



FEDERATION OF THE SCIENTIFIC ENGINEERING UNIONS (FSEU)

XVITH INTERNATIONAL CONGRESS

MACHINES. TECHNOLOGIES. MATERIALS'19



PROGRAM

ORGANIZER:

**SCIENTIFIC-TECHNICAL UNION OF MECHANICAL
ENGINEERING**



*11.09 – 14.09. 2019
Varna, BULGARIA*

PROGRAM

09.09.2019 (MONDAY)

16:00 – 20:00	REGISTRATION	IN FRONT OF CONFERENCE HALL №1
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10.09.2019 (TUESDAY)

08:00 – 17:00	REGISTRATION	IN FRONT OF CONFERENCE HALL №1
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11.09.2019 (WEDNESDAY)

16:00 – 20:00	REGISTRATION	IN FRONT OF CONFERENCE HALL №1
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12.09.2019 (THURSDAY)

08:00 – 10:00	REGISTRATION	IN FRONT OF CONFERENCE HALL №1
CONFERENCE HALL №1		
10:00 – 10:15	OPENING OF THE CONGRESS	
10:15 – 12:45	PLENARY SESSION	

12:45 – 13:00	COLLECTIVE PICTURES OF THE PARTICIPANTS	ON THE STAIRS TO THE POOL
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13:00 - 14:00 LUNCH BREAK (NO LUNCH PROVIDED)

	CONFERENCE HALL №1	
14:00 – 16:00	SECTION "TECHNOLOGIES"	
16:00 – 16:30	COFFEE BREAK - CONFERENCE BAR	
16:30 – 18:30	SECTION "MATERIALS"	

19:30 – 24:00	"WELCOME" COCKTAIL - CONFERENCE BAR	
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13.09.2019 (FRIDAY)

10:00	CLOSING OF THE CONGRESS - WINE AND CHEESE PARTY	CONFERENCE BAR
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SCIENTIFIC PROGRAM

12.09.2019 10:00 – 10:15	OPENING OF THE CONGRESS	CONFERENCE HALL 1
	CHAIRMAN: PROF.D.Sc. G. POPOV	

12.09.2019 10:15 – 12:45	PLENARY SESSION	CONFERENCE HALL 1		
CHAIRMAN: PROF.DR. CVETKOVSKI S. (NM) CO-CHAIR: PROF. DR. GALINA NIKOLCHEVA (BG)				
1	MICROSTRUCTURE FORMATION IN WHITE ETCHING CRACKS IN BEARINGS	Professor Dr. Eng. Roumen H. Petrov ^{2,1} Department of Electrical Energy, Metals, Mechanical Constructions & Systems (EEMMeCS)– Ghent University, Belgium ¹ Department of Materials Science and Engineering, Delft University of Technology, the Netherlands ²	60	BE NL
2	ULTRAFINE-GRAINED MAGNESIUM ALLOYS WITH ENHANCED STRENGTH AND IN-SERVICE PROPERTIES AFTER DIFFERENT DEFORMATION METHODS	Prof., Dr. Sci. Dobatkin S.V. ^{1,2} , Prof., PhD Estrin Yu.Z. ^{3,4} , PhD Martynenko N.S. ^{1,2} , PhD Lukyanova E.A. ^{1,2} , ¹ A.A. Baikov Institute of Metallurgy and Materials Science of the RAS, Moscow, Russia ² National University of Science and Technology "MISIS", Moscow, Russia ³ Department of Materials Engineering, Monash University, Clayton, Melbourne, Australia ⁴ Department of Mechanical Engineering, The University of Western Australia, Nedlands, Australia	44	RU AU
3	METHOD OF PERMEABLE ELEMENTS FOR SIMULATION OF POWDER METALS FORMING PROCESSES	Dr.Sc. Bagliuk G.A. Frantsevich Institute for Problems of Materials Science, NAS of Ukraine, Kyiv,	61	UA
4	SYNTHESIS AND DESIGN OF HYPERBOLOID GEAR DRIVES: METHODOLOGY AND ASPECTS	Assoc. Prof. Abadjieva E. PhD. ^{1,2} , Prof. Sc. D. Abadjiev V. PhD. ² Graduate School of Engineering Science, Akita University, Japan ¹ Institute of Mechanics, Bulgarian Academy of Sciences, Bulgaria ²	07	JP BG
5	PROCESSING OF BIMETALS IN THE ELECTROLYTE PLASMA	Prof. Dr. Eng. Kaputkin D. ¹ , Prof. Dr. Eng. Duradji V. ² , Ass. Prof. Dr. Eng. Kaputkina N. ³ Moscow State Technical University of Civil Aviation ¹ , National University of Science and Technology "MISIS" ² , Moscow Aviation Institute (National Research University) ³ , Moscow, Russia	21	RU

