

UNIVERSITY OF MONTENEGRO Faculty of Mechanical Engineering

UNIVERSITY OF EAST SARAJEVO Production and Management Faculty at Trebinje Faculty of Mechanical Engineering



8th International Scientific Conference Research and development of mechanical elements and systems



CONFERENCE PROGRAM

Trebinje,September 2017

Organised by:

Asocijacija za Dizajn, Elemente i Konstrukcije Association for Design, Elements and Constructions Association für Design, Elementen und Konstructionen



Partner organisations:



IFTOMM International Federation for the Promotion of Mechanism and Machine Science



Trebinje Municipality in Bosnia and Herzegovina



Power Utility of Republic of Srpska



Mine and Thermal power plant Gacko



Hydroelectric Power Plant at Trebišnjica

UNIVERSITY OF MONTENEGRO Faculty of Mechanical Engineering

UNIVERSITY OF EAST SARAJEVO Production and Management Faculty Trebinje Faculty of Mechanical Engineering

8th International Scientific Conference

Research and development of mechanical elements and systems



CONFERENCE PROGRAM

MACHINE ELEMENTS AND SYSTEMS IN ENERGY SECTOR DEVELOPMENT OF POWER PRODUCTION SYSTEMS

Trebinje, September 2017

8th INTERNATIONAL SCIENTIFIC CONFERENCE "Research and development of mechanical elements and systems"

IRMES 2017

"Machine elements and systems in energy sector Development of power production systems"

Trebinje, Republic of Srpska, Bosnia and Herzegovina September 7th - 9th, 2017

Organizer:

ADEKO Association for Design, Elements and Construction

Host organizer:

Faculty of Mechanical Engineering UNIVERSITY OF MONTENEGRO

Co-organizer:

Production and Management Faculty Trebinje, Faculty of Mechanical Engineering UNIVERSITY OF EAST SARAJEVO REPUBLIC OF SRPSKA, BOSNIA AND HERZEGOVINA

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CONFERECE PROGRAM

Thursday, 7 September 2017

CULTURAL CENTER TREBINJE

Address: Trg palih boraca 1, Trebinje

Time	Place	Activity	
8:00 - 10:00	Entrance hall	Registration of the participants	
10:00 - 11:00	Cinema hall	Conference Opening Ceremony	
11:00 - 12:00	Entrance hall	Welcome Cocktail	
12:00 - 13:30	Cinema hall	Plenary session - Introductory lectures: Vojislav MILTENOVIĆ, ROLE, IMPORTANCE AND MISSION OF ADEKO Milosav OGNJANOVIĆ, GEAR TRANSMISSION FAILURES AND FAILURE BASED DESIGN Petar V. VUKOSLAVČEVIĆ, THE INFLUENCE OF THE DESIGN FLOW RATE ON THE ECONOMICAL AND ECOLOGICAL ASPECTS OF SHP - SMALL HYDROPOWER PLANTS	
13:30 - 16:00 FREE TIME			

Thursday, 7 September 2017

PRODUCTION AND MANAGEMENT FACULTY TREBINJE

Time	Place	Activity	
00:	Amphi- theater	1/3 - Mechanical Systems and Elements	
16:00 – 18:00	Room 2	1/2 - New Production Technologies and Materials	
16:	Room 1	Hydro and Thermal Power Plants	
18:00 - 18:15	Entrance hall	Coffee Break	
18:15 - 20:00	Amphi- theater	Presentations of companies, products and equipment: 1. BerDiz Consulting AB, Göteborg – Sverige 2. TRC pro d.o.o za inženjering i usluge	
────────────────────────────────────			
		FREE TIME	

Friday, 8 September 2017

PRODUCTION AND MANAGEMENT FACULTY TREBINJE Address: Stepe Stepanovica bb

Time	Place	Activity
1:00	Room 1	2/3 - Mechanical Systems and Elements
09:00 - 11:00	Room 5	2/2 - New Production Technologies and Materials
):60	Room 2	Sustainable Development in the Energy Industry
11:00 - 12:00	Amphi- theater	Plenary session - Lectures by invitation: Klaus - Peter KAEMPER, MICRO SYSTEM TECHNOLOGY AND INDUSTRIAL APPLICATION - STATE OF THE ART AND CURRENT TRENDS
12:00 - 13:30	Amphi- theater	 Panel - discussion: INDUSTRY 4.0 – POSSIBILITIES AND CHALLENGES FOR THE COUNTRIES OF THE REGION Moderators: Radivoje MITROVIĆ, Faculty of Mechanical Engineering Belgrade; Radoslav TOMOVIĆ, Faculty of Mechanical Engineering Podgorica; Biljana MARKOVIĆ, Faculty of Mechanical Engineering East Sarajevo; Luka PETROVIĆ, Mayor of Trebinje.
13:30 - 16:00 FREE TIME		

