Anna Sharonova, Juan Shulanov
		nanoparticles	Sharonova, Ivan Shulepov, Matthias Eppla, Katoryna
			Matthias Epple, Kateryna Loza and Roman Surmenev
10	17-40	Investigation of physico-mechanical	Ekaterina Chudinova*,
10	17-40	characteristics of 3D scaffolds manufactured	Maria Surmeneva, Andrei
	10-00	by electron beam melting	Koptioug, Per Skoglund
		by election beam menting	and Roman Surmenev

Date: 02.06.2016

N⁰	Time	Report	Author (*Speaker)
	9-00	Section opening	Bataev I.A.
	9-10		
1	9-10	Deformation Behavior of PLA Products with	Ho Yoon Kim, Won Joo
	9-30	Changing of Temperatures of 3D Printer	Kim*, Sang Hyup Lee,
			Minh Thuyet Nguyen,
			Hong Hai Nguyen, Jin
			Chun Kim*, Young Hyuk
			Kim and Young Soo Kim
2	9-30	Nanopowdered Modifiers in Improving a	Chang-Myung Lee,
	9-50	Protective Coating System	Vladimir Goverdovskiy and
-			Sergey Bardakhanov*
3	9-50	The application of carbon nanotubes for	Alexander Bannov*,
	10-10	enhancement of the epoxy thermoelectret	Alexander Shibaev,
		properties	Ekaterina Mochalova,
			Mansur Galikhanov,
			Natalia Limarenko and Binna Valabitova
4	10-10	The ultra-small nanoparticles physical	Rinna Vakhitova
4	10-10	The ultra-small nanoparticles physical properties as a reserve for new technological	Alfred Chernyshev
	10-30	approaches	
		approaches	
	10-30	Coffee-break	
	11-00		
5	11-00	Complex Analysis of Various Multiphase	Albina V. Gobysh* and
	11-20	Composite Parameters Effect on Effective	Boris S. Reznikov
		Characteristics	
6	11-20	Inter-Particle Interactions in Partially Densified	Dina Dudina, Arina
	11-40	Compacts of Electrically Conductive Materials	Ukhina, Andrei Brester,
		during Spark Plasma Sintering	Vyacheslav Mali,
			Alexander Anisimov and
			Boris Bokhonov
7	11-40	Interaction of domain wall with magnetic fields	Olga Komina*, Evgenij
	12-00	and acoustic waves in yttrium orthoferrite	Zhukov, Maria Adamova,
			Yurij Scherbakov and
8	12-00	On synthesis of nanocrystalline Ti-B/Ti-B-N	Valentina Zhukova Dmitrij Nikitin*, Alexander
0	12-00	phases in a hypersonic plasma jet	Sivkov, Dmitrij Gerasimov
	12-20	phases in a hypersonic plasma jet	and Andrew Evdokimov
9	12-20	Deposition of titanium carbide coatings on	Ivan Shanenkov*,
	12-40	copper substrates with high adhesion force	Alexander Sivkov, Dmitriy
	-		Gerasimov and Yuliya
			Shanenkova
10	12-40	Wettability and surface free energy of laser	Maria Surmeneva, Polina
	13-00	micro-textured titanium surfaces coated with	Nikityuk, Michael Hans and
		thin nanostructured HA film	Roman Surmenev
	13-15	Lunch	
	14-15		
	1115		I

Venue: (09.00 – 13.00) – NSTU building I, 2^{<u>nd</u>} floor, Conference hall (14.30 – 18.00) – NSTU building II, room № 505

		1	
11	14-30 14-50	Microstructure and mechanical properties of binary Ti-Nb alloys for application in medicine	Alexander Thoemmes*, Ivan Bataev, Natalya Belousova and Daria Lazurenko
12	14-50 15-10	Effect of structure of transversely isotropic artificial geomaterials on strength and deformation characteristics under uniaxial compression. Theory and experiment	Pavel Tsoi*, Ol'ga Usol'Tseva and Vladimir Semenov
13	15-10 15-30	Sintering of ceramics based on YBa2CuxOy synthesized by plasma dynamic method	Yuliya Shanenkova*, Alexander Sivkov, Alexander Ivashutenko and Ivan Shanenkov
14	15-30 15-50	Mechanical Properties of Explosively Welded Dissimilar Metal Composites Tested at Elevated Temperature	Iuliia N. Maliutina*, Vyacheslav I. Mali, Daria V. Lazurenko, Alexey Yu. Larichkin, Maxim A. Esikov and Vasilii S. Lozhkin
	15-50 16-20	Coffee-break	
15	16-20 16-40	Comparative evaluation of the sand blasting, acid etching and electron beam surface treatments of titanium for medical application	Irina Grubova, Maria Surmeneva, Roman Surmenev, Anna Ivanova, Vladimir Shugurov, Anton Teresov, Nikolay Koval, Konstantin Kravchuk, Oleg Prymak, Matthias Epple and Ekaterina Chudinova*
16	16-40 17-00	Spark plasma sintering of ceramics based on silicon nitride and titanium nitride	Alexander Sivkov, Dmitrij Gerasimov, Andrew Evdokimov, Ilias Rakhmatullin and Dmitrij Nikitin*
17	17-00 17-20	Mechanical behavior of the titania nanotubes and hydroxyapatite coating prepared on the surface of titanium	Roman Chernozem, Maria Surmeneva, Viktor Ignatov, Alexander Tyurin, Tatyana Pyrozhkova, Ivan Shuvarin and Roman Surmenev
18	17-20 17-40	Influence of input energy on nanosized product of Ti-Si-N system obtained by plasmodynamic method	Alexander Sivkov, Dmitriy Gerasimov, Anastasia Saigash and Ivan Shanenkov*
19	17-40 18-00	The Influence of Compacting Pressure on Microstructure and Mechanical Properties of Ni-Al Intermetallics	Lilia Shevtsova, Natalia Sarlaeva* and Vladimir Malicov

N⁰	Time	Report	Author (*Speaker)
1	9-00	Influence of the components forming in creep	Alexey Larichkin, Kirill
	9-20	on fatigue properties of the material	Zakharchenko*, Boris
			Gorevand Vladimir
			Kapustin
2	9-20	Estimation Of Accuracy In Forming	Kh.M. Rakhimyanov, N.P.
	9-40	Construction Steels By The HiFocus	Gaar, A.Kh. Rakhimyanov
		Technology Of High-Precision Plasma Cutting	and A.A. Loktionov
3	9-40	Structure and Properties of Wear Resistant	Olga Lenivtseva*, Dina
	10-00	Layers Fabricated by Non-Vacuum Electron	Krivezhenko, Galina
		Beam Cladding	Alferova, Daria Mul and
			Lyubov Chuchkova
4	10-00	Spark plasma sintering of ceramics based on	Mariia Adamova*, Olga
	10-20	silicon nitride and titanium nitride	Komina, Evgeniy Zhukov
			and Aleksandr Kaminsky
5	10-20	Adhesion strength evaluation of the	Alexander Tsapkov*,
	10-40	hydroxyapatite coating on AZ31 magnesium	Timur Mukhametkaliyev,
		alloy prepared by RF-magnetron sputtering	Kozha Ahmet
			Shagabuddinov, Maria
			Surmeneva, Roman
			Surmenev and Ivan
	10.40		Shulepov
	10-40	Coffee-break	
	11-10		
6	11-10	Influence of copper on mechanical properties	Natalia Stepanova, Tatiana
	11-30	of graphitized hypereutectoid steel	Ogneva* and Aleksey
7	11-30	Dessenth of the DBC Joining Interface	Razumakov
/	11-30 11-50	Research of the DBC Joining Interface	Ivan Krasniy*, Alexandr Berkin, Grigoriy Minskiy,
	11-50		Anastasiya Denisova,
			Svetlana Kumacheva
8	11-50	Definitions sorption capacity of nanostructured	Evgeniy Boretsky, Dmitriy
0	12-10	materials for hydrogen with energy parameters	Vidyaev and Dmitriy
	12 10	of systems	Savostikov
9	12-10	Establishing The Boundaries Of Operating	Kh.M. Rakhimyanov, Yu.V.
	12-30	Parameters During Grey Cast Iron	Nikitin, A.Kh.
		Thermohardening By Mathematical Modeling	Rakhimyanov, Yu.S.
			Semenova and K.Kh
			Rakhimyanov
10	12-30	Physico-mechanical properties of Ti-Zr alloy	Anna Ivanova, Kozha
	12-50	coatings fabricated via ion-assisted arc-plasma	Akhmet Shagabuddinov*,
		deposition	Maria Surmeneva, Vladimir
		L	Shugurov, Nikolay Koval,
			Ivan Shulepov and Roman
			Surmenev
	12-50	Section closing	
	13-00		
	13-15	Lunch	
	14-15		

CHEMICAL TECHNOLOGIES

Chair: Nikolay F. Uvarov (NSTU)