6	THE EFFECT OF BALL MILLING SPEED ON THE PENETRATION OF CR AND ZR INTO CU FOR PRODUCTION OF CU1CRZR ALLOY POWDER	Prof. Dr. Kul M., Assoc. Prof. Dr. Özer A., Dr. Öksüz K.E., Kurt N. Sivas Cumhuriyet University, Sivas,	48	TR
7	AN APPROACH OF FRA AND ITS USE FOR UJV SUPPORTED MANUFACTURING	Assoc. Prof. Aliksieiev V. PhD., Assoc. Prof. Liubinsky B. PhD., Assoc. Prof. Hladun V. PhD. Lviv Polytechnic National University	71	UA

12:45– 13:00	COLLECTIVE PICTURES OF PARTICIPANTS	THE STAIRS TO THE POOL
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13:00 - 14:00 LUNCH BREAK (NO LUNCH PROVIDED)

12.09.2018 14:00 – 16:00	SESSION “TECHNOLOGIES”	CONFERENCE HALL 1		
CHAIRMAN: PROF. DR. ROUMEN PETROV (BE)		CO-CHAIRMAN: ASSOC. PROF. DR. VLADISLAV ALIEKSIEIEV (UA)		
8	EFFECT OF AL-TI-C SYSTEM MASTER ALLOY HIGH ENERGY SYNTHESIS ON EFFICIENCY OF NI BASED SUPERALLOY INOCULATION	Prof., D.Sc. Syzonenko O., Ph.D. Lypian Ye., Ph.D. Torpakov A., Ph.D. Zaichenko A., Ph.D. Prystash M. Institute of Pulse Processes and Technologies of the National Academy of Sciences of Ukraine – Mykolaiv, Ukraine	36	UA
9	VIRTUAL EVALUATION OF THE INFLUENCE OF INDEPENDENT FACTORS ON THE FORCE DEFORMATION WHEN RECEIVING LONG-LENGTH PRODUCT FROM LOW-ALLOYED CHROME BRONZE BY THE SPD METHOD «CONFORM»	Lead. Res., Dr. Semenov V.I. ^{1*} , Res. Dr. Raab A.G. ¹ , Prof. Tontchev N.T. ² , Assoc. Prof. Kamburov V.V. ³ ¹ Ufa State Aviation Technical University, Ufa, Russia ² Todor Kableshkov Higher School of Transport, Sofia, Bulgaria ³ Technical University of Sofia,	51	RU BG
10	EFFECT OF OPERATING AND DESIGN VARIABLES ON STRIPPED SOUR WATER QUALITY	Eng. Mansour A ¹ , Associate Prof. Ghallab A O ² , Prof. Dr. Gadalla M A ³ , Prof. Dr. Ashour F H ⁴ Faculty of Engineering, Cairo University, Giza ^{1,2,3} , Faculty of Engineering, Port Said University ⁴	16	EG
11	DEVELOPMENT AND RESEARCH OF CHARACTERISTICS OF TWO-LAYER DIAMOND PLATES FOR DRILLING TOOLS	Assoc. Prof., Dr. Prokhorov V. ^{1,2,*} , Head of laboratory, Dr. Pozdnyakov A. ¹ , Junior Res., Kravchuk K. ¹ , Researcher Morokov E. ³ . Technological Institute for Superhard and Novel Carbon Materials, Moscow, Moscow Institute of Physics and Technology, Moscow Emmanuel’s Institute of Biochemical Physics ³ , Moscow	04	RU
12	DESALINATION BY FLUE GAS HUMIDIFICATION-DEHUMIDIFICATION USING TWO DIFFERENT FLUE GAS COMPOSITIONS	M.Sc. Elnahas M. H. ¹ , PhD. Ghallab A. O. ¹ Department of Chemical Engineering, Faculty of Engineering – Cairo University, Egypt	22	EG