Friday, 8 September 2017

PRODUCTION AND MANAGEMENT FACULTY TREBINJE

Time	Place	Activity	
_	Room 5	3/3 - Mechanical Systems and Elements	
16:00 – 17:30	Room 2	Power and Motion Transmission Systems	
16:	Room 1	Mechanical Systems Monitoring and Maintenance	
17:30 - 17:45	Entrance hall	Coffee Break	
17:45 - 19:00	Amphi- theater	Presentations of companies, products and equipment: ANDRITZ HYDRO GmbH	
		19:00 - 20	
FREE TIME			
19:00 - 20			
Gala Dinner Hotel LEOTAR Address: Luke Vukalovica 1, Trebinje			

Saturday, 9 September 2017

PRODUCTION AND MANAGEMENT FACULTY TREBINJE

Time	Place	Activity
09:00 - 10:00	Amphitheater	Student Session
10:30 - 11:30	The venue is in front of the building of the HPP at Trebišnjica	 Student Session - Competition CREATIVE DESIGN OF MINI HYDRO POWER PLANTS Evaluators: Mirko BLAGOJEVIĆ, University of Kragujevac; Boro VUJIČIĆ, Mine and Thermal Power Plant Gacko; Gordan MIŠELJIĆ, Hydroelectric Power Plant at Trebišnjica.
12:00 - 13:00	Amphitheater	 Closing remarks of the Conference CONFERENCE REPORT AND CONCLUSIONS Moderators: Radoslav TOMOVIĆ, Faculty of Mechanical Engineering Podgorica; Dušan JOKANOVIĆ, Production and Management Faculty Trebinje; Ranko ANTUNOVIĆ, Faculty of Mechanical Engineering East Sarajevo
13:00 - 14:00	Room 1	ADEKO Association Meeting HOST PROPOSAL FOR THE NEXT "IRMES" CONFERENCE Moderator: Radivoje MITROVIĆ, Faculty of Mechanical Engineering Belgrade

Saturday, 9 September 2017

PRODUCTION AND MANAGEMENT FACULTY TREBINJE

Time	Place	Activity
16:00 - 20:00	Meeting point is in front of the Production and Management Faculty Trebinje	 Visit to Tvrdos Monastery (Orthodox Monastery in Trebinje) Wine Tasting in Tvrdos Monastery Sightseeing Trebinje Visit to Hercegovacka Gracanica (Orthodox Church)

WORK IN SECTIONS

Thursday, 7 September 2017			
Time Place Activi		Activity	
8:00	Amphi- theater	1/3 - Mechanical Systems and Elements	
16:00 - 18:00		Chairpersons: Janko JOVANOVIĆ Jelena STEFANOVIĆ-MARINOVIĆ Milan RACKOV	
ROOT C	1. Samir DIZDAR, Radoslav TOMOVIĆ, Adisa VUČINA ROOT CAUSE ANALYSIS OF MICRO CRACKS OF HYDROGEN REFORMER HG		
NIKOL EXAMI	2. Lubomir DIMITROV, Georgi DIMCHEV, Pancho TOMOV, Kiril NIKOLOV EXAMINATION OF ULTIMATE BENDING STRENGTH OF POWDER METALLUGRY GEARS		
	AL PROFILES	stina TUDOSE, Constantin URSACHE OF CYLINDRICAL ROLLERS OF ROLLING	
AL-BAS COMPA OFTHE FRICTIO	4. Amir Al-SAMMARRAIE, Dragan MILČIĆ, Milan BANIĆ, Sulaiman AL-BASAQR, Sabah SALIH COMPARABILITY OF EXERIMENTAL AND ANALYTICAL STUDY OFTHE EFFECT RADIAL LOAD AND ROTATION SPEED ON FRICTION COEFFICIENT OF RADIAL PLAIN BEARING UNDER LUBRICANT CONDITIONS USING RAIMONDI AND BOYD'S CHARTS		
RELIAE LIQUID	5. Dečan IVANOVIĆ RELIABILITY OF NECESSARY PRESSURE FROM THE REQUIRED LIQUID QUANTITY FOR LUBRICATION OF ENGINE CYLINDER IN THE PERIOD OF ONE WORKING CYCLE FOR UNSTEADY FLUID FLOW		
THE CO	Tibor POÓS, Dániel HORVÁTH, Kornél TAMÁSH THE COMPARE OF ANGLES OF REPOSE WITH DISCRETE ELEMENT METHOD AND MEASUREMENT		