Date: 01.06.2016

Venue: NSTU building V, room № 222

N₂	Time	Report	Author (*Speaker)
	14-00	Section opening	Uvarov N.F.
	14-10		
1	14-10	Electrocatalytic hydrogen evolution reaction	Tri Khoa Nguyen, Jong-Won
	14-30	based on reduced graphene oxide: Pt	Yun and Yong Soo Kim*
		nanocomposite	
2	14-30	Effect of Zeolite Modification on Mechanical	Tatyana V. Melnikova, Olga
	14-50	Properties of Epoxy Composites	B. Nazarenko*, P. M. Visakh
			and Dmitry V.Martemyanov.
3	14-50	Palladium catalyzed Synthesis of Carbazoles	Sang Kook Woo* and Deuk-
	15-10	from Arylboronic acids	Young Goo.
4	15-10	Automated analysis of chloride and nitrate ions	Anna Vtorushina, Ekaterina
	15-30	in the wastewaters by ionometry	Larionova*, Aleksandra
			Basharova and Ksenia
			Bulygina.
5	15-30	Synthesis of catalysts for the catalytic pyrolysis	Daria A. Pershina*, Maxim
	15-50	of methane	V. Popov, Eugene A.
			Maximovskiy and Gennady
			G. Kuvshinov
	15-50	Coffee-break	
	16-20		Y
6	16-20	Au-CdS-MoS ₂ Hybrids and Their Enchanced	Jong Wook Hong
	16-40	Photocatalytic Performance	
7	16-40	Plasma Chemical Etching of Silicon (Basic	Boris Bogomolov
	17-00	Technology Production of Tri-Gate and	
8	17-00	FinFET of Transistors)	Timur Multhamathalinan
0	17-00	FTIR evaluation of AZ31 magnesium alloy	Timur Mukhametkaliyev, Kozha Ahmet
	17-20	coated with hydroxyapatite after in vitro immersion studies in SBF	Shagabuddinov*, Maria
		miniersion studies in SDF	Surmenev, Alina Vladescu,
			Diana Vranceanu, Cosmin
			Cotrut and Roman Surmenev
9	17-20	Morphological effect of ZnO nanostructure	Miri Seo, Byeongsu Kim*,
	17-20	photoanode on the performance of dye-	Soon Wook Kim and Eui
	1, 10	sensitized solar cells	Jung Kim.
10	17-40	Modification of TiO_2 microsphere into N-	Balasubramaniyan
	18-00	doped graphene-N doped carbon nanoflakes/N	Rajagopalan*, Byeongsu
		doped TiO_2 microsphere for lithium battery	Kim, Sekar Sampath and Jin
		anode	Suk Chung
			~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~

Date: 02.06.2016 Venue: NSTU building V, room № 222

N⁰	Time	Report	Author (*Speaker)
	09-00	Section opening	Uvarov N.F.
	09-10		
1	09-10 09-30	Increase of the product stabilization efficiency in the middle distillate catalytic dewaxing process	Nataliya S. Belinskaya, Natalya V. Popova*, Irina Zyryanova, Evgeniya Frantsina and Emilia Ivanchina
2	09-30 09-50	Fabrication of H2SensorsBased on PdNanocrystal Morphologies-Reduced GrapheneOxideNanocompositesandTheirCharacteristics	J.H. Lee* and Gwiy Sang Chung
3	09-50 10-10	Energy Level Alignment between π -Conjugated Molecule and Gold Surface	Jaehoon Jung*, Ju-Hyung Kim and Yousoo Kim
4	10-10 10-30	Investigation of the morphology and wettability of hydroxyapatite coating deposited on the surface of AZ31 magnesium alloy	Evgenii Melnikov, Maria Surmeneva, Matthias Epple, Kateryna Loza, Mathias Ulbricht, Roman Surmenev and Mikhail Tkachev*.
5	10-30 10-50	Hybrid gel of Alginate and Polyacrylamide as an efficient binder for Graphite and Silicon/Graphite anodes of Lithium ion batteries	Bolormaa Gendensuren*, Chengxiang He and Eun-Souk Oh
	10-50 11-20	Coffee-break	
6	11-20 11-40	Boronic acid-containing molecular brushes for reversible intramolecular crosslinking	Min-Su Um and Hyung-Il Lee*.
7	11-40 12-00	Plasmonic gold nanostructure for enhanced Photoelectrochemical water splitting	Sundaram Chandrasekaran, Miri Seo*, Sui Lijun and Seung Hyun Hur.
8	12-00 12-20	Synthesis of high-purity bismuth citrate using solid bismuth oxohydroxonitrate	Ekaterina Naydenko, Alina Artamonova*, Artem Daminov and Yuri Yukhin
9	12-20 12-40	$\begin{array}{ccc} Preparation & of & Bi_2S_3 & nanoparticles & via \\ exfoliaton of solids into colloidal dispersions \end{array}$	Pavel Poltarak*, Sofya Artemkina and Vladimir Fedorov
10	12-40 13-00	The use of Pt,Fe/TiO ₂ catalysts for the protection of the environment from CO emission	Alexei Shutilov*, Roman Shutilov, Ilya Pakharukov and Galina Zenkovets
	13-15 14-15	Lunch	
11	14-30 14-50	Characterization of antibacterial polymer films based on PVA and silver nitrate	Enkhtuya Turtogtokh, Tsermaa Galya and Janbolat Ashim
12	14-50 15-10	Hydroxyapatite synthesis with ethylenediamine tetra acetate addition	Liliya Leonova* and Uliana Pavlyuk.
13	15-10 15-30	Development of gasoline blending recipes taking into account volume and composition of the involved feedstock	Elizaveta Sviridova*, Maria Kirgina and Bogdan Sakhnevich

14	15-30	Adsorption technique for the removal of nickel	Vladimir Larichkin, Galina
	15-50	from industrial sewage	Pushkareva, Taisiya
			Gavrilova* and Darya Tsitsilina
	15-50	Coffee-break	
	16-20		
15	16-20	Binder-free fabrication of carbon/graphene-	Byeongsu Kim*,
	16-40	TiO2 for Li-ion battery	Balasubramaniyan Rajagopalan,
			Sekar Sampath and Jin Suk
			Chung
16	16-40	Eco-friendly mass degradation of mixed plastic	Hui Gon Chun*, Dae Hyeon
	17-00	waste by solid catalysts into ash and diesel-like	Eom*, Young Hoon Jung and
		fuel below 200°C without creation of Dioxin	Heung Jae Jung.
17	17-00	Direct synthesis of Glycerol carbonate from	Chan Yi Park*, Huy Nguyen
	17-20	Glycerol and CO ₂ with La/Zn catalysts under	Phu, Lien Do Thi and Eun Woo
		the high pressure system	Shin.
18	17-20	Synthesis of nickel nanowires by reduction of	Olga Logutenko, Alexander
	17-30	nickel formate in polyol medium	Titkov, Alexander Vorob'yov*,
		1 2	Yurii Yukhin and Nikolai
			Lyakhov
	17-30	Section closing	
	17-40		

Date: 03.06.2016 Venue: NSTU building V, room № 222

N₂	Time	Report	Author (*Speaker)
1	09-00	Numerical Investigation of Benzene with	Elena Khlebnikova*, Elena
	09-20	Ethylene Mixing in Alkylation Technology	Ivashkina and Alexander
			Bekker.
2	09-20	Electron Transport Properties of	Vitalii A. Kuznetsov, Anatoly I.
	09-40	Polycrystalline Tungsten-Rhenium Disulphide	Romanenko, Alexander S.
			Berdinsky, Alexandra Yu.
			Ledneva, Sofya B. Artemkina
			and Vladimir E. Fedorov
	00.40		Alexander Berdinsky
3	09-40	Synthesis of Boron Carbide Fine Powder Using	Yury Krutskii, Alexander
4	10-00	Carbon Nanofibers	Bannov Yuri Krutskii
4	10-00 10-20	Synthesis of nanocrystalline powders of yttrium-doped zirconia	Alexandr Aparnev*, Lubov Afonina and Nikolai Uvarov
5	10-20	Thermoelectric properties of polycrystalline	Galina Yakovleva*, Anatoliy
5	10-20	WS2 with Nb replacement of metal atoms	Romanenko, Alexander
	10-40	w 52 with No replacement of metal atoms	Berdinsky, Vitalii Kuznetsov,
			Alexandra Ledneva and
			Vladimir Fedorov Yakovleva
			Galina
	10-40	Coffee Break	
	11-10		
6	11-00	Adsorption of Lead on Gold. Quantum	Nikolay Rogozhnikov
	11-20	Chemical Consideration	
7	11-20	Surface modification of synthetic diamond	Arina Ukhina*, Alexey Yusuf,
	11-40	with tungsten	Dina Dudina, Evgeniy Galashov
	11.40		and Boris Bokhonov
8	11-40	Investigation of the Water Solutions Softening	Mikhail Kataev, Sergey
	12-00	Dependence from the Equilibrium	Zhuravkov, Natalia Malanova
		Concentrations of Calcium Ions at Ammonium Hydroxide Use	and Ekaterina Popova*
9	12-00	Investigation of MA SHS interaction of silicon	Tatyana Grigorieva, Tatyana
7	12-00	dioxide with magnesium	Udalova, Andrey Letsko,
	12 20		Sergey Vosmerikov, Ekaterina
			Gorina*, Irina Vorsina and
			Nikolay Lyakhov
	12-20	Section closing	
	12-30		
	13-15	Lunch	
	14-15		