13	INVESTIGATION AND ANALYSIS OF ELECTROCHEMICAL MACHINING OF 321-STAINLESS STEEL BASED ON RESPONSE SURFACE METHODOLOGY	Assist. Prof. Ali Mehrvar ¹ , Assoc. Prof. Ali Bast ² , Assoc. Prof. Ali Jamali ² Department of Mechanical Engineering – University of Shahreza, Isfahan, Iran ¹ Faculty of Mechanical Engineering – University of Guilan, Rasht, Iran ²	39	IR
14	SYNTHESIS OF MICROSPHERES BASED ON PURE METALS AND ALLOYS WHEN COMBINING METHODS OF PYROLYSIS AND COMBUSTION OF SOLUTIONS	Dr. Podbolotov K.B. ¹ , Dr. Hort A.A. ² , Melnik N. Y. ¹ , Hort N.A. ¹ , Velichko M.V. ³ Physical-Technical Institute of the National Academy of Sciences of Belarus ¹ Institute of heat and mass transfer of the National Academy of Sciences of Belarus ² Belarusian State Economic University ³	47	BY
15	ANALASYS OF OPPORTUNITIES FOR DEVELOPMENT OF BULGARIAN INDUSTRIAL MANUFACTURING	M.Sc. Veleva N. ¹ Faculty of Mechanical Engineering, Department of Industrial Management – Technical University of Varna, Bulgaria	13	BG

16:00 – 16:30	COFFEE BREAK - CONFERENCE BAR
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12.09.2019	SESSION “MATERIALS”	CONFERENCE HALL 1		
16:30 – 18:30				
CHAIRMAN: PROF. DSC BAGLYUK G. (UA)		CO-CHAIR: ASSOC.PROF.DR. ABADJEVA E. (JP)		
16	AL MATRIX FGM HAVING 5, 15 AND 25 % B ₄ C _p REINFORCED LAYERS	Prof. Dr. H. Erdem Camurlu Mechanical Engineering Department – Akdeniz University, Antalya	31	TR
17	FEATURES OF THE FORMATION OF POLYMETALLIC STRUCTURE OF MATERIALS OBTAINED BY THE METHODS OF ADDITIVE TECHNOLOGIES	Alexeeva Ekaterina Vasilevna National University of Science and Technology "MISIS"	15	RU
18	FINITE ELEMENT SIMULATION ON TENSILE CREEP BEHAVIOUR OF UNDERGROUND SUPPORT LINER	Guner D., Ozturk H. Mining Engineering Department, Middle East Technical University, Ankara	19	TR
19	FAILURE CHARACTERIZATION OF ROCK ANCHOR BOLTS BY THERMAL CHANGE DETECTION UNDER TENSILE STRENGTH TESTING	Asst. Prof. Dr. Mustafa Erkayaoglu, Alper Kirmaci. Middle East Technical University	20	TR
20	MICROSTRUCTURE AND WEAR RESISTANCE OF NANO-STRUCTURED 90SICRMN6-4 STEEL	Krzysztof Wasiak Warsaw University of Technology	52	PL
21	COMPARISON OF PROPERTIES OF 100CRMNSI 6-4 BEARING STEEL AFTER VARIOUS HEAT TREATMENTS	Krzysztof Chmielarz, PhD student Warsaw University of Technology	55	PL
22	THE EFFECT OF GRAPHENE OXIDE ON THE PHOTOCATALYTIC ACTIVITY OF FE ₃ O ₄ @ZNO FOR DECOMPOSITION OF ORGANIC POLLUTANTS	Assoc.Prof. Dr. Sedigheh Abbasi Esfarayan University of Technology	41	IR