- 7. Milan BANIĆ, Dušan STAMENKOVIĆ, Miloš MILOŠEVIĆ, Aleksandar MILTENOVIĆ DETERMINATION OF WEAR IN CONTACT OF WHEEL-RAIL SET USING FEM
- 8. Vladimir JERZ DETERMINING THE BOUNDARIES OF PREDICTION INTERVALS IN SERVICE NETWORKS USING SIMULATION
- 9. **Ján DANKO, Tomáš MILESICH, Jozef BUCHA** VEHICLE DRIVING SAFETY AND RIDE COMFORT IMPROVEMENT WITH MAGNETORHEOLOGICAL SHOCK ABSORBERS
- 10. Jozef BUCHA, Ján DANKO, Tomáš MILESICH IMPACT OF THE SUSPENSION PARAMETERS ON THE VERTICAL DYNAMICS OF THE VW E-UP
- 11. Bohumil KOTLARIK, Janka SULOVA, Zuzana FILOVÁ, Alena KOZAKOVA, Katarína KUBALOVÁ, Daša KRUPEJOVÁ THE NEW METHOD OF INCREASING THE AMOUNT OF RESIN IN THE WINDING OF MOTOR

	Thursday, 7 September 2017			
]	Time Place		Activity	
	18:00		1/2 - New Production Technologies and Materials	
	16:00 - 18:00	Room 2	Chairpersons: Marina MIJANOVIĆ MARKUŠ Blaža STOJANOVIĆ Radoslav VUČUROVIĆ	
1.		RMINATION C	n VUKČEVIĆ DF KINEMATIC STATE IN BULK METAL	
2.	Vladim TOPOC	iir BLANUŠA GRAPHY OF C	C, Sandra SOVILJ-NIKIĆ, Bogdan SOVILJ, CHARACTERISTIC SURFACES OF MODEL HOB DR MACHINING OF GEAR SERRATION	
3.	Andreja ILIĆ, Lozica IVANOVIĆ, Blaža STOJANOVIĆ, Danica JOSIFOVIĆ, Eleonora DESNICA IMPACT TOUGHNESS OF HIGH-STRENGTH LOW-ALLOY STEEL WELDED JOINTS			
4.	Aleksija ĐURIĆ, Biljana MARKOVIĆ FAILURE MODE AND STRENGTH ANALYSES OF RESISTANCE SPOT WELD JOINTS OF ALUMINIUM AND AUSTENITIC STAINLESS STEEL SHEET			
5.	Svetlana RISTESKA, Blagoja SAMAKOSKI, Vladimir DUKOVSKI ADVANCED FW AND AFP/ATL TECNOLOGIES FOR PRODUCTION OF COMPLEX PARTS OF COMPOSITE MATERIALS			
6.	APPLI FIBRE	Jasmina BLAGOJEVIĆ, Zorica DJORDJEVIĆ, Sandra VELIČKOVIĆ APPLICATION OF TAGUCHI METHODS WITH OPTIMIZATION OF FIBRE ORIENTATION ANGLE OF LAMINATED AL/ARAMID/EPOXY COMPOSITE CARDAN SHAFT		
7.	Saša ŽIVANOVIĆ RAPID PROTOTYPING AND MANUFACTURING FOR MODEL OF HUMAN HEAD			