SECTION 2: INFORMATION AND COMMUNICATION TECHNOLOGIES

Chair: Ekaterina V. Chimitova (NSTU)

Date: 01.06.2016

Venue: NSTU building I, room № 425-1

N₂	Time	Report	Author (*Speaker)
	14-00 14-10	Section work opening	
1	14-10 14-30	DVB-T2 Channel Filters	Vladimir Razinkin, Yury Morozov* and Alexander Polovnikov
2	14-30 14-50	Multi-slot Spectrum Sensing Schedule and Transmission Energy Allocation in Cognitive Radio Networks under Secret Constraint	Hoan Tran Nhut Khai* and Koo In-Soo
3	14-50 15-10	A Carrier-based Modulation Method for Five- leg Indirect Matrix Converter fed Open-End Load with Zero Common-mode Voltage	Quoc-Hoan Tran and Hong- Hee Lee*
4	15-10 15-30	Simulation of Power Amplifiers with Memory Effect	Valentina Goychuk*, Alexandr Polovnikov, Vladimir Khrustalev and Sergey Matveev
5	15-30	Smart Campus Guide System based on	Youngdoo Lee* and In-soo
	15-50	Bluetooth Low Energy	Коо
	15-50 16-20	Coffee-break	
6	16-20 16-40	Modified Technique of FIR Filter Design by the Frequency Sampling Method	Roman Belorutsky* and Ivan Savinykh
7	16-40 17-00	The Linearly Polarized Ends-Fed Magnetic Dipole Antenna Excited by Circular Waveguide	Dmitry Buhtiyarov* and Anatoly Gorbachev
8	17-00 17-20	Study of Congestion Control for Wireless Sensor Networks based on Small User	Chen Yidong*
9	17-20 17-40	Design and Implementation of a GPS-enabled Mobile Wireless Sensor Network for Livestock Herd Tracking in Mongolian Nomadic Herding	Sung-Gi Choi*, Ganzorig Ch., Baljinnyam A. and Sarantuya D.
10	17-40 18-00	On a New Type of Attack in Wireless Sensor Networks: Depletion of Battery	Vladimir Shakhov*

Date: 01.06.2016 Venue: NSTU building I, room № 425-2

N⁰	Time	Report	Author (*Speaker)
	14-00 14-10	Section work opening	
1	14-10 14-30	Algorithm for Optical Handwritten Characters Recognition Based on Structural Components Extraction	Pavel Khaustov, Vladimir Spitsyn and Elena Maksimova*
2	14-30 14-50	Encoded Light Image Active Feature Matching Approach in Binocular Stereo Vision	Xiaoyang Yu*
3	14-50 15-10	Target Tracking Based On Object's Shape	Irina Borisova* and Grigory Yakovlev
4	15-10 15-30	Segmentation of Textured Images Described by Hierarchical Gibbs Model	Vasily Vasyukov and Anna Zaitseva*
5	15-30 15-50	Statistical detection of seismic pulses for hydraulic fracturing monitoring	Pavel I. Vaynmaster* and Eugeniy V. Rabinovich
	15-50 16-20	Coffee-break	
6	16-20 16-40	Application of the SURE model for e-self assessment of faculty members	Uranchimeg Tudevdagva* and Bayar- Erdene Lkhagvasuren
7	16-40 17-00	Complex system of developing information and communication competence	Ivan Tomilov, Alexandra Zakharova, Tatyana Chernysheva, Elena Molnina, Elena Telipenko and S.L. Min'kov
8	17-00 17-20	Data analysis of expert systems by pulse diagnosis	Mikhail G. Grif and Yumchmaa Ayush*
9	17-20 17-40	Semantic Analyses of Text to Translate to Russian Sign Language	Michael Grif and Yuliya Manueva*
10	17-40 18-00	A Case-Based Reasoning Approach with Fuzzy Linguistic Rules: Accuracy Validation and Application in Interface Design-Support Intelligent System	Ekaterina Makarova, Tatiana Avdeenko* and Maxim Bakaev

Date: 02.06.2016 Venue: NSTU building I, room № 425-1

N⁰	Time	Report	Author (*Speaker)
1	9-10 9-30	Digital Model and Calibration Algorithm of Linear Matrix Simulator	Natalia V. Belyavskaya*, Aleksey V. Kiselev and Maksim A. Stepanov
2	9-30 9-50	Design of Dual-band Yagi Antennas	Anatoly Gorbachev and Natalya Tarasenko*
3	9-50 10-10	Research of the Sign Demodulation Algorithm under the Action of High Power External Interference	Nikita Khailo*, Aleksey Vostretsov and Veniamin Bogdanovich
4	10-10 10-30	Multi-Channel Approach to the Assessment of Speech Intelligibility	Ivan Reva, Andrey Ivanov and Mariya Markova*
5	10-30 10-50	Research of the Synchronous Spectral Analysis Method	Maria Kraynyuk* and Olga Alsova
	10-50 11-20	Coffee-break	
6	11-20 11-40	Performance analysis on IPv6 transition technologies and transition method	Gereltsetseg Altangerel*, Enkhtur Tsogbaatar and Dashdorj Yamkhin
7	11-40 12-00	Two-dimensional fast Fourier transform: Batterfly in analog of Cooley-Tukey algorithm	Valeriy Tutatchikov*
8	12-00 12-20	The Analysis and Modeling of Efficiency of the Developed Telecommunication Networks on the Basis of IP PBX Asterisk Now	Tansaule Serikov, Mubarak Yakubova, Vladimir Razinkin, Ali Mekhtiev, Vyacheslav Yugay, Alexey Yurchenko, Alena Okhorzina*, Aliya Alkina and Aizada Muratova
9	12-20 12-40	Special methods of statistical information processing to solve basic problems of seismic guard system	Svetlana Filatova* and Darya Sokolova
10	12-40 13-00	Semantic-numerical approach to automatic synthesis of timeparamertized parallel programs	Konstantin Lysykh*, Gennady Polyakov, Vladimir Lysykh, Elena Tolstolujskaya and Dmitry Tolstolujsky
	13-15 14-15	Lunch	
11	14-30 14-50	The Integrated Flexible Scheduling Algorithm of Complex Product with No-Wait Constraint between Procedures	Zhi-Qiang Xie, Wen-Xiu Su, He Guo, De-Yun Chen, Yu Xin and Yu-Zheng Teng
12	14-50 15-10	Analysis and Implementation of FFmpeg Separating Technology Based on HEVC	Guangxue Yang, Shouqiang Kang and Jiawei Hu
13	15-10 15-30	Simulation of data streams in networks with multiple compound of segments	Valery Kobylyanskiy and Andrew Kurochkin*
14	15-30 15-50	Revisiting the creation of a training simulator complex based on an intelligent agent	Valeriy Khabarov and Konstantin Speshilov*

	15-50	Coffee-break	
	16-20		
15	16-20	Information Model of Decision-Making in	Julia Vladikina* and Olga
	16-40	Management Regional Tourism	Kazanskaya
		Calculation of Derivatives Fisher Information	
16	16-40	Matrix in problem of Active Identification	Vladimir M. Chubich and
10	17-00	Stochastic Linear Systems with Input Signal	Elena V. Filippova*
		Parameterization	
17	17-00	Robust parametric identification of Gaussian	Vladimir
1 /	17-00	linear discrete system based on adaptive fading	Chubich and Oksana
	17-20	Kalman filter	Chernikova*
	17-20	Optimal Parameter Estimation of Gaussian	Oksana Chernikova and
18	17-20	Linear Discrete Models in The Frequency	Kseniia Anisimova*
	17-40	Domain	Ksenna Amsiniova

