

III INTERNATIONAL SCIENTIFIC CONGRESS



# INNOVATIONS

VARNA, 19-22 JUNE 2017



# PROGRAM



**ORGANIZER:**

SCIENTIFIC -TECHNICAL UNION OF MECHANICAL ENGINEERING

*19.06 – 22.06.2017  
VARNA, BULGARIA*

# PROGRAM

## 19.06.2017 (Monday)

16:00 – 20:00	REGISTRATION	IN FRONT OF CONFERENCE HALL
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## 20.06.2017 (Tuesday)

08:00 – 10:00	REGISTRATION	IN FRONT OF CONFERENCE HALL
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CONFERENCE HALL 1		
10:00 – 10:15	OPENING OF THE CONGRESS	
10:15 – 12:30	PLENARY SESSION	

12:30 – 12:40	COLLECTIVE PICTURES OF PARTICIPANTS	THE STAIRS TO THE POOL
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## LUNCH 12:40 - 14:00 (NO LUNCH PROVIDED)

CONFERENCE HALL 1		
14:00 - 16:00	FIRST SESSION "INNOVATIVE SOLUTIONS"	
16:00 –16:30	COFFEE BREAK, DISCUSSION	
16:30 –18:30	SECOND SESSION "INNOVATIVE SOLUTIONS"	

CONFERENCE HALL 2		
14:00 - 16:00	SESSION "THEORETICAL PROBLEMS IN INNOVATIONS" " INNOVATION POLICY AND INNOVATION MANAGEMENT"	
16:00 –16:30	COFFEE BREAK, DISCUSSION	
16:30 –18:30	THIRD SESSION "INNOVATIVE SOLUTIONS" - <i>Materials</i>	

19:30 – 24:00	"WELCOME" COCKTAIL - CONFERENCE BAR	
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## 21.06.2017 (Wednesday)

10:00	CLOSING OF THE CONGRESS - WINE AND CHEESE PARTY	CONFERENCE BAR
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13:00 17:00	INTERNATIONAL CEEPUS SUMER SCHOOL "COMPUTER AIDED DESING - NEW STRATEGIES FOR DESIGNING MECHANICAL ASSEMBLIES"	CONFERENCE HALL 2
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## 22.06.2017 (Thursday)

10:00	OPENING OF THE CONGRESS "AGRIMACHINERY 2017"	CONFERENCE HALL 1
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*time for presentation 10-12 minutes,  
questions after each presentation*

# SCIENTIFIC PROGRAM

20.06.2017 10:00 – 10:15	OPENING OF THE CONGRESS	CONFERENCE HALL
	CHAIR: ASSOC.PROF. DR. TSANKA DIKOVA	

20.06.2017 10:15 – 12:30	PLENARY SESSION		CONFERENCE HALL	
CHAIRMAN: PROF.DSC.VLADIMIR FROLOV (RU)			CO-CHAIRMAN: PROF. DR DOBRNJAC M. (BA)	
1	INNOVATIVE DEVELOPMENTS OF THE INSITUTINS OF METALLURGICAL PROFILE OF THE RUSSIAN ACADEMY OF SCIENCES	Dr of Sci., Prof., Academician of Russian Academy of Sciences L.I. Leontiev Presidium RAS, Moscow	22	RU
2	INNOVATIVE TECHNOLOGIES OF A NEW OBTAINED NANOSTRUCTURAL AND MICROPOROUS MATERIALS	Prof. Leszek A. Dobrzański Medical and Dental Engineering Centre for Research, Design and Production Asklepios, Gliwice	68	PL
3	INCREASING INFORMATION SECURITY BY JAMMING WITH UNIFORMLY DISTRIBUTED EAVESDROPPERS	Aneta Velkoska PhD., M.Sc. Natasha Paunkoska, Ninoslav Marina PhD. University of Information Science and Technology, Ohrid	58	MK
4	GRAPHENE SUPPORTED CATALYST FOR ENHANCED BIOMASS HYDROLYSIS	Assoc.Prof. Dr.N. Perkas, M. Klein, A. Gedanken Department of Chemistry and the Center for Advanced Materials and Nanotechnology, Bar Ilan University, Ramat Gan	40	IL
5	ECONOMIC ASPECTS OF SPACE INFORMATION TECHNOLOGIES FOR THE RATIONAL USE OF LAND RESOURCES	Doctor of Economic Sciences, Professor, Zhavoronkova G., PhD (Economics), Associate Professor, Zhavoronkov V. National Aviation University, Kyiv, PhD (Economics), Associate Professor National University of horticulture, Melnyk L., Uman	11	UA
6	CASE STUDY – INNOVATION AND BUSSINESS EXCELENCE	Prof. Dr Mitreva E. <sup>1</sup> , Prof. Dr Krivokapić Z. <sup>2</sup> University "Goce Delcev", Shtip <sup>1</sup> University of Montenegro <sup>2</sup>	14	MK/ME
7	NEW METHODS FOR DIAGNOSTIC OF CNC MACHINE TOOLS	Ing. Zajačko I., PhD., prof. Dr. Ing. Kuric I., Ing. Císar M., PhD. University of Zilina,	39	SK
8	BASIC TECHNOLOGICAL PROCESSES REQUIRED TO CREATE MECHATRONIC SYSTEMS TO MEET TODAY'S NEEDS AND PROBLEMS OF THEIR INSTRUMENTAL SUPPORT OF "INDUSTRY 4.0" CHALLENGES	Doctor of science, Prof. Turmanidze R. Senior laboratory assistant Bachanadze V. Master Popkhadze G. Georgian Technical University (GTU)	69	GE