	Thursday, 7 September 2017			
TimePlaceActivity		Activity		
	18:00		Hydro and Thermal Power Plants	
	16:00 - 18:00	Room 1	Chairpersons: Safet ISIĆ Vladan IVANOVIĆ Radislav BRĐANIN	
1.	DESIG		ernej MAZIJ, Uroš KARADŽIĆ HAMMER CONTROL STRATEGIES IN NTS	
2.	ĐURIŠ THE N	SIĆ, Marko Ll	CALCULATION BIFURCATION A6 OF PIPELINE	
3.	ANAL		Milan VUKČEVIĆ NOMIC JUSTIFICATION OF CONSTRUCTING A WER PLANT	
4.	Radisla APPLI	Branka GVOZDENAC UROŠEVIĆ, Budimirka MARINOVIĆ, Radislav BRĐANIN, Željko ĐURIĆ APPLICATION OF PROMETHEE METHOD AS SUPORT IN THE PLANNING PROCESS OF SMALL HYDROPOWER PLANTS		
5.	DEVEI	Dragan MILČIĆ, Miodrag VELIMIROVIĆ, Miodrag MILČIĆ DEVELOPMENT OF WORK PLATFORMS FOR MAINTENANCE OF PENSTOCK HPP PIROT		
6.	Miloš KRUNIĆ, Ivan BOŽIĆ NUMERICAL ANALYSES OF TRASH RACKS CHARACTERISTICS UNDER DIFFERENT EXPLOITATION CONDITIONS IN HYDROPOWER PLANTS			
7.	Jovan ILIĆ, Ivan BOŽIĆ ANALYSIS OF TRANSIENTS IN HYDROELECTRIC POWER PLANTS FOR SPECIFICIED OPERATIONAL REGIMES			
8.	KRSTI THE FI	Miroslav CRNČEVIĆ, Dragan ŽIVIĆ, Aleksandar GLIŠIĆ, Perica KRSTIĆ THE FIRST FLUE GAS DESULPHURIZATION PLANT FOR THE COAL-BURNING THERMAL POWER PLANTS IN SERBIA		
9.	THERM	MODYNAMIC	irko DOBRNJAC CANALYSIS OF SYSTEM OF LOW-PRESSURE D-ENERGY PLANT	

	Friday, 8 September 2017			
ſ	Time Place		Activity	
	11:00		2/3 - Mechanical Systems and Elements	
	00:11 - 00:60 Room 1	Chairpersons: Biljana MARKOVIĆ Ninoslav ZUBER Nebojša RAŠOVIĆ		
1.		CAL ANALYS	, Janko JOVANOVIĆ, Radoslav TOMOVIĆ SIS OF MEASUREMENTS IN A VEHICLE BRAKE	
2.	2. Lozica IVANOVIĆ, Andreja ILIĆ, Blaža STOJANOVIĆ, Jasna GLIŠOVIĆ, Miloš MATEJIĆ INFLUENCE OF LEAKAGE CLEARANCE ON PRESSURE VARIATION IN GEROTOR PUMP CHAMBERS			
3.	Marko PENČIĆ, Maja ČAVIĆ, Milan RACKOV OPTIMAL SYNTHESIS OF THE ROBOT EYES DRIVE SYSTEM WITH 7 DOFs			
4.	Emina PETROVIĆ, Miloš SIMONOVIĆ, Ivan ĆIRIĆ, Vlastimir NIKOLIĆ HUMAN ACTION RECOGNITION BY ROBOT VISION SYSTEM BASED ON KALMAN FILTER AND NEURAL NETWORK CLASSIFICATION			
5.	Boris STOJIĆ VIBRATION CHARACTERISTICS STUDY OF SELF-PROPELLED MACHINE FOR CORN SPRAYING AND DETASSELING			
6.	Milan VUKČEVIĆ, Nikola ŠIBALIĆ, Marina MIJANOVIĆ, Darko SKUPNJAK CAD/CAM INTEGRATION OF THE FORKED ROD DESIGN OF THE SERVICE ROBOT CONTROL MECHANISM			
7.			VIĆ, Igor ANTIĆ, Rodoljub VUJANAC CALCULATION OF A BELT CONVEYOR	
8.	Radoslav TOMOVIĆ DEVELOPMENT OF THE CONSTRUCTION FOR THE EXAMINATION OF ROLLING BEARINGS			

	Friday, 8 September 2017			
]	Time Place		Activity	
	11:00		2/2 - New Production Technologies and Materials	
	09:00 - 11:00	Room 5	Chairpersons: Milan ZELJKOVIĆ Obrad SPAIĆ Milan BANIĆ	
1.	1. Dalibor PETKOVIĆ, Miloš MILOVANČEVIĆ PREDICTION OF THE OPTIMAL MICRO HARDNESS AND CRYSTALLINE SIZE OF NANOSTRUCTURE VIA MACHINING AND NEURO-FUZZY TECHNIQUE			
2.	2. Miloš MILOVANČEVIĆ, Dalibor PETKOVIĆ PREDICTION OF THE FLOW STRESS OF TITANIUM ALLOY LOADED WITH HIGH STRAIN AT VARIOUS TEMPERATURES BY ADAPTIVE NEURO-FUZZY TEHNIQUE			
3.	Obrad SPAIĆ, Aleksandra KOPRIVICA, Mirjana JOKANOVIĆ, Srđan ĆURIĆ THE INFLUENCE OF THE INPUT PARAMETERS TO THE DIMENSIONAL ACCURACY OF THE 3D PRINTED PROTOTYPE			
4.	Vladimir PUCOVSKI, Milenko SEKULIĆ, Marin GOSTIMIROVIĆ, Pavel KOVAČ, Borislav SAVKOVIĆ, Darko JOVANOVIĆ CUTTING FORCES DURING ULTRASONIC ASSISTED TURNING OF HARD TO MACHINE MATERIAL SPM10			
5.	Gojko VLADIĆ, Dragoljub NOVAKOVIĆ, Nemanja KAŠIKOVIĆ, Neda MILIĆ, Sandra DEDIJER THE USE OF MODERN INFORMATION TECHNOLOGIES IN THE EDUCATIONAL PROCESS OF GRAPHIC ENGINEERS AND DESIGNERS			
6.	LASER	ES WITH TH	VIĆ, Mileta JANJIĆ E SOLID EASY AND THEIR APPLICATIONS FOR NSPARENT MATERIALS	