Date: 02.06.2016 Venue: NSTU building I, room № 425-2

Nº Nº	Time	lding I, room № 425-2 Report	Author (*Speaker)
512	9-10	Generalizations of the Polychoric Correlation	Ekaterina Khailenko and
1	9-30	Approach for Analyzing Survey Data	Anastasiia Yu. Timofeeva*
2	9-30	Huber M-Estimator Based LTE Robust	
2	9-50	Detector	Mohamed Essai Ali*
3	9-50	Hill's Estimator of the Heavy Tail Index of	
5	10-10	Stable Distribution	Hailong Chen*
	10-10	Binary Choice Modelling Based on the Stable	Vladimir Timofeev and
4	10-10	Distribution	Anastasiia Sanina*
	10-30	A Comparison of Some Methods for Training	Alexander Popov, Tatyana
5	10-30	Hidden Markov Models on Sequences with	Gultyaeva and Vadim
5	10-50	-	Uvarov*
	10-50	Missing Observations	Ovarov.
	10-30	Coffee-break	
	11-20	The construction of the reduct recreasion	
6	11-20	The construction of the robust regression	Alexander Popov and
0	11-40	models with the LS-SVM method using a non-	Sharaf Boboev*
	11-40	quadratic loss function	
7	11-40	Tight Risk Bounds for Histogram Classifier	Victor Nedel'Ko*
	12-00	Developing the risk classification based on	
8	12-00		Vladislav Shchekoldin*
0	12-20	ABC-analysis of possible damage and its probability	Viauisiav Shenekolulii
9	12-20	Method for Estimating Origin-Destination	Valeriy Khabarov and
9	12-20	Matrices Using Markov Models	Alexandr Tesselkin*
	12-40	The Wiener Degradation Model in Reliability	Evgeniya Chetvertakova*
10	12-40	Analysis	and Ekaterina Chimitova
	13-00	Anarysis	and Ekaterina Chimitova
	13-13	Lunch	
	14-13		Mikhail
11	14-30	Permutation Test Implementation for Testing	Grishchenko*, Aleksandr
11	14-50	Set of Genetic Hypotheses Using GPU	Yakimenko and Marat
	14-50	Set of Genetic Hypotheses Using GI U	Khairetdinov
12	14-50	Criteria of Test against Absence of Trend in	Irina Veretelnikova* and
12	15-10	Dispersion Characteristics	Boris Lemeshko
		•	Petr Philonenko*, Sergey
13	15-10	The limit distribution of the maximum value	Postovalov and Artem
15	15-30	test statistic in the general case	Kovalevskiy
14	15-30	A power comparison of the association tests for	Sergey Postovalov and R.
	15-50	genome-wide association studies	Wyler Metge*
	15-50		
	16-20	Coffee-break	
15	16-20	The comparative analysis of some uniformity	Pavel Blinov* and Boris
	16-40	tests	Lemeshko
		A goodness-of-fit test based on the Beran	Victor Demin* and
		estimator	Ekaterina Chimitova
	16-40	LiTiS: the Software for Statistical Lifetime	Mariia Semenova* and
16			Mariia Semenova* and
16 17	16-40 17-00 17-00	LiTiS: the Software for Statistical Lifetime Data Analysis About properties and power of classical tests of	

Date: 03.06.2016 Venue: NSTU building I, room № 425-1

N⁰	Time	Report	Author (*Speaker)
1	9-00 9-20	Finite Element Code for 3D Numerical Analysis of Thermoelastic Stresses in Nose Caps of Hypersonic Flight Vehicles	Yuri G. Soloveichik, Marina G. Persova, Tatyana B. Epanchintseva, Dmitry S. Kiselev, Denis V. Vagin* and Vasiliy K. Belov
2	9-20 9-40	Software and Its New Possibilities for 3D Processing of Marine Electrical Survey Data	Marina G. Persova*, Yuri G. Soloveichik, Denis V. Vagin, Yulia I. Koshkina and Evgenia I. Simon
3	9-40 10-00	Finite Element Meshing for Calculating the Stress-Strain Behavior of Structures with Stress-Raisers	Marina G. Persova, Denis V. Vagin and Mikhail V. Abramov*
4	10-00 10-20	Intelligent Scheduler for Solution of Forward and Inverse Geoelectrical Problems	Marina G. Persova, Yuri G. Soloveichik, Yulia I. Koshkina, Olga S. Trubacheva, Denis V. Vagin* and Petr A. Domnikov
5	10-20 10-40	«Floating Dipoles» Method for Magnetic Survey Data Processing	Yuri G. Soloveichik, Marina G. Persova, Denis V. Vagin, Dmitry S. Kiselev* and Aleksandr G. Zadorozhny
6	10-40 11-00	Numerical simulations of astrophysical problems on massively parallel supercomputer	Igor Kulikov*, Igor Chernykh, Boris Glinsky, Vladislav Nenashev and Alexey Shmelev
	11-00 11-30	Coffee-break	
7	11-30 11-50	Numerical Recovery of Function in a Strip from Given Integral Data on Linear Manifolds	Akbar Begmatov* and Gafur Djaykov
8	11-50 12-10	Inversion of X-ray Transforms with Incomplete Data in n-dimensional Space	Akbar Begmatov*
9	12-10 12-30	Calculating the Stress-Strain Behavior of Composite-made Structures with Cylindrical and Conical Layers	Yuri G. Soloveichik, Tatyana B. Epanchintseva, Dmitry S. Kiselev* and Yuri V. Trakimus
10	12-30 12-50	Reducing the Computational Domain Size for Three-Dimensional Magnetotelluric Modelling	Petr Domnikov*
11	12-50 13-10	Finite Element Formulation with Coupled Vector-Scalar Magnetic Potentials for Eddy Current Problems	Mikhail Royak, Ilya Stupakov, Natalia Kondratyeva* and Evgeny Antokhin
	13-15 14-15	Lunch	

SECTION 3: MECHATRONICS, ELECTRICAL ENGINEERING AND POWER ELECTRONICS

Chair: Nikolay I. Schurov (NSTU)

Date: 01.06.2016

Venue: NSTU building II, room №402

N⁰	Time	Report	Author (*Speaker)
	14-00	Section work opening	` `
	14-10		
1	14-10	N-phase Loads Agreement with Three-phase	Pavel Morozov and Yury
	14-25	Grids by Transformers with Power Equalizers	Morozov
2	14-25	Rotor position sensor's magnetic system of the	Alexsander Pristup, Olga
	14-40	PMS machine	Gubareva and Elizaveta
			Pavlovskaya
3	14-40	Design of an Electric Vehicle Battery Box	Xiaogang Wu, Jing Han, N.
	14-55	Based on Electric-Thermal Model	P Demenkov and Yexin
			Tian
4	14-55	The Quaternion Model Of Doubly-Fed	Oleg Nos
	15-10	Induction Motor	C .
5	15-10	The calculation features of the electrical energy	Anna Kulekina and Valeriy
	15-25	storage devices parameters in transport	Biryukov
6	15-25	Synthesis of automatic control system of the	Ilya Dymov and Denis
	15-40	rotor axial displacement of the mechatronic	Kotin
		motion module	
7	15-40	The Analysis of Influence Bearing Faults on	Nail Safin, Vladimir Prakht,
	15-55	the Induction Motor Efficiency and Diagnosis	Vladimir Dmitrievskii and
		Study	Sergey Sarapulov
8	15-55	The analysis of reactive power in metro	Andrey Petrov and
	16-10		Nadezhda Logutenko
	16-10	Coffee-break	
	16-40		
9	16-40	Advanced Induction Coils for Heating Steel	Victor Demidovich,
	16-55	Products and their Computer	Anatoly Mikhlyuk, Inna
			Barankova and Uliana
			Mikhailova
10	16-55	Advanced Electrothermal 3D-Model of the	Victor Demidovich,
	17-10	Continuous Induction Heaters	Vladislav Andrushkevich,
			Anatoly Mikhlyuk and Irina
			Rastvorova
11	17-10	Experimental research of physical model of the	Maxim Fedin, Alexander
	17-25	induction crucible furnace and the development	Kuvaldin, Alexei Kuleshov
		of control system	and Ivan Generalov
12	17-25	The enhancement of electric mode in the	Elena V. Ptitsyna, Alexandr
	17-40	installations with dark infrared radiators and in	B. Kuvaldin and Dmitry
		the gas discharge installations	Ptitsyn
13	17-40	Development of mathematical model for	Alexander Kuvaldin,
	17-55	calculating electric and power characteristics of	Maxim Fedin, Elena
		induction crucible furnace with lumpy charge	Kasatkina, Oleg Polyakov
		on using finite elements method	and Alexei Kuleshov
14	17-55	Development of arc plasmatrons with long	P.V. Domarov, A.S.
	18-10	service life of electrodes	Anshakov, S.I Radko and
			V.A. Faleev

Time Report Author (*Speaker) № Lyudmila Neyman and 09-00 model 1 Dinamic of a vibratory 09-15 electromechanical system with spring linkage Vladimir Neyman 2 09-15 Construction Types of a Linear Vladimir Neyman and Olga New 09-30 Electromagnetic Motor with the Active Teeth-Rogova Slot Zone 3 09-30 New Linear Synchronous Neyman Lyudmila, Schurov Cycle 09-45 Electromagnetic Machines with Inertial Nikolay and Evelina Langeman Reverse 4 09-45 Effect of electric field on oxidation Andrey V. Shishkin, of zicronium by H2O and H2O/CO2 supercritical 10-00 Dmitriy Yu. Dubov, Mikhail fluids Ya. Sokol, Oxana N. Fedyaeva and Anatoliy A. Vostrikov 5 10-00 Evaluation of energy recuperation efficiency Egor Spiridonov and Mikhail Yaroslavtsev 10-15 for operating conditions of city electric transport Evaluation of Hybrid Electric Bus Energy Vladimir N. Anosov and 10-15 6 10-30 Storage Device Capacity Mikhail V. Yaroslavtsev Coffee-break 10-30 11-00 7 11-00 Toward the issue of feedback systems of Mikhail Gurov and Elena 11-15 frequency standards Gurova Bidirectional Interleaved DC/DC Converter for 8 11-15 Ahmed Omara and Michael 11-30 Electric Vehicle Application Sleptsov 9 11-30 Development prospects of single-phase zone Vladlen Ivanov, Sergei 11-45 rectifiers Myatez, Andrei Kapustin and Irina Alekseeva 10 11-45 Application of electro corona discharge for the Boris Malozyomov and 12-00 treatment of seeds before sowing Eugenij Porsev Ruslan Ufa, Aleksey 11 12-00 Development of Hybrid Model of STATCOM Vasilev, Alexander Gusev 12-15 and Aleksey Suvorov 12 12-15 Fault-tolerant control algorithms of switched-Ivan Rozayev and Georgy 12-30 reluctance motor drive in open-phase modes Odnokopylov Section work closing