*time for presentation 10-12 minutes,  
questions after each presentation*

12:40 – 14:00	LUNCH (NO LUNCH PROVIDED)
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20.06.2017 14:00 – 16:00	FIRST SESSION “INNOVATIVE SOLUTIONS”	CONFERENCE HALL 1		
CHAIRMAN: PROF.DR. IVAN KURIC (SK)		CO-CHAIRMAN: ASSOC. PROF. GUNGOR A. (TR)		
10	DETERMINATION OF TURNING CENTER MANUFACTURING POSSIBILITIES IN THE FLEXIBLE MANUFACTURING SYSTEM	assoc. prof. M.Sc. Kostal P. PhD <sup>1</sup> , M.Sc. Mudrikova A. PhD <sup>1</sup> , M.Sc. Matusova M. PhD <sup>1</sup> , M.Sc. Hruskova E. PhD <sup>1</sup> Faculty of Materials Science and Technology – Slovak University of Technology	04	SK
11	THE NATURAL FREQUENCIES AND MODE SHAPES OF AN EULER-BERNOULLI BEAM WITH A RECTANGULAR CROSS- SECTION WHICH HAS A SURFACE CRACK	L.Emir SAKMAN <sup>1</sup> , Aşkın MUTLU <sup>1</sup> Faculty of Engineering – Department of Mechanical Engineering, Istanbul University,	42	TR
12	DEVELOPMENT OF SCHEMATIC DESIGN MODEL OF GANTRY CRANE FOR DYNAMIC ANALYSIS AND REGULATION OF TRAVEL MOTION	Prof.asc. Doçi Ilir, Prof.asc. Lajqi Naser* Faculty of Mechanical Engineering – University of Prishtina,	54	KO
13	THE APPLICATION OF VIBRATION ANALYSIS FOR DIAGNOSIS OF BEARINGS AND GEARS OF THE REAR AXLE ASSEMBLY OF THE PASSENGER CARS	soc. Prof. Dr. Lajqi N., Ass. Prof. Dr. Lajqi Sh.* University of Prishtina “HASAN PRISHTINA”	60	KO
14	GRUND CONTACT IN SIMMECHANICS FOR HUMANOID ROBOT	Prof.Asoc.Dr. Likaj R. <sup>1</sup> , Prof.Ass.Dr. Bajrami X. <sup>2</sup> , Prof.Asoc.Dr. Shala A*. <sup>1</sup> University of Prishtina “Hasan Prishtina” <sup>1</sup> University of Prizren “Ukshin Hoti” <sup>2</sup>	66	KO
15	SIMULATION OF VERTICAL QUARTER CAR MODEL WITH ONE AND TWO DOFs	Prof.Asoc.Dr. Bruqi M. <sup>1</sup> , Prof.Asoc.Dr.Likaj R. *. <sup>1</sup> , Prof.Asoc. Dr. Shala A. <sup>1</sup> Faculty of Mechanical Engineering – University of Prishtina “Hasan Prishtina” <sup>1</sup>	67	KO