	Friday, 8 September 2017			
,	Time	Place	Activity	
	11:00		Sustainable Development in the Energy Industry	
	09:00 - 11:00	Room 2	Chairpersons: Ranko ANTUNOVIĆ Budimirka MARINOVIĆ Milan TICA	
1.	Dragan CONTE OPERA	STOŠIĆ, Sne MPORARY A TIONS AND N	C, Dragan JOVANOVIČ, Gradimir IVANOVIĆ, žana PANTELIĆ, Dragan STEVIĆ PPROACH TO AUXILIARY MECHANIZATION MAINTENANCE AT AN OPEN-PIT COAL MINE	
2.	NIKOL FUEL M	IĆ, Rastko NI 1ANAGEMEN	gan STEVIĆ, Snežana PANTELIĆ, Nenad EGOIČIĆ, Filip TODOROVI T AT AUXILIARY MECHANIZATION OF OPEN- PORTED BY MODERN ICT	
3.	CONTR	IBUTION OF	E sad TOMBAREVIĆ THERMAL POWER PLANT TO THE IMMISION NTER OF PLJEVLJA	
4.	Isak KARABEGOVIĆ APPLICATION OF NEW TECHNOLOGIES IN THE DEVELOPMENT AND INCREASE OF WIND POWER PLANT CAPACITY			
5.	Mirjana JOKANOVIĆ, Dušan GOLUBOVIĆ, Blagoje ŠUPIĆ, Aleksandra KOPRIVICA APPLICATION OF RENEWABLE ENERGY SOURCES IN TERMS OF ECONOMIC, ENVIRONMENTAL AND SOCIAL SUSTAINABILITY			
6.	Zdravko BIJELIĆ, Biljana MILANOVIĆ, Mijana JOVIŠIĆ, Bojan JELAČIĆ RESEARCH OF DEVELOPMENT AND PRODUCTION EFFECTS MACHINERY AND ELECTRIC SYSTEM FOR HYDRO POWER PLANTS ON THE BASIS OF ITS TECHNOLOGIES			
7.	Stanka KULJIĆ, Uroš KARADŽIĆ HYDRAULIC ANALYSIS OF THE WATER SUPPLY SYSTEM IN TOWN NEVESINJE			
8.	Beno ARBITER, Filip KOKALJ, Aleksandar JOVOVIĆ, Niko SAMEC SIMPLIFIED EQUILIBRIUM MODEL FOR BIOMASS AND WASTE GASIFICATION			
9.	Borivoje VUJIČIĆ, Ženja VUJOVIĆ ANALYSIS COMBUSTION LIGNITE OF GACKO IN THE STEAM BOILER P - 64			

	Friday, 8 September 2017					
]	ſime	Place	Activity			
16:00 - 17:30		Room 5	3/3 - Mechanical Systems and Elements			
			Chairpersons: Dragan MILČIĆ Lozica IVANOVIĆ Nikola ŠIBALIĆ			
1.	Biljana MARKOVIĆ, Lozica IVANOVIĆ, Aleksija ĐURIĆ PRODUCT DEVELOPMENT PROCESS REGARDING TO CUSTOMER EMOTIONAL					
2.	Nenad MARJANOVIĆ, Nenad KOSTIĆ, Nenad PETROVIĆ, Mirko BLAGOJEVIĆ, Miloš MATEJIĆ A NEW MODIFICATION OF GENETIC ALGORITHM FOR SOLVING ENGINEERING OPTIMIZATION PROBLEMS					
3.	Saša RANĐELOVIĆ, Dejan MOVRIN, Mladomir MILUTINOVIĆ, Srđan MLADENOVIĆ, Vladislav BLAGOJEVIĆ CONTERPORARY DESIGN AND RECONSTRUCTIVE ENGINEERING