Date: 02.06.2016 Venue: NSTU building II, room №402

Date: 02.06.2016 Venue: NSTU building II, room №402

N⁰	Time	Report	Author (*Speaker)
1	14-30	The formation of energy-efficient control of a	Genadiy Simakov, Yury
	14-45	high-speed ac electric drive	Filushov and Vladislav
			Filushov
2	14-45	The practical realization of robustness for LED	Svetlana Grigoryeva,
	15-00	lighting control systems	Alexander Baklanov and
-			Dmitriy Titov
3	15-00	The Optimization of the Permanent Magnet	Sergey Leonov, Eugenie
	15-15	Synchronous Motor Pole System Geometric	Grishanov, Danil Fedorov
4	15.15	Characteristics	and Igor Rusakov
4	15-15	Experience and modern technology of the ore-	Alelsandr Aliferov, Roman
	15-30	thermal furnace short network designing	Bikeev, Lyudmila Goreva
5	15-30	Energetic and thermal performance of	and Vitaliy Zakharchuk A. I. Aliferov, R. A. Bikeev,
3	15-30	Energetic and thermal performance of induction heating system with permanent	D. S. Vlasov, V. A.
	15-45	magnets	Promzelev, A. E. Morev
		magnets	and S. Lupi
6	15-45	Pulse-width Modulation of Base Vectors in	Aleksandr Aliferov,
0	16-00	Transistor Invertor	Aleksandr Kislov, Vadim
			Markovskiy, Bayrgan
			Shapkenov and Argun
			Kaidar
7	16-00	Automation of the self-running calculation of	Andrey Shevchenko and
	16-15	large asynchronous machines based on use of	Zoya Temlyakova
		the JavaScript programming language	
8	16-15	Numerical simulation of the equalizing	Georgy Vyaltsev and
	16-30	currents in permanent magnet machines with	Alexander Shevchenko
	16.00	fractional slot concentrated windings	
	16-30	Coffee-break	
9	<u>17-00</u> 17-00	Performance of Doubly-Feed Induction	Ahmed Diab, Salah
フ	17-00	Generator Based Wind Turbine Using Adaptive	
	17-13	Neuro-Fuzzy Inference System	Elnaghi and Kotin Denis
10	17-15	Electromagnetic torque os sinchronous reactive	Aleksander Shevchencko
10	17-30	motor with harmonic rotor	and Ludmila Shevchencko
11	17-30	Definition of Contributions of Nonlinear	Gennadiy Zinoviev
	17-45	Consumers in Total Distortion of Power Line	5
		Current	
		Section work closing	

SECTION 4: ROBOTICS AND AUTOMATION

ROBOTICS AND CONTROL

Chair: Vadim A. Zhmud (NSTU)

Date: 01.06.2016 Venue: NSTU building VII, room № 407

N⁰	Time	Report	Author (*Speaker)
	14-00	Section work opening	
	14-10		
1	14-10	Algebraic Design Of LTI Control Systems	Alexander Chekhonadskikh
	14-30	Using Spaced Pole Localization (NSTU)	and Alexander Voevoda.
2	14-30	The Development and Application of	Fusheng Zhang, Jiazhong
	14-50	Biological Search and Rescue Robots System	Xu and Gordon Zheng.
		(HUST)	
3	14-50	State feedback control simulation of	Batmunkh Amar and
	15-10	quadcopter model (MUST)	Tengis Tserendondog.
4	15-30	Model Predictive Control of Nonlinear Drum	Damiran Ulemj, Fu Caifen
	15-50	Boiler (MUST)	and Tan Wen.
5	15-50	State Feedback Control of Unbalanced Seesaw	Tengis Tserendondog,
	16-10	(MUST)	Byambajav Ragchaa,
			Luubaatar Badarch and
			Batmunkh Amar.
	16-10	Coffee-break	
	16-40		
6	16-40	Cascaded extremum seeking system design	Dmitry Suvorov and Galina
	17-00	with sliding modes organization (NSTU)	Frantsuzova.
7	17-00	Anti-sway Tracking Control for an Overhead	Natalia S. Rogova and
	17-20	Crane via Singular Perturbation Technique	Valery D. Yurkevich.
		(NSTU)	
8	17-20	Experimental Study of Strength Testing Drive	Alexander Laperdin and
	17-40	Control System for Avionic Structures (NSTU)	Valery Yurkevich.
9	17-40	Investigation of Compensation and Other	Vadim Zhmud, Vladimir
	18-00	Methods for Controlling of Oscillating Objects	Semibalamut and Lubomir
		(NSTU)	Dimitrov.
10	18-00	Designing and Research of the Real Sliding	Galina Sablina and Andrey
	18-20	Mode in the Inverted Pendulum Modelling	Sazhin.
		System (NSTU)	
	18-20	Section work closing	
	18-35		

MEASURING, IDENTIFICATION AND HEURISTICS

Date: 02.06.2016 Venue: NSTU building VII, room № 407

N⁰	Time	Report	Author (*Speaker)
	14-00	Section work opening	
	14-10		
1	14-10	Development of Hardware-software Complex	Ivan Reva, Andrey Ivanov
	14-30	forAutomatizedCompromisingElectromagnetic Emanation Search (NSTU)	and Yaroslav Baryshnikov.
2	14-30	Uncertain T-S fuzzy system guaranteed	Ling Huang, Hengyan
	14-50	performance tracking control (HUST)	Zhang, Wenbo Xie and Chong Zhang.
3	14-50	Preprocessing techniques for daily healthcare	Amartuvshin Togooch,
	15-10	device using SHIMMERTM wireless sensor	Erdenechimeg
		platform (MUST)	Damdinsuren, Nergui
			Chuluunbaatar,
			Tumenjargal Enkhbaatar
			and Enkhzul Doopalam.
4	15-30	Model-Based Design Using Matlab/Labview in	Erdenechimeg
	15-50	Industrial Automation (MUST)	Damdinsuren.
5	15-50	A Model of Spike Neuron Oriented to	Andrey Gavrilov, Valeriy
	16-10	Hardware Implementation (NSTU)	Kangler, Mikhail Katomin
			and Konstantin Panchenko.
	16-10	Coffee-break	
	16-40		
6	16-40	Determination of complex amplitudes of the	Guzhov Vladimir, Sergey
	17-00	reference and subject the wave fields on	Ilinykh, Ilya Marchenko
_		interference patterns (NSTU)	and Victor Emelyanov.
7	17-00	Eliminating the effect of non-linear distortion	Guzhov Vladimir, Sergey
	17-20	of profile fringes for structured illumination	Ilinykh, Ilya Marchenko
0	17.00	method (NSTU)	and Victor Emelyanov.
8	17-20	The Parameters Vector Estimation in the	Galina Troshina and
	17-40	Steady State for the Linear Dynamic Systems (NSTU)	Alexander Voevoda
9	17-40	The Active Identification of Parameters for the	-
	18-00	Unstable Object (NSTU)	Voevoda and Kurbonmurod Bobobekov.
10	18-00	Common discussion and opinion exchange	
	18-20		
	18-20	Section work closing	
	18-35		

SECTION 5: POWER ENGINEERING AND RENEWABLE ENERGY TECHNOLOGIES

Chair: Felix L. Byk (NSTU), Co-chair: Anastasia G. Rusina (NSTU)

Date: 01.06.2016

Venue: NSTU building II, room № 308

N⁰	Time	Report	Author (*Speaker)
	14.00 – 14.10	Section Work Opening	
1	14.10- 14.20	Factor Analysis Method Of Electric Network System's Load	Uuganbayar Sodnomdorj
2	14.20- 14.30	Choosing The 110 Kv Power Line Cross Section By The Method Of Current Economic Intervals In Mongolia	Batbaatar Rentsendorj
3	14.30- 14.40	Methods To Convert Electrical Networks And Load Shifting From The Center Of The Wye (Star)	Nomuundari Battulga
4	14.40- 14.50	Algorithm For Power And Energy Losses In 0.4 Kv Electrical Networks Of Mongolia	Jigjidsuren Namsraijav
5	14.50- 15.00	Numerical And Experimental Investigation Of Temperature Distribution Of A Steel Plate By Preheating From Gas Torch With Multi-Jet Flame	Geun Sik Lee
6	15.00- 15.10	Hydraulics Application Of The Free-Surface Lattice Boltzmann Method	Nasanbayar Narantsogt
7	15.10- 15.20	Substitution Effect Of Olivine Structured Cathode Materials For Lithium Ion Batteries	Youngil Lee
8	15.20- 15.30	On The Issue Of Modeling Non-Sinusoidal Modes Of Distribution Networks	Leonid Bulyga
9	15.30- 15.40	Study Of Impact Of Relay Protections Opearation On Transients In Electric Power Systems Using Mathematical Simulation	Mikhail Andreev
10	15.40- 15.50	Investigations Of A Magnetic Gear For Application In Wind Turbines	Andrey Achitaev
11	15.50- 16.00	Optimization Compensating Devices In The Power Supply Systems Using Population Algorithms	Uyangasaikhan Bumtsend
	16.00– 16.30	Coffee Break	Café on second floor of II building
12	16.40- 16.50	Application Of The Probabilistic Technologies For Purposes Of Choice And Substantiation Of Power System Equipment	Lyudmila Krivova
13	16.50- 17.00	Management Of Power Supply Reliability	Lyudmila Myshkina
14	17.00- 17.10	Universal Mathematical Model Of Three-Phase Electrical Transmission Lines	Aleksey Suvorov
15	17.10- 17.20	Development Of Algorithm Of Dispatching Personnel's Possible Actions In Various Regime Situations In Electric Power Systems	Nikolay Ruban