19:30 – 24:00	“WELCOME” COCKTAIL	CONFERENCE BAR
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POSTER SESSION

THURSDAY (12.09)		10:00 – 19:00	POSTER SESSION “MACHINES& INDUSTRIAL DESIGN”	CONFERENCE HALL 1	
FRIDAY (13.09)		09:00 – 13:00			
23	PROCEDURE FOR DETERMINATION OF THE CALIBRATION CURVE OF THE MEASUREMENT DEVICE USING THE METHOD OF LINEAR REGRESSION	M. Sc.Gjakovskil. ¹⁾ ; M.Sc. Milev S. ²⁾ ; Ph.D.BrkovskiD. ³⁾ ; M. Sc. Gerasimovski A. ⁴⁾ ; UNIQA North Macedonia AD ¹⁾ ; Faculty of Mechanical Engineering - Goce Delcev University in Stip, Republic of North Macedonia ²⁾ , RZ Inter-transsped AD Skopje ³⁾ ; Faculty of Mechanical Engineering, Ss. Cyril and Methodius, University in Skopje, Republic of North Macedonia ⁴⁾ .	24	NM	
24	SIMULATION TESTS OF THE BRAKING PROCESS OF AN AGRICULTURAL TRACTOR	Eliza Borawska Faculty of Civil and Environmental Engineering Białystok University of Technology	28	PL	
25	DEVELOPMENT AND TRENDS IN FURNITURE WITH ACOUSTIC PERFORMANCE	M.Sc. Teodora Pesheva Technical University of Sofia	25	BG	
26	REALIZATION OF A DESIGN PRODUCT WITH THE POSSIBILITIES OF DIGITAL PAINTING	PhD Student Daulova I. Technical University of Sofia	23	BG	
27	EXAMPLES OF SOFTWARE CONFIGURATION MANAGEMENT	M.Sc. Ivanova Milka Faculty of Mechanical Engineering – Technical University of Sofia	27	BG	
28	IMPACT OF INTERNATIONAL TYPOGRAPHIC STYLE ON WEB DESIGN	Dr. Iliev I. Technical University of Varna	30	BG	

THURSDAY (12.09)		10:00 – 19:00	POSTER SESSION “MATERIALS”	CONFERENCE HALL 1	
FRIDAY (13.09)		09:00 – 13:00			
29	FEATURES OF WEAR OF RAILWAY WHEELS TREAD	Prof.. Dr. Sci. Gubenko S. National Metallurgical academy of Ukraine, Dnepropetrovsk	08	UA	
30	THE PHENOMENON OF REVERSION IN AGING MAGNESIUM ALLOYS WITH THE RARE-EARTH METALS	Prof. Rokhlin L.L., PhD. Dobatkina T.V., Tarytina I.E., PhD. Lukyanova E.A. Baikov Institute of Metallurgy and Materials Science, Russian Academy of Sciences, Moscow	12	RU	
31	EFFECT OF AGING ON ZAMAK 3	H. Erdem Camurlu, İsmail Aktuna Mechanical Engineering Department – Akdeniz University, Antalya	32	TR	
32	FORMATION OF ZRB ₂ -ALN POWDER MIXTURE BY SELF-PROPAGATING HIGH-TEMPERATURE SYNTHESIS	H. Erdem Camurlu Mechanical Engineering Department – Akdeniz University, Antalya	33	TR	