20.06.2017 14:00 – 16:00	SESSION “THEORETICAL PROBLEMS IN INNOVATIONS” “ INNOVATION POLICY AND INNOVATION MANAGEMENT”	CONFERENCE HALL 2		
CHAIRMAN: PROF.DR. ZDRAVKO KRIVOKAPIC (ME)		CO-CHAIR: PROF. DSC. ZHAVORONKOVA G. (UA)		
16	CREATIVE LEARNING IN ICT-PROFESSORS’ TRAINING PROGRAM	Prof. Dr. ped. Zakirova F., Dotc. Cand. tech. Migranova E. Faculty of “Vocational education in the sphere of ICT” – Tashkent University of information technologies	34	UZ
17	RISK FACTORS INDUCED BY INSULATED MINE SELF-RESCUERS ON CHEMICALLY RELATED OXYGEN	Prof. Gryzunov V.V. PhD. <sup>1</sup> , student of the 3rd year Dzhemilev E.R. <sup>1</sup> , student	41	RU

*time for presentation 10-12 minutes,  
questions after each presentation*

	AFFECTING ON RESPIRATORY COMFORT	of the 3rd year Chipura S.I. <sup>1</sup> Saint-Petersburg Mining University		
18	TECHNOLOGY TRANSFER DRIVERS AND BARRIERS: CASE OF DISCRETE MANUFACTURING COMPANY	Mg.oec. Dubickis M. <sup>1</sup> , Prof. Dr.oec. Gaile-Sarkane E. <sup>1</sup> Riga Technical University, Riga	46	LV
29	CORRELATION BETWEEN KNOWLEDGE MANAGEMENT AND STANDARD ISO 9001	Prof. dr Jovanović J. <sup>1</sup> , Prof. dr Krivokapić Z. <sup>2</sup> , Prof. dr Vujović A. <sup>3</sup> , M.Sc. Avdalović P. <sup>4</sup>	13	ME
20	INNOVATION POLICIES OF POLISH INDUSTRIAL ENTERPRISES BASED ON INNOVATION CUBE MODEL. RESEARCH RESULTS	PhD. Paweł Mielcarek, Assistant Professor Poznan University of Economics and Business	31	PL
21	STRATEGY FOR THE DIAGNOSIS AND PREDICTION OF MACHINE FAILURES FOR DEVELOPING AVAILABILITY- ORIENTED BUSINESS MODELS IN CAPITAL GOODS	M.Sc. Bechev D., Prof. Dr.-Ing. Sauer B., M.Sc. Kölsch P., Dipl.-Ing. Herder C. F., Prof. Dr.-Ing. Aurich J. C., Dipl.- Ing. Wiegel T., Prof. Dr.-Ing. Seewig J. University of Kaiserslautern	21	DE
22	MARKETING INNOVATIONS IN THE AUTOMOTIVE INDUSTRY GLOBALLY	Todorov V., PhD Student in Marketing Faculty "Management and administration" – University of National and World Economy, Sofia	38	BG

16:00 – 16:30	COFFEE BREAK - CONFERENCE BAR
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20.06.2017 16:30 – 18:00	SECOND SESSION "INNOVATIVE SOLUTIONS"	CONFERENCE HALL 1		
CHAIRMAN: PROF.DR. GRYZUNOV V. (RU)		CO-CHAIRMAN: PROF.DR. DOČI ILIR (KO)		
23	HYDRAULIC AND THERMOTECNICAL MEASUREMENTS TO DETERMINE THE EFFICIENCY OF AN INNOVATIVE SOLAR THERMAL COLLECTOR	Prof. Dr Dobrnjac M.1, Prof. Dr Zivkovic P.2, MSc Chem. Eng. Dobrnjac S.3 Bch. Eng. Kecman I. 1 University of Banja Luka, Bosnia and Herzegovina1 Faculty of Mechanical Engineering, University of Nis, Serbia2 Projekt JSC, Banja Luka, Bosnia and Herzegovina3	29	BA RS
24	IMPROVING THE EFFICIENCY OF THE FLAT PLATE SOLAR COLLECTOR SYSTEM WITH A NEW DESIGN	Assoc. Prof. Gungor A.1 M.Sc. Yaka I.F.1, M.Sc. Gungor C.2, Akdeniz University, Antalia	32	TR
25	THE NEW SOLUTION OF THE SUBSTANCE FLOW SYSTEM IN THE STEAM DISTILLATION PROCESS OF ESSENTIAL OIL	PhD Dobrnjac M. <sup>1</sup> , PhD Hodžić A. <sup>2</sup> , MSc Dobrnjac S. <sup>3</sup> , Dobrnjac D. <sup>4</sup> University of Banja Luka <sup>1</sup> University of Bihac <sup>2</sup> Projekt JSC, Banja Luka <sup>3</sup> Solar mont Ltd, Gradiska <sup>4</sup>	30	BA