16	17.20- 17.30	Features Of Financing Innovative Renewable Energy Development	Nadezhda Kulikova
17	17.30- 17.40	INVESTIGATION OF OVER-VOLTAGES CAUSED BY THE SINGLE PHASE GROUNDING FAULT IN 6-10kv MEDIUM VOLTAGE DISTRIBUTION	Sodbayar Yadmaa
18	17.40- 17.50	Study Of The Influence Of Heating Rate On The Process Of Grate Gasification Of Balakhta And Osinnikovsky Coal Deposits.	Anton Tolokolnikov
19	17.50 – 18.00	Numerical Analysis Of The Underground Coal Gasification Syngas Composition In Dependance To Supplied Oxidizer Properties	Alexander Tarazanov

Date: 02.06.2016 Venue: NSTU building II, room № 308

N⁰	Time	Report	Author (*Speaker)
	10.30 -	Coffee Break	
	11.00		
1	11.10 -	Applying Of The Electrical Equivalent Method	Yana Frolova
-	11.20	For Multi-Objective Power Flow Optimization	
2	11.20-	Controlled Vacuum 6 (10) Kv Circuit Breaker	Dmitry Shevtsov
	11.30	Model	
	11.30-	Effects Of Systemic Factors On The Optimal	
3	11.40	Efficiency Of Thermal Power Plants In The	Alina Frantseva
		System Of Combined Heat Supply	
4	11.40-	Rapid Assessment Of The Operational Status	Vladimir Levin
	11.50	Of The Oil-Filled Transformers	
5	11.50-	The Method Of Adequacy Estimation	Margarita Nizhnikova
	12.00	Developed For The Electric Power System	
(12.10-	Methods Of Balance Matching To Refine The	Unite Oracle in a ilegen
6	12.20	Initial Information As Applied To Thermal	Uriy Ovchinnikov
		Power Plant	
7	12.20-	Experimental Estimation Of Surface Heat	Denis Sinelnikov
/	12.30	Transfer Coefficient For Air-Cooled Internal	Denis Sineinikov
	12.30-	Combustion Engine	
8	12.30- 12.40	Method Of Defining The Operational Regime Of Power Plants Under Market Conditions	Batzaya Bat-Ochir
	12.40		
9	12.40-	Cogeneration Unit Based On Air-Cooled Internal Combustion Engine	Denis Sinelnikov
	12.30	Comparison Of Regression And Neural	
10	12.50-	Network Approaches To Forecast Daily Power	Dmitriy Kryukov
10	13.00	Consumption	
	13.15 –		
	14.15	Lunch	
	14.30-	Tasks Of Optimal Performance Of	
11	14.40	Hydroelectric In Power System	Ekaterina Sovban
		Modern State Problems And Prospects Of	
12	14.40-	Development Of The Electric Power System	Sherkhon Sultonov
	14.50	Of Tajikistan	
10	14.50-	Mathematical Model Of Francis Turbines For	
13	15.00	Small Hydropower Plants	Sherkhon Sultonov
		Development Of The Intelligent Single Phase-	
14	15.00-	To-Ground-Fault Current Compensation	Aleksei Kuzmin
	15.10	System For 6-35 Kv Networks	
15	15.10-	Application Of Rank Models For Structural	Anton V-1:
15	15.20	Forecasting	Anton Kalinin
	15 00	Control Of Three-Phase Converter For Ground	
16	15.20- 15.30	Fault Capacitive Current Compensation In	Pavel Smirnov
	15.50	Ungrounded Distribution Networks	
	15.30 -	Coffee Break	
	16.00		
17	16.00-	Improving The Accuracy Of Information	Anton Safronov
1/	16.10	Support Of The Power Plant	AIRON Sanonov

18	16.10- 16.20	Key Directions Of Increasing Energy Efficiency Of Heat Supply Systems	Evgeniy Kulak
10	16.20-	The Photovoltaic Solar Concentrator System	Alena Oldearrian
19	16.30	Cooled By A Heat Sink	Alena Okhorzina
	16.30-	Optimal Control Law For Minimization Of	
20	16.40	Active Power Overshoot Due To Water	Yury Kazantsev
	10.40	Hammer Effect In A Hydro Unit	
21	16.40-	Protection Of Cables With XLPE Insulation	Sergey Korobeynikov
21	16.50	From High-Frequency Overvoltages	
22	16.50-	The Analysis Of Moistening Processes Of An	Alexandr Obsyannikov
	17.00	Insulator Surface	Alexandr Obsyannikov
23	17.00-	Prerequisites To The Catalytic Thermal	Zhanibek Oraz
23	17.10	Biomass Conversion Into Syngas	
	17.20-	Section Work Closing	Felix Byk
	17.30	Section work Closing	ГСПА ВУК

Date: 03.06.2016 Venue: NSTU building II, room № 308

Second international seminar

"The development of information technology in the electric power industry"

N⁰	Time	Report	Author (*Speaker)
	10.30 – 11.00	Coffee Break	Café on second floor of II building
	11.00 – 11.10	Opening second international seminar	Anastasia Rusina
1	11.10- 11.25	Operation modes of power plants in market conditions	Batzaya Bat-Ochir
2	11.25- 11.40	The sustainable development of energy in Tajikistan through complex energy potential of renewable energy sources	Yormakhmadzoda Bakhtiyor
3	11.40- 11.55	Structure oriented evaluation model, theory and application	Uranchimeg Tudevdagva
4	11.55- 12.10	The electrification of international transport railway corridor from Asia to Europe, as a way of power system sustainable development of Mongolia	Uyangasaikhan Bumtsend
5	12.10- 12.25	The development direction of voltage regulation systems in distributive electric networks	Nurlan Kardjubaev
6	12.25- 12.40	The consideration of development possibilities of medical diagnostic expert system of pulse diagnosis	Yumchmaa Ayush
7	12.40- 12.55	The specification and analysis of transients in Electric Power Systems	Yuri Shornikov
8	12.55- 13.10	Seminar work closing	Anastasia Rusina
	13.15 – 14.15	Lunch	
	14.20- 15.30	Presentation of seminar certificates and diplomas. Discussion.	
	15.30 – 16.00	Coffee Break	
	16.00- 17.20	Excursion to the laboratories of the Faculty of Power Engineering	The staff of the Faculty of Power Engineering

SECTION 6: ECOLOGY, ENVIRONMENT ENGINEERING, CIVIL ENGINEERING

Chair: Sergey M. Korobeynikov (NSTU)

Date: 01.06.2016

Venue: NSTU building II, room № 513

N⁰	Time	Report	Author (*Speaker)
	14-00	Section work opening	
	14-10		
1	14-10	Numerical Solution of Crown Forest Fire	Valeriy Perminov and
	14-30	Initiation and Spread Problem	Soprunenko Elina.
2	14-30	Forming of safe urban environment based on	Anastasiia Sheveleva and Boris
	14-50	external and internal factors	Stepanov.
2	14.50		
3	14-50	Development of modern methods of staff	Marina Legan and Olesya
	15-10	training program to reduce the level accidents	Afanaseva
4	15-30	Possibility of Registration of Changes in the	Madina Akramova, Sergey
	15-50	Human Body at Influence of Harmful	Korobeynikov and Behruz
	1 0	Production Factors by Means of the Polygraph	Akramov
5	15-50	Molecular study result of Bacillus thuringiensis	Nandinerdene Baasandorj,
	16-10		Delgemaa Sovd, Dulguun
			Dorjgotov and Purevdorj
	1 - 10		Dambadarjaa
	16-10	Coffee-break	
	16-40		
6	16-40	Enhanced capacitance of three dimensional	Miri Seo, Yiseul Song, Seung
	17-00	graphene oxide and silver nanowire composite	Hyun Hur and Sui Lijun
7	17-00	Algorithm of a Chronological Series	P.A. Akulov, V.A.
	17-20	Synchronization	Tartakovsky, Yu.V. Volkov
			and D. A. Kalashnikova.
8	17-20	Artesian water wells for air cooling system of	M. Guselnikov, Yu.
	17-40	premisis	Anishchenko, M. Gulyaev and
			A. Zerkalova.
9	17-40	Modeling The Processes Of Dust-Gas	Bagdat Azamatov and Andrey
	18-00	Collection For Thermal Power Plant In The	Kvassov
		Design With Variable Geometry	
10	18-00	Discussion	
	18-20		
	18-20	Section work closing	
	18-35		