33	MATERIAL-SCIENCE ASPECTS OF FORMATION AND EVOLUTION OF FLAWS WHICH DEFINE THE RESOURCE EXPLOITATION OF ALUMINUM STRUCTURES OF AIRPLANES	Prof. Dr. Chernega S., phd. Abolihina H., phd. Grinenko K. National Technical University of Ukraine "Igor Sikorsky Kiev Polytechnic Institute"	35	UA
34	PREPARATION AND CHARACTERIZATION OF MANGANESE OXIDES AND BIRNESITES, APPLIED AS ELECTRODE MATERIALS IN ION BATTERIES	Dr. Zlatanova Z., Kireva M. University of Sofia	40	BG
35	EFFECT OF STRUCTURE AND TEXTURE ON THE MECHANICAL CHARACTERISTICS OF MAGNESIUM ALLOYS PROCESSED BY EQUAL-CHANNEL ANGULAR PRESSING	PhD Martynenko N.S. ^{1,2} , Tokar A.A. ^{1,2} , PhD. Serebryany V.N. ¹ , PhD. Prosvirnin D.V. ¹ , Prof., Dr. Sci. Terentiev V.F. ¹ , Prof., Dr. Sci. Raab G.I. ³ , Prof., Dr. Sci. Dobatkin S.V. ^{1,2} , Prof., PhD Estrin Yu.Z. ^{4,5} ¹ A.A. Baikov Institute of Metallurgy and Materials Science of RAS, Moscow, ² National University of Science and Technology "MISIS", Moscow, ³ Ufa State Aviation Technical University, Ufa, ⁴ Monash University, Clayton, ⁵ The University of Western Australia, Nedlands, Australia	45	RU AU
36	THE STRENGTHENING AND RENWALING OF DAMAGER REINFORCED CJNIETRE STRUCTURES BY HRESTRESSED FIBER REINFORCTD PLASTICS	Prof. Dr. Aliy Bespayev , Eng. Ulan Kuralov, Eng. Ulan Altigenov Kazakh Research and Design Institute of Construction and Architecture. Almaty,	46	KZ
37	ENERGY HEAT EXCHANGE IN THE ZONE OF CONTACT OF THE PROBE OF AN ATOMIC FORCE MICROSCOPE WITH THE SURFACE UNDER STUDY	Andriienko O., Ralchenko S., Doctor of Science Bondarenko M., PhD Bondarenko Yu. Faculty of Electronically Technologies and Robotics Cherkassy State Technological University, Ukraine	49	UA
38	PROPERTIES OF NANODIAMONDS OF INDUSTRIAL DETONATION SYNTHESIS	Prof. DSc E. A. Petrov ^{1,2} ; Postgraduate Student, SC Federal Research and Production Center "Altai" A. A. Kolesova ² ; Director, Research and Production Enterprise "SIDAL" A. B. Pribavkin ³ Biysk Technological Institute of Altai State Technical University named after I.I. Polzunov, Biysk city ¹ ; SC Federal Research and Production Center "Altai" Biysk city ² ; CLL RPE "SIDAL", Kachkanar city ³	50	RU
39	PECULIARITIES OF THE INTERACTION OF A HIGHLY CARBONIZED FERROCHROME WITH IRON DURING SINTERING OF 65% FE-35% FH800 COMPOSITE	Dr.Sc. Maslyuk V. ⁽¹⁾ , Eng. Karaimchuk E. ⁽¹⁾ , PhD. Gripachevsky O. ⁽²⁾ , Dr.Sc. Bagliuk G. ⁽¹⁾ , R.As. Sytnyk I. ⁽¹⁾ ⁽¹⁾ Frantsevich Institute for Problems of Materials Science, NAS of Ukraine ⁽²⁾ G. V. Kurdyumov Institute for Metal Physics, NAS of Ukraine,	62	UA