*time for presentation 10-12 minutes,  
questions after each presentation*

26	INFLUENCE OF INORGANIC INHIBITOR ON COPPER CORROSION IN ACIDIC MEDIUM	Sanela Božinović University of Belgrade, Technical faculty in Bor	57	RS
27	NOISE POLLUTION REDUCTION AND CONTROL PROVIDED BY GREEN LIVING SYSTEMS IN URBAN AREAS	MSc.Eng. Dimitrijević D. PhD student <sup>1</sup> , Assist. Prof. Živković P. PhD <sup>1</sup> , Assist. Prof. Dobrnjac M. PhD <sup>2</sup> , Assist. Prof. Latinović T. PhD <sup>2</sup> University of Niš, Serbia <sup>1</sup> University of Banja Luka, Bosnia and Herzegovina <sup>2</sup>	28	RS BA
28	DEVELOPMENT AND APPLICATION OF THE ULTRASONIC TECHNOLOGIES IN NUCLEAR ENGINEERING	Lebedev Oleg, "Novotek-ECO " Ltd, Vologda, Lebedev Nikolay, "Alexandra-Plus" Ltd, Vologda, Assoc. Prof. Gavrilov Yuri, Vologda State University Doilnitsyn Valery, Andrei Akatov Saint Petersburg State Institute of Technology	51	RU
29	NON-CHEMICAL WATER TREATMENT IN UNIFIED LIGHT AND SOUND FIELD AND TESTING ON WASTE WATER DECONTAMINATION	N. M. Lebedev <sup>1</sup> , V. A. Grachev <sup>2</sup> , A. N. Arefieva <sup>1</sup> , O. Y. Lebedev <sup>3</sup> , O. V. Plyamina <sup>2</sup> , V. A. Doilnitsyn <sup>4</sup> , A. A. Akatov <sup>4</sup> , L. V. Leonov <sup>5</sup> , O. N. Rublevskaya <sup>5</sup> , O. A. Lominoga <sup>5</sup> , Y. Gavrilov <sup>6</sup> <sup>1</sup> Ltd, Aleksandra-Plus Vologda, <sup>2</sup> Ecology Research Institute, Moscow, <sup>3</sup> Ltd Novotek-EKO, Vologda, <sup>4</sup> St. Petersburg State Technological Institute (technical university), <sup>5</sup> State Unitary Enterprise 'Vodokanal of St. Petersburg', <sup>6</sup> Vologda State University,	52	RU

20.06.2017 16:30 – 18:00	THIRD SESSION "INNOVATIVE SOLUTIONS" - <i>Materials</i>	CONFERENCE HALL 2		
CHAIR: ASSOC. PROF. DR. NINA PERKAS (IL)		CO-CHAIR: ASSOC. PROF. DR. TSANKA DIKOVA (BG)		
30	INNOVATIVE SOLUTIONS USING NITROGEN-CONTAINING STEELS	Dr. Sci. M.V. Kostina, PhD S. O. Muradjan, Baikov Institute of Metallurgy and Materials Science, Russian Academy of Sciences, Moscow	23	RU
31	DEVELOPMENT OF MATHEMATICAL MODELS OF THERMAL PLASMA PROCESSES	Vladimir Frolov, Dmitriy Ivanov Peter the Great Saint-Petersburg Polytechnic University	35	RU
32	ADHESION STRENGTH EVALUATION OF CERAMIC COATINGS ON CAST AND SELECTIVE LASER MELTED CO-CR DENTAL ALLOYS USING TENSILE SPECIMENS	Assoc. Prof. Ts. Dikova <sup>1a</sup> , Assoc. Prof. N.A. Dolgov <sup>2b</sup> , Assist. Prof. Dzh. Dzhendov <sup>1c</sup> , Assos. Prof. M. Simov <sup>3d</sup> <sup>1</sup> Medical University of Varna <sup>2</sup> Pisarenko Institute for Problems of Strength, Nat. Ac. Sci. of Ukraine, <sup>3</sup> Medical College, Medical University	33	BG UA

*time for presentation 10-12 minutes,  
questions after each presentation*

		of Varna,		
33	DEVELOPMENT OF ROLLING MODES FOR SAMPLES MADE FROM NICHROME POWDER ALLOY AND THEIR TESTING AT OPERATING TEMPERATURES	V. Solntsev <sup>1</sup> , G. Frolov <sup>1</sup> , L. Kravchuk <sup>2</sup> , V. Nazarenko <sup>1</sup> , I. Bilan <sup>1</sup> , K. Petrash <sup>1</sup> , I. Husarova <sup>3</sup> , F. Potapov <sup>3</sup> Frantsevich Institute for Problem of Materials Sciences of National Academy of Sciences of Ukraine, Kyiv, Ukraine <sup>1</sup> , Pisarenko Institute for Problems of Strength of National Academy of Sciences of Ukraine <sup>2</sup> SDO Yuzhnoye, Dnipro, Ukraine <sup>3</sup>	48	UA
34	THERMOEROZION TESTS OF ULTRA-HIGH-TEMPERATURE CERAMIC COATINGS ON CARBON-CARBON COMPOSITE SUBSTRATES	Евдокименко Ю., д.т.н. Фролов Г., Кисель В., Бучаков С., д.т.н. Григорьев О., д.т.н. Подчерняева И., к.т.н. Нешпор И., Цыганенко В. Институт проблем материаловедения им. И.Н. Францевича НАН Украины, Киев	49	UA
35	INTERNAL OPTICAL BISTABILITY OF QUASI-TWO-DIMENSIONAL SEMICONDUCTOR NANOHETEROSTRUCTURES	Derevyanchuk O.V. <sup>1</sup> , Kramar N.K. <sup>2</sup> , Kramar V.M. <sup>1</sup> Physical, Technical and Computer Sciences Institute <sup>1</sup> , College of Education <sup>2</sup> – Yuriy Fedkovych Chernivtsi National University, Chernivtsi	55	UA
36	AN INNOVATIVE METHOD OF POLIMERIC SAWDUST BOARDS PRODUCTION	Białasz Sebastian, Klepka Tomasz, Department of Technology and Polymer Processing, Faculty of Mechanical Engineering – Lublin University of Technology	26	PL

19:30 – 24:00	“WELCOME” COCKTAIL - CONFERENCE BAR
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Tuesday (20.06)	10:00 – 19:00	<b>POSTER SESSION</b> “THEORETICAL PROBLEMS IN INNOVATIONS” “ INNOVATION POLICY AND INNOVATION MANAGEMENT”	<b>CONFERENCE HALL 1</b>	
Wednesday (21.06)	09:00 – 13:00			
37	CREATION IN SCIENCE AND TECHNIQUE - A GENERAL APPROACH	Dr. R.E.Goot. <sup>1</sup> , M.B.A Student Eng.V.M.Goot. <sup>2</sup> Holon Institute of Technology, Holon, Israel <sup>1</sup> Tel Aviv University, Tel Aviv, Israel <sup>2</sup>	44	IL
38	UNDERSTANDING THE SIMPLE METHODS IN THE DESIGN PHASE OF INNOVATIVE PRODUCTS - KNOWLEDGE FOR MARKET SUCCESS	Božič L. Diocesan Classical Gymnasium Šentvid, the Slovene Republic	47	SI
39	INDUSTRIAL MATHEMATICS – PHASE TRANSITIONS, SCATERING, STRUCTURES	Stefan Bushev Institute of Metal Science, Equipment and Technologies	62	BG

*time for presentation 10-12 minutes,  
questions after each presentation*

		“Acad. Angel Balevski” – BAS, Sofia		
40	ASSESSMENT OF NEEDED VOLUME OF CAPITAL INVESTMENTS IN EARLY PHASES OF INNOVATIVE PRODUCT DESIGN IN MULTI-NOMENCLATURE MECHANICAL ENGINEERING	V.G. Abrahamyan Doctor of Science in Economics, Professor and Lecturer at the Yerevan State University	63	AM

Tuesday (20.06)	10:00 – 19:00	<b>POSTER SESSION</b> “INNOVATIVE SOLUTIONS”	<b>CONFERENCE HALL 1</b>	
Wednesday (21.06)	09:00 – 13:00			
41	CLASSICAL PROBLEMS OF THE TURBULENT BOUNDARY LAYER	Prof. Zaryankin A.Y. НИУ МЭИ	10	RU
42	HYBRID ENERGY MICROSYSTEMS ENHANCED BY SOLAR PV ENERGY	N.Tyutyundzhiev <sup>1</sup> ,K.Lovchinov <sup>1</sup> ,Hr. Angelov <sup>2</sup> ,M.Petrov <sup>3</sup> , Hr.Nichev <sup>1</sup> <sup>1</sup> Central Laboratory of Solar Energy and New Energy Sources-BAS <sup>2</sup> BEO“Musala” in Institute of Nuclear Research and Nuclear Energy-BAS <sup>3</sup> Sunwings Ltd.	15	BG
43	INNOVATIVE METHOD FOR STRESS STATE ANALYSIS IN THE DEFORMATION ZONE OF FORMED SPECIMEN	Assist. Prof. dr. Leo Gusel University of Maribor	06	SI
44	NEW METHOD AND DEVICE FOR MEASURING SLIDING FRICTION	Białasz Sebastian, Klepka Tomasz, Department of Technology and Polymer Processing , Faculty of Mechanical Engineering – Lublin University of Technology	27	PL
45	INNOVATIVE SOLUTIONS IN WASTE PROCESSING	Petkova-Kozovska M. S., PhD. <sup>1</sup> ‘International Economics and Politics’ Faculty – University of National and World Economy, Sofia, Bulgaria <sup>1</sup> UBB AD, Sofia, Bulgaria <sup>2</sup>	17	BG
46	DEVELOP REQUIREMENTS FOR AUTOMATED COMPLEX OF EXPRESS DIAGNOSTICS OF PIGMENTED SKIN LESIONS	Postgraduate student Rimskaya E. <sup>1</sup> , Ph.D. Apollonova I. <sup>1</sup> , Prof. dr. Nikolaev A. <sup>1</sup> , Prof. dr. Reshetov I. <sup>2</sup> , junior researcher Kudrin K. <sup>3</sup> Faculty of Biomedical technologies <sup>1</sup> - BMSTU, Faculty of Plastic surgery <sup>2</sup> – Sechenov University, Faculty of Microsurgery <sup>3</sup> – Herzen Institute, Russia	20	RU
47	IMPROVEMENT OF OPTICAL CHARACTERISTICS OF COMPONENTS OF OPTOELECTRONIC DEVICES IN THE HARSH CONDITIONS OF THEIR FUNCTIONING BY USING ELECTRON BEAM TECHNOLOGY	PhD, Asso.Prof. Yacenko I. V <sup>1</sup> . , DSc., Prof. Antoniuk V. C. <sup>2</sup> , Assoc.Prof. DSc Kyrychenko O. V. <sup>3</sup> , DSc. Gordienko V. I. <sup>4</sup> , Prof. DSc Vashchenko V. A. <sup>1</sup> Cherkasy State technological university <sup>1</sup> , Ukraine,	24	UA

*time for presentation 10-12 minutes,  
questions after each presentation*



		National Technical University of Ukraine " Kiev Polytechnic Institute name of Igor Sikorsky" <sup>2</sup> , Cherkassy Institute of Fire Safety named after Heroes of Chornobyl <sup>3</sup> , Ukraine, State Enterprise scientific-production complex "Photoprylad" <sup>4</sup> , Ukraine		
48	ВЫСОКОЧУВСТВИТЕЛЬНАЯ ФОТОГРАФИЧЕСКАЯ КАМЕРА ДЛЯ ИНФРАКРАСНОГО ДИАПАЗОНА	З. Хайдаров, Х.Т. Йулдашев, Б.З. Хайдаров, К.З. Хайдарова Ферганский политехнический институт	36	UZ
49	INNOVATION APPROACHES TO OPTIMIZE THE DRILLING PROCESS	Assoc. Prof.Dr.Mitev, G.V. Rousse University	43	BG
50	PECULIARITIES OF METALIZED SURFACES MODIFICATION OF SILICON ELEMENTS OF MICROELECTROMECHANICAL SYSTEMS WITH LOW-POWER ELECTRONIC FLOW	PhD. Bondarenko M. <sup>1</sup> , PhD Bondarenko I. <sup>1</sup> , Prof. dr. eng. Antonyuk V. <sup>2</sup> , Telezhynskiy D. <sup>3</sup> , Andriienko V. <sup>4</sup> Faculty of Electronically Technologies <sup>1</sup> , Department of International Relations <sup>3</sup> – Cherkassy State Technological University, Ukraine Faculty of instrument-making <sup>2</sup> – National Technical University of Ukraine «Ihor Sikorsky Kyiv Polytechnic Institute», Faculty of Information Technologies and Systems <sup>4</sup> – Cherkassy State Technological University, Ukraine	53	UA
51	METHODOLOGY OF DIMENSIONING OF GLUED JOINTS	Assoc. Prof. Pandev G., PhD, Faculty of Mechanical Engineering – University of Chemical Technologies and Metallurgy, Sofia	61	BG
52	TEHNOLOGIES AND MODULATED EQUIPMENT USED FOR OBTAINING COMPOSITE MATERIALS	Prof. dr. Steblyuk V., PhD Orlyuk M., PhD Holyavik O., eng. Soprunenko V. Institute of Mechanical Engineering, National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»,	56	UA
53	OPTIMAL CONTROL OF QUARTER CAR VEHICLE SUSPENSIONS	Prof.Asoc.Dr. Likaj R. <sup>1</sup> , Prof.Asoc.Dr. Shala A*. <sup>1</sup> , Prof.Ass.Dr. Bajrami Xh. <sup>2</sup> University of Prishtina "Hasan Prishtina" <sup>1</sup> University of Prizren "Ukshin Hoti" <sup>2</sup>	65	KO
54	EXPLORING THE SPECTRAL CHARACTERISTICS OF MATERIALS WITH BLASTING ACTION BY THE HELP OF STEREO CAMERA	PhD V. I. Dzhurov PhD I. S. Tsvetkov PhD T. J. Stancev mag.V. D. Dimitrov	70	BG
55	VERIFICATION OF NUMERICAL SIMULATIONS OF CO-EXTRUSION OF THE THREE-LAYER TUBE «STEEL / VANADIUM ALLOY / STEEL»	Dr. Tatyana Nechaykina National University of Science and Technology "MISIS", Moscow	59	RU
56	PRINCIPLES OF DESIGNING AND DEVELOPING INTELLIGENT MANUFACTURING SYSTEMS OF	Prof. dr. Palchevskiy B., PhD. Krestyanpol O., PhD. Krestyanpol L.	71	UA

*time for presentation 10-12 minutes,  
questions after each presentation*

	PACKAGING	Technological Faculty – Lutsk National Technical University		
57	ESTIMATION OF CONDITIONS IN EXCHANGEABLE JAWS DESIGN OF PNEUMATICS GRIPPER IN MILLING MACHINE WITHIN THE MANUFACTURING – ASSEMBLING SYSTEM ICIM 3000	M.Sc. Bucanyova M. PhD. <sup>1</sup> , M.Sc. Hruskova E. PhD. <sup>1</sup> , M.Sc. Matusova M. PhD. <sup>1</sup> , M.Sc. Kusa M. PhD. <sup>1</sup> Slovak University of Technology, Faculty of Materials Science and Technology in Trnava,	03	SK
58	INFLUENCE OF COMPONENT POSITION ON THE TABLE DURING ANGULAR ROBOT MACHINING ON ACCURACY IN AUTOMATED SYSTEMS	M.Sc. Kusa M. PhD. <sup>1</sup> , M.Sc. Barta J. PhD. <sup>1</sup> , M.Sc. Matusova M. PhD. <sup>1</sup> , M.Sc. Hruskova E. PhD. <sup>1</sup> , M.Sc. Bucanyova M. PhD. <sup>1</sup> Faculty of Materials Science and Technology in Trnava, Slovak University of Technology in Bratislava	05	SK
59	THE IMPACT OF TRIBOCORROSION ON WEAR OF WORK PARTS OF THE SCREW PRESS	Opačak I., mag.ing.mech. <sup>1</sup> , Putnik I., mag.ing.mech. <sup>1</sup> , Šakić D., bacc.ing.techn.inf. <sup>2</sup> , Prof. dr. sc. Marušić V. <sup>1</sup> Faculty of Mechanical Engineering, University of Osijek, Trg Ivane Brlić-Mažuranić 2, Slavonski Brod, Croatia <sup>1</sup> University Applied Science Zagreb, Vrbik 8, Zagreb, Croatia <sup>2</sup>	72	HR
60	DRY JIGGING OF COALS	Ulziisaikhan Purevsuren Namnan Tumurpurev Enkhbat Dombon Mongolian University of Science and Technology	07	MN
61	ENERGY BALANCE OF GREENHOUSE WITH GROUND WARMING INSTALLATION	Jovanovska V. PhD. <sup>1</sup> , Sovreski Z. PhD. <sup>2</sup> , Hristovska E. PhD. <sup>2</sup> , Makarijoski B. MSc. <sup>1</sup> Faculty of biotechnical sciences – Bitola <sup>1</sup> , Faculty of technical sciences – Bitola <sup>2</sup> University of "St.Kliment Ohridski" - Bitola, Republic of Macedonia <sup>1,2</sup>	64	MK

19:30 – 24:00	<b>“WELCOME” COCKTAIL - CONFERENCE BAR</b>
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21.06.2017 (Wednesday)

10:00	<b>CLOSING OF THE CONGRESS - WINE AND CHEESE PARTY</b>	<b>CONFERENCE BAR</b>
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**NEXT CONGRESS „INNOVATIONS 2018”**  
**20.06-23.06.2018, VARNA, HOTEL “AQUA AZUR”**

*time for presentation 10-12 minutes,  
questions after each presentation*



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*time for presentation 10-12 minutes,  
questions after each presentation*



II INTERNATIONAL SCIENTIFIC CONFERENCE  
**CONSERVING SOILS AND WATER**

30.08.-2.09.2017, BURGAS, HOTEL ATLANTIS  
[www.conserving-soils.eu](http://www.conserving-soils.eu)



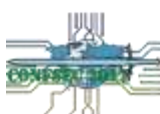
III INTERNATIONAL SCIENTIFIC CONFERENCE  
**MATERIAL SCIENCE.**  
**NONEQUILIBRIUM PHASE TRANSFORMATIONS 2017**

11-14.09.2017, VARNA, HOTEL AQUA-AZUR  
[www.material-science.eu](http://www.material-science.eu)



XIV INTERNATIONAL SCIENTIFIC CONGRESS - SUMMER SESSION  
**MACHINES. TECHNOLOGIES. MATERIALS 2017**

13-16.09.2017, VARNA, HOTEL AQUA-AZUR  
[www.mitmcongress.com](http://www.mitmcongress.com)



INTERNATIONAL SCIENTIFIC CONFERENCE ON SECURITY  
**CONFSEC 2017**

11 - 14 December, 2017, Borovets, Hotel ELA  
[www.confsec.eu](http://www.confsec.eu)



XI CONFERENCE FOR YOUNG RESEARCHERS  
**TECNICAL SCIENCES. INDUSTRIAL MANAGEMENT 2017**

13-16.12.2017, BOROVELTS, HOTEL ELA  
[www.youngconference.com](http://www.youngconference.com)



II INTERNATIONAL SCIENTIFIC CONFERENCE

**INDUSTRY 4.0**

13-16.12.2017, BOROVELTS, HOTEL ELA  
[www.industry-4.eu](http://www.industry-4.eu)



HTBS' 2018

III INTERNATIONAL SCIENTIFIC CONFERENCE  
**HIGH TECHNOLOGIES . BUSINESS . SOCIETY 2018**

12-15.03.2018, Borovets, Hotel ELA  
[www.hightechsociety.eu](http://www.hightechsociety.eu)



XV INTERNATIONAL SCIENTIFIC CONGRESS - WINTER SESSION  
**MACHINES. TECHNOLOGIES. MATERIALS 2018**

14-17.03.2018, Borovets, Hotel ELA  
[www.mitmcongress.com](http://www.mitmcongress.com)



XXV INTERNATIONAL AND TECHNICAL CONFERENCE

**FOUNDRY 2018**

05-07.04.2018, PLEVEN, HOTEL ROSTOV  
[www.metalcasting.eu](http://www.metalcasting.eu)



VI INTERNATIONAL SCIENTIFIC CONFERENCE  
**ENGINEERING. TECHNOLOGIES. EDUCATION. SECURITY 2018**

30.05-02.06.2018, VELIKO TARNOVO, HOTEL VELIKO TARNOVO  
[www.techtos.net](http://www.techtos.net)



INNOVATIONS

IV INTERNATIONAL SCIENTIFIC CONGRESS

**INNOVATIONS 2018**

18.06-21.06.2018, VARNA, HOTEL AQUA-AZUR  
[www.innova-eng.eu](http://www.innova-eng.eu)



2018

VI INTERNATIONAL SCIENTIFIC CONGRESS  
**AGRICULTURAL MACHINERY 2018**

20.06-23.06.2018, VARNA, HOTEL AQUA-AZUR  
[www.agrimachinery.net](http://www.agrimachinery.net)



trans & MOTAUTO 2018

XXVI INTERNATIONAL SCIENTIFIC CONFERENCE

**trans & MOTAUTO'18**

27.06-30.06.2018, BURGAS, HOTEL ATLANTIS  
[www.trans-motauto.com](http://www.trans-motauto.com)

*time for presentation 10-12 minutes,  
questions after each presentation*