Date: 02.06.2016 Venue: NSTU building II, room № 513

N⁰	Time	Report	Author (*Speaker)
	9-00	Section work opening	
	9-10		
1	9-10	Result On Settlement Of Frozen Clay Soil	Altantsetseg Jamts and
	9-30	After Thawing	Dashjamts Dalai
2	9-30	Destruction of Organic Compounds in Gaseous	<u>Seda Magomadova</u> , Ludmila
	9-50	and Liquid Media in Plasma Microwave	Shiyan, Alexey Zherlitsyn and
		Discharge	Vladimir Shiyan
3	9-50	Gassing in Transformer Oil at Low and High	A. Ridel, S. Korobeynikov, A.
	10-10	Frequency Vibration	Bychkov, M. Anikeeva
4	10-10	Simulation of the spatial pollutant jets exiting	Tatiana Korotaeva and Anna
	10-30	from the aircraft engine nozzles	Turchinovich.
5	10-30	Vibration Impact of High-Speed Rail Transport	Chang-Myung Lee and
	10-50	to Environment: Evaluations of Gain and	Vladimir Goverdovskiy.
		Protection	
	10-50	Coffee-break	
	11-20		
6	11-20	Geometric Forecast Of Defining Deposit	G. Dyachenko and <u>G. Aseev</u> .
	11-40		
7	11-40	Results of the mineralogical and chemical	Dolgorjav Rentsendavaa and
	12-00	study on the raw zeolites from the "Urgun"	Saran Galdansanbuu.
		deposit	
8	12-00	Using the Pulsed Electrical Discharge to Obtain	<u>K. Machekhina,</u> L. Shiyan, T.
	12-20	Drinking Water from Groundwater sources of	Yurmazova, G. Lobanova, L.
		Western Siberia with Humic Substances	Kostikova.
9	12-20	Composite building materials on the basis of	<u>Anna Poltoranina</u> , Irina
	12-40	technogenic raw materials	Frolova, Natalya Usoltseva
	10 10		and Alesya Dolinina
10	12-40	Engineering Solutions for protection of	Dashjamts Dalai and
	13-00	underground part of Buildings in against	Altantsetseg Jamts. M.
		ground water at the Ulaanbaatar City,	
	10.15	Mongolia	
	13-15	Lunch	
	14-15		

1	14-10	The Role of Human Factor in Ensuring the	Yuriy V. Konovalov and
	14-30	Safety of Electric Power Objects after their	Natalia V. Kuznetsova.
		Intellectualization	
2	14-30	Some Ways to Develop Medical History using	Jamsran Ganchimeg and
	14-50	GS1 in Mongolian hospitals	Lkhagvasuren Amartuvshin
3	14-50	Circular Fuel Storage Tank Under Earthquake	Khishigdalai Ch, Dashpurev
	15-10	Influence	Sh and Urgamalsuvd
			Dashdondov
4	15-30	The image of a large city compared to an ideal	Olga E. Tsygankova and Olga
	15-50	"dream city" being perceived by inhabitants of	S. Shemelina
		a large city and a small town	

5	15-50	Study on Impact of Wood Processing	Bo Wang, Qiunan Zhang,
	16-10	Enterprises' Safety Climate on Employees'	Dawei Sun and Yongqing
		Safety Behavior	Jiang.
	16-10	Coffee-break	
	16-40		
6	16-40	Investigation Of Biochemical Properties And	Bolortsetseg Nyamdorj, Anna
	17-00	Possibility Of Using Food Of Germinated Sea	Zolotareva and Badamtsetseg
		Buckthorn Seed	Soyollkham.
7	17-00	Traditional Bone Broth Benefits And Uses	Amarjargal Gombo and
	17-20		Odbayar Tseye-Oidov
8	17-20	Evaluation of a Fermented Oat Beverage	Tsetsegmaa Ravjindamba and
	17-40		Tsetsegee Dorj
9	17-40	Social Factors Based Mathematic Modeling Of	Khaliunaa Batmunkh
	18-00	A Big City Road Transportation	
10	18-00	Use of peptide motif recognizing a target	Ji-Yeon Hong, Yue Xu and Ik-
	18-20	chemical for the application for biological	Keun Yoo.
		adsorbent	
	18-20	Section work closing	
	18-35		

SECTION 7: HUMANITARIAN AND ECONOMIC ASPECTS OF ENGINEERING SCIENCES

ECONOMIC ASPECTS OF ENGINEERING SCIENCES

Chair: Marina V. Khayrullina (NSTU), co-chair: Elena A. Melekhina (NSTU)

Date: 01.06.2016

Venue: NSTU building V, room № 302

N⁰	Time	Report	Author (*Speaker)
1	14-10		Tsetsgee Bayasgalan, Burmaa
	14-30	Business Model of Smart City	Myagmar*, Baldangombo
			Osor
2	14-30	A study of the possibilities to develop non-cash	Lkhagvasuren Amartuvshin*
	14-50	payments in Mongolia	and Khosbayar Amgalan
3	14-50	Combination of immunotherapy and	Byung-Sam Kim* and Seong-
	15-10	chemotherapy for incurable cancer	A Ju
4	15-30	Managing the Introduction of Innovative	Irina Klavsuts*, George Rusin
	15-50	Energy Saving Technology of Demand Side	and Dmitry Klavsuts
		Management in Regions of the World	
5	15-50	Approaches to forming and evaluating the	
	16-10	effectiveness of multisectoral innovation	Oleg Lyamzin*
		associations (innovation clusters)	
	16-10	Coffee-break	
	16-40	Conce-break	
6	16-40	Research on Garch-Copula model in the field	Hailong Chen*
	17-00	of finance	
7	17-00	Towards the Broblem of Creation of Socielly	Pavel Baranov*, Oksana
	17-20	Towards the Problem of Creation of Socially Oriented Corporate Reports	Chernikova, Olga Grinkevich,
		Onemed Corporate Reports	Alexey Ivannikov
8	17-20	Assessment of investment alimete for verture	Mildail Maglary Eleve
	17-40	Assessment of investment climate for venture	Mikhail Maslov*, Elena
		capital in Russia	Muzyko
9	17-40	The impact of the technological limitations on	Natalia V. Bozo
	18-00	the productivity of sectors of Russian economy	Ivalalla V. DUZU

HUMANITARIAN ASPECTS OF ENGINEERING SCIENCES

Chair: Vladimir I. Ignatyev (NSTU), co-chair: Marina A. Ivleva (NSTU)

Date: 02.06.2016

Venue: NSTU building V, room № 302

N⁰	Time	Report	Author (*Speaker)
1.	09-10	Designing the topological image of a	Mark Romm* and Raisa
	09-30	socionetworking actor with a complex structure	Zayakina
2.	09-30 09-50	Educational cluster development for student engineering competencies progression in case of Tomsk Polytechnic University	Sergei V. Krivykh, Konstantin V. Buvakov, Oxana A. Kazakova and Elena S. Vorontsova*
3.	09-50 10-10	The Relationships Between Culture and Service Quality Perceptions	Ariunaa Khashkhuu
4.	10-10 10-30	"Nano-Bio-Info-Cogno-"Machine"" in information- quantum resonance of social space	Vladimir I. Ignatyev* and Evgeniya V. Komf
	10-30 11-00	Coffee Break	
5.	11-00 11-20	Authentic Task as a means of Learning a Foreign Language	Elena Melekhina*
6.	11-20 11-40	The Definite Multitude vs the Indefinite Multitude: Some Aspects of Interaction	Marina Ivleva* and Yelena Fedyaeva
7.	11-40 12-00	Application of Problem-Based Learning Technology in Technical Education	Yevgeny Turlo and Alexandra Alyabieva*
8.	12-00 12-20	Mental Health Predicts Students' Creative Achievements in Technical University	Anastasia Ilinykh*
9.	12-20 12-40	Engineering education in Russia: view of a problem and principal trends	Boris Fedorov, Andrey Syrbakov* and Marina Korchuganova
10.	12-40 13-00	Working condition of teachers in Mongolia: A Comparison of Private vs. State University	Ambarish Pandey* and Undram Sengee
	13-00 14-15	Lunch	

HUMANITARIAN AND ECONOMIC ASPECTS OF ENGINEERING SCIENCES

Chair: Marina V. Khayrullina M. (NSTU), co-chair: Elena A. Melekhina (NSTU)