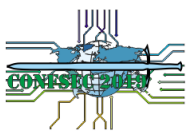
40	COMPUTER MODELING OF INFLUENCE OF PREVIOUS DEFORMATION DEGREE AND STRAIN RATE ON CARBONITRIDES PRECIPITATION KINETICS IN LOW-CARBON MICRO-ALLOYED STEEL	Ph.D. Kavarynskyi V., Eng. Sukhenko Z., Prof., DSc. Bagliuk G. Institute for Problems of Materials Science NAS of Ukraine	63	UA
41	FEATURES OF STRUCTURE, PHASE COMPOSITION AND PROPERTIES OF HOT-FORGED HIGH-ENTROPY ALLOYS OF TI-CR-FE-NI-C SYSTEM	M.Sc. Marych M.V., Prof., Dr.Sc. Bagliuk G.A., PhD Mamonova A.A., M.Sc. Molchanovska G.M., PhD Yevych Y.I. Frantsevich Institute for Problems of Materials Science, NAS of Ukraine, Kyiv,	64	UA
42	MODELING OF THE METAL POWDER PRESSING PROCESS WITH A POROGEN	Prof., Dr. Eng., Cor. Member of NAS of Belarus Ilyushchanka A. ^{1,2} , Head of the Lab. Charniak I. ² , Res. Kusin A. ² , Prof. Dr. Kapceвич V. ³ State Research and Production Powder Metallurgy Association ¹ – Minsk, Republic of Belarus State Scientific Institution “O.V. Roman Powder Metallurgy Institute” ² – Minsk Belarusian State Agriculture Technical University ³ – Minsk	65	BY
43	ANALYSIS OF PLASTICITY OF QUENCHED TOOL STEEL DURING STRESS RELAXATION AT ELEVATED TEMPERATURE	Assoc. Prof. Kandrotaitė Janutienė R. PhD ¹ , Lect. Mažeika D. PhD ¹ , Doc. Žvinys, J., PhD ² Faculty of Mechanical Engineering and Design – Kaunas University of Technology ¹ , Lithuania; Emeritus of Kaunas University of Technology ²	66	LT
44	THE CONNECTION BETWEEN COEFFICIENT CLUSTERISATION WITH TEMPERATURE	Mast. of Phys. Liaushuk I., Assoc. Prof. Dr. Eng. Auchynnikaу Y., Assoc. Prof. Dr. Nikitin A., Prof. Dr. Liopo V. Yanka Kupala State University of Grodno	67	BY
45	NANOMATERIALS. AMORPHOUS AND NANOCRYSTALLINE METAL ALLOYS. SOLID-PHASE NANOSTRUCTURING	Boyan Dochev, Angel Velikov, Ivan Panov, Vanya Dyakova, Pavel Kuzmanov, Valentin Manolov Bulgarian Academy of Sciences, Institute of Metal Science, Equipment and Technologies with Hydro- and Aerodynamics Centre “Acad. A. Balevski”	74	BG
46	"SOL GEL ZIRCONIA-TITANIA COATINGS : EFFECT OF THE TREATMENT TEMPERATURE ON THE PROTECTIVE PROPERTIES"	Assoc. Prof. Dr. I. Stambolova, Chief Assist. Prof. Dr. St. Yordanov, Assoc. Prof. Dr. V. Blaskov, Prof. Dr. L. Lakov, Assist. Prof. M. Shipochka, Assoc. Prof. Dr. B. Jivov Bulgarian Academy of Sciences, Institute of Metal Science, Equipment and Technologies with Hydro- and Aerodynamics Centre “Acad. A. Balevski”	75	BG

47	AL-AL ₂ O ₃ COMPOSITES FOR SELECTIVE LASER MELTING	Nalivaiko Anton ¹ , Ozherelkov Dmitry ¹ , Komissarov Alexander ¹ , Pavlov Mikhail ¹ , Arnautov Alexey ² , Zmanovsky Sergey ² , Gromov Alexander ¹ , Li Anna ¹ ¹ National University of Science and Technology "MISIS, Moscow ² UC RUSAL, Moscow	77	RU
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THURSDAY (12.09)		10:00 – 19:00	POSTER SESSION "TECHNOLOGY"	CONFERENCE HALL 1	
FRIDAY (13.09)		09:00 – 13:00			
48	ECONOMIC ANALYSIS OF REPLACEMENT OF CONVENTIONAL WELDING TECHNOLOGY WITH UNCONVENTIONAL	MA. Sc. Eng. Koprivica A., Ph. D. Sc. Eng. Vukčević M., Ph. D. Sc. Eng. Šibalić N. University of East Sarajevo, Trebinje University of Montenegro, Podgorica	05	BH ME	
49	SYSTEM FOR PROCESSING CONCENTRATED AND NON-CONDENSING GASES IN BOILERS	Ch. Assistant Dr. Eng. Madzharova St. ¹ , Assoc. Prof. Dr. Petrova T. ² , Prof. Dr. Eng. Bozukov N. ¹ University of Food Technologies, Plovdiv ¹ Institute for Food Research and Development ²	09	BG	
50	MANUFACTURING THE ENVIRONMENT-FRIENDLY FILTERS FOR WASTE INCINERATORS	Ali A.Jabour Al-graty Babylon university	26	IQ	
51	AUTOMATED 2D LASER SCANNING SYSTEMS FOR INVESTIGATIONS OF SOLID SURFACES	M.Sc. Todorov P. ¹ , Assoc.Prof. Ivanov O. ¹ , Pashev K. ¹ , Ralev Y. PhD. ¹ , Prof. Pérez-Díaz J. L. ² ¹ "Georgi Nadjakov" Institute of Solid State Physics – Bulgarian Academy of Sciences, ² Escuela Politécnica Superior, Universidad de Alcalá, Alcalá de Henares, Spain	37	BG ES	
52	CALCULATION OF THE PARAMETERS ON OUTPUT CURRENT IN FULL-BRIDGE SERIAL RESONANT POWER CONVERTER	Assos. prof. Dr. Eng. Stefanov G. ¹ , Prof. Dr. Eng. Sarac V. ² , Assist. M.Sc. Kukuseva Paneva M. ³ , Assis. M.Sc. Citkuseva Dimitrovska B. ⁴ , Assis. M.Sc. Veta Buralieva J. ⁵ Faculty of Electrical Engineering-Radovish, University 'Goce Delcev'-Stip, North Macedonia ^{1,2,3,4} FI- Stip, University 'Goce Delcev'-Stip, North Macedonia ⁵	38	NM	
53	NUMERICAL SIMULATIONS OF HONING PROCESS OF THIN WALL CYLINDER LINERS, WITH CONSTANT AND WITH VARIABLE THICKNESS OF WALL OF HONED PARTS	M.Sc. Sender P.G. Faculty of Mechanical Engineering – Gdansk University of Technology	42	PL	
54	IMPROVING THE EFFICIENCY OF TECHNOLOGICAL PROCESSES OF MECHANICAL TREATMENT OF DETAILS IN MECHANICAL ENGINEERING	Prof. DSc. A.N. Tyurin,, engineer N.A. Tyurin West Kazakhstan Agrarian Technical University. Zhangir Khan,	43	KZ	

55	ACTIVE SECURITY INFORMATION TECHNOLOGY OF MUNICIPAL VEHICLES	Boiko V. Faculty of Information Technologies and Systems Cherkassy State Technological University	60	UA
56	ANALYSIS OF THE CORROSION CONDITION OF THE STEEL PIPE SYSTEM AFTER LONG PERIOD OF EXPLOATATION	Prof. Dr Cvetkovski S. PhD. ¹ , Dr Jashari N. PhD. ² . Prof. Dr Nacevski G. PhD. ¹ , Faculty of Technology and Metallurgy – Ss. Cyril and Methodius University, Skopje Republic of North Macedonia ¹ State University Tetova, Tetova, Republic of North Macedonia ²	73	NM

THURSDAY (12.09)	10:00 – 19:00	POSTER SESSION SIMPOSIUM “MANAGEMENT”	CONFERENCE HALL 1	
FRIDAY (13.09)	09:00 – 13:00			
57	STUDY OF THE OPPORTUNITIES FOR BUILDING AND MANAGEMENT OF FLEXIBLE SMALL AND MEDIUM ENTERPRISES IN BULGARIA	Assoc. Prof. Eng. Dimitrova K. PhD, Assoc. Prof. Eng. Panayotova T. PhD, M.Sc. Veleva N. Technical University of Varna,	11	BG
58	PLANNING THE INFLOW OF PRODUCTS FOR PRODUCTION LEVELLING	M.Sc. Eng. Rewers R. Faculty of Mechanical Engineering and Management – Poznan University of Technology	17	PL
59	SELECTION OF PRODUCTION TIME FORECASTING METHOD FOR CUSTOMIZED PRODUCTS	M.Sc. Osirński F. ¹ , Department of Management and Production Engineering – Poznan University of Technology	18	PL
60	IMPROVING THE CLASSIFICATION OF STRATEGY OF INNOVATIVE ACTIVITY OF THE ENTERPRISE	Prof., D.Sc., Cherep O., Prof., D.Sc., Voronkova V., Ph.D., Lyshchenko E., Ph.D., Nikitenko V. Zaporizhzhia National University Zaporizhyya national texnical university, Zaporizhzhia National University	56	UA
61	FORMATION OF INNOVATIVE POLICY TAKEN INTO ACCOUNT OF THE ECONOMIC MECHANISM OF INNOVATIVE ACTIVITIES OF INDUSTRIAL ENTERPRISES	Ph.D., Oleynikova L., Prof., D.Sc., Nurlikhina G., Ph.D., Gamova O., Ph.D., Seysebayeva N. Academy of Financial Management University Almaty Zaporizhzhia National University	57	UA KZ
62	FORMATION OF PRINCIPLES OF INVESTMENT STRATEGY OF INDUSTRIAL ENTERPRISES	Ph.D., Lepekhyn O., Ph.D., Chernikova N, Ph.D., Azhazha M., Ph.D., Dashko I. Zaporizhzhia National University (Zaporizhzhia, Ukraine)	58	UA
63	RESEARCH AND JUSTIFICATION OF THE POSSIBILITIES, RELEVANCE AND CORRECTNESS OF THE MONITORING AND CORRECTION OF THE STRATEGY, DIAGNOSIS OF THE PROSPECTS OF ITS FURTHER USE ON INDUSTRIAL ENTERPRISES	Prof., D.Sc., Cherep A., Prof., D.Sc., Kuznetsov Yu. Prof. Dr. Andriukaitienė R., Dr. Faizullina S. Zaporizhzhia National University National University «KPI» Lithuanian Sports University Kazakh National University named after Abai	59	UA LT KZ



III INTERNATIONAL SCIENTIFIC CONFERENCE

CONFSEC 2019

09-12.12.2019, BOROEVETS, HOTEL ELA

www.confsec.eu



IV INTERNATIONAL SCIENTIFIC CONFERENCE - WINTER SESSION

INDUSTRY 4.0

11-14.12.2019, BOROEVETS, HOTEL ELA

www.industry-4.eu



III INTERNATIONAL SCIENTIFIC CONFERENCE

MATHEMATICAL MODELING

11-14.12.2019, BOROEVETS, HOTEL ELA

www.mathmodel.eu



V INTERNATIONAL SCIENTIFIC CONFERENCE

HIGH TECHNOLOGIES. BUSINESS. SOCIETY 2020

09-12.03.2020, BOROEVETS, HOTEL ELA

www.hightechsociety.eu



XIII CONFERENCE FOR YOUNG RESEARCHERS

TECHNICAL SCIENCES. INDUSTRIAL MANAGEMENT 2020

11-14.03.2020, BOROEVETS, HOTEL ELA

www.youngconference.com



XVII INTERNATIONAL SCIENTIFIC CONGRESS - WINTER SESSION

MACHINES. TECHNOLOGIES. MATERIALS 2020

11-14.03.2020, BOROEVETS, HOTEL ELA

www.mtmcongress.com



XXVII INTERNATIONAL SCIENTIFIC-TECHNICAL CONFERENCE

FOUNDRY 2020

08-10.04.2020, PLEVEN, HOTEL ROSTOV

www.metalcasting.eu



VIII INTERNATIONAL SCIENTIFIC CONFERENCE

ENGINEERING. TECHNOLOGIES. EDUCATION. SECURITY 2020

27.05-30.05.2020, VELIKO TARNOVO, HOTEL ASENEVTSI

www.techtos.net