Date: 02.06.2016

Venue: NSTU building VI room № 803

N⁰	Time	Report	Author (*Speaker)
1.	09-10 09-30	Cellular Automata for the Spreading of an Innovation in Socio-Economic Systems	Vladimir Petrov*, Igor Korel, Natalya Kafidova
2.	09-30 09-50	Development of an accounting model for intellectual property commercialization	Elena Khomenko*
3.	09-50 10-10	Current Trends in Automating Evaluation of Website Usability	Maxim Bakaev*, Tamara Mamysheva and Martin Gaedke
4.	10-10 10-30	The effectiveness of information and communication technologies in the educational process	Polina Ikonnikova*, Sergey Lavrinenko
	10-30 11-00	Coffee Break	
5.	11-00 11-20	Using Benchmarking to Organize and Manage E- Business Website	Vladimir Khvorostov*, Galina Kurcheeva
6.	11-20 11-40	A computerized cognitive test battery	Olga Razumnikova*, Maksim Savinykh, Roman Suslov and Roman Petrov
7.	11-40 12-00	Optimization of Multi-Educational Learning Paths	Liudmila G. Migunova, Amalia L. Kuregyan and Elena S. Vorontsova*
8.	12-00 12-20	Communicating Ecological World View to Mining Engineering Students: Philosophy as an Addition to the Laws of Physics and Economics	Marina Morozova, Tatiana Kust, Larisa Poleschuk and Dmitry Dostovalov*
9.	12-20 12-40	Developing the structure and structural patterns for a system to support strategic decision making using expert knowledge	Alexandra Zakharova*, Vyacheslav Ostanin and Elena Telipenko
	13-15 14-15	Lunch	

Chair: Eugenia V. Dragunova (NSTU)

Date: 03.06.2016 Venue: NSTU building VI, room № 811

N⁰	Time	Report	Author (*Speaker)
1.	09-10	Cluster Network Paradigm: Developing the	Irina Adova*, Olga
	09-30	Corporate System of the Knowledge Management	Milekhina
2.	09-30	Synchronization of the Information and Material	Olga Kislitsyna*, Marina
	09-50	Flows of Production Systems	Khayrullina
3.	09-50 10-10	Industry specialization as a basic factor of regional	Anna Loseva*
4.	10-10 10-30	fiscal disparities Measuring growth of IT-firms: types, ontology, trajectories. Evidence from Russia	Evgeniia Dragunova* and Ekaterina Mezentseva
	10-30 11-00	Coffee Break	
5.	11-00 11-20	Evaluation of the territorial cluster innovation environment	Yana Tomilina*, Valentina Titova
6.	11-20 11-40	Assessment of the economic and social efficiency measures for the protection of labor in Russia	Natalia V. Bozo*, Ekaterina V. Malysheva
7.	11-40 12-00	Mutual influence of natural science, technical and economic knowledge in science and education	Galina Litvintseva, Natalya Nizovkina* and Nadezhda Gakhova
8.	12-00 12-20	Problems of DomesticMechanicalEngineeringDevelopmentIntheConditionsOfImportSubstitution Policy	Evgenya Prikhodko and Natalya Aksenova
9.	12-40 13-00	Tailoring Research and Development Practices to the Economic Capacity of an Enterprise	Natalia Shcherbakova*
	13-15 14-15	Lunch	

SECTION 8: APPLIED ENGINEERING

THERMAL SCIENCE AND TECHNOLOGY

Chair: Igor I. Korel (NSTU)

Date: 01.06.2016 Venue: NSTU building IV, lecture hall IV

N⁰	Time	Report	Author (*Speaker)
	14-00	Section work opening	
	14-05		
1	14-00	The Effect of Aspect Ratio on the Laminar Free	Khalil Yassin
	14-15	Convection inside a Vertical Channel Heated	
		Isothermally	
2	14-15	Experimental Study of Peat Thermophysical	Aigul Ilyasova
	14-30	Properties	
3	14-30	Research of Processes inside a Boiler Furnace	Pavel Gergelizhiu
	14-45	with Low-Temperature Vortex Technology	
		Based on Numerical Modeling	
4	14-45	Analysis of the Models in Forecastig	Irina E. Korzilova, Natalia
	15-00	Kinematic Scheme Education Nitrogen Oxides	V. Vizgavljust, Konstantin
		in the Solid Fuel	V. Buvakov, Tatiana S.
			Taylasheva and Aleksandr
			V. Starchenko
5	15-00	Effect of CO2 Temperature and Particle Size	Konstantin Slyusarskiy
	15-15	Distribution of Fuel on the Gasification Kinetic	
		Parameters	
6	15-15	Firing a Coal with Different Moisture Content	Elena S. Vorontsova
	15-30	in Tangentially-Fired Pulverised Coal Furnace	
7	15-30	Computer-aided Simulation of Fire-tube Boiler	Yana A. Belousova
	15-45	Emergency Operation	
8	15-45	Analytical Estimation of the Central Reflector	Anton Tanishev
	16-00	Impact on Thermal and Fast Neutron Flux	
		Density in Research Reactors	
	16-00	Coffee break	
	16-30		

APPLIED ENGINEERING

N⁰	Time	Report	Author (*Speaker)
1	16-30	Determination of Operational Characteristics of	Altynov Andrey
	16-45	Diesel fuel: A Study on Computational	
		Methods	
2	16-45	Evaporation Rate of a Horizontal Liquid Layer	Evgeniya Orlova
	17-00	into a Gas Flow	
3	17-00	Using the Chemical Dosimeter to Measure the	Elena Proskurina
	17-15	Integral Characteristics of the Pulsed Electron	
		Radiation	
4	17-15	Change of Coal-water Fuel Rheological	Andrey Zenkov
	17-30	Properties by Rotary Flows Modulation	

5	17-30 17-45	Amplitude-based Methods for Tracking Pneumatic Percussion Machines in Soil Drilling by Trenchless Technologies	Oleg Sankov, Ekatrina Denisova, Sergey Gavrilov, Anton Konurin and Sergey Kramer
6	17-45 18-00	Engineering and Analysis of Aerodynamics and Design Parameters for Metro Tunnel Fans with the Same Blade for Different Hub/Tip Diamater Ratios	Evgeniy Russky, Ivan Lugin, Aleksandr Krasyuk and Nikolaj Popov
7	18-00 18-15	Weight Optimization of Anisotropic Plates with Elliptical Holes in Bending	Vladimir Butyrin, Stanislav Levyakov, Evgeniy Podruzhin and Gennadiy Rastorguev
	18-15 18-30	Section work closing	

BIOENGINEERING AND TECHNOLOGIES FOR HUMANITY

Chair: Igor I. Korel (NSTU)

Date: 02.06.2016

Venue: NSTU building IV, lecture hall IV

N⁰	Time	Report	Author (*Speaker)
	14-00	Section work opening	
	14-05		
1	14-05	An Improved Watershed Segmentation	Lixin Song
	14-15	Algorithm for Mammographic Masses Images	
2	14-15	Bioengineering System Used to Restore the	Nikolay Dmitriev, Dmitry
	14-30	Patients Brain Fields Activity after Stroke	Belik and Maria
			Zinevskaya
3	14-30	Making 3D Model of Atrioventricular	Denis Ivashkov
	14-45	Xenopericardial Bioprosthesis from X-ray	
		Computed Tomography Data	
4	14-45	Investigation of the Response of the Skin	Svetlana V. Belavskaya,
	15-00	Surface Area, Corresponding to Projection of	Alexander A. Blokhin, Liliya
		the Organ Having Pathology, to the External	I. Lisitsyna, Anna A.
		Constant Light	Lyutkevich, Leonid G. Navrotsky, Tatiana M.
			Starovoytova and Evena L.
			Poteryaeva
5	15-00	Development of Human Arousal Algorithm	Hyungseob Han, Jungchul
	15-15	using Steady-State Visual Evoked Potential	Lee and Uipil Chong
		(SSVEP)	
6	15-15	Expert System of the Monitoring Module for	Yuliya Novitskaya and
	15-30	Smart School Laboratory	Andrey Gavrilov
	15-30	Coffee break	
	16-00		

APPLIED METHODS FOR ENGINEERING

N⁰	Time	Report	Author (*Speaker)
1	16-00	Design and Fabrication of the High Q	Hyeon Cheol Kim
	16-15	Gyroscope with Ring Spring Structure	
2	16-15	Structural and Physical Systematization of the	Boris Kidyarov and
	16-30	Nonlinear-optical Borate Crystals	Vladimir Makukha
3	16-30	A Prediction on the Hull-Girder Vibration of	Seung-Lyong Kim, In-Kyu
	16-45	Ship in waves	Park
4	16-45 -	Prediction of the Light Product Yield from the	Valeriya Stebeneva
	17-00	Catalytic Cracking Unit Using the	
		Mathematical Model	
5	17-00 -	Theoretical and Experimental Justification of	Vladimir Legkiy, Vasiliy
	17-15	Using Method of Radiolocation to Define	Baryshnikov, Aleksey
		Places of Drilling Measurement Boreholes in	Khmelinin, Ekaterina
		Reinforced Concrete Lining of Underground	Denisova and Anton
		Excavation	Kantsyrev

6	17-15 – 17-30	Controller Synthesizing of Refrigerant Flow Patterns	Vladimir Guzhov, Igor Sajin, Sergey Ilyinykh and Vladimir Shumeyko
			viadinin Shuneyko
7	17-30	Study on Development of Autonomous Vehicle	Taeun Kim, Soonyong
	17-45	Using Embedded Control Board	Yang
8	17-45	Conjugate Problem of Natural Convection in a	Alexander Nee
	18-00	Closed Volume with Infrared Emitter	
	18-00	Section work closing	
	18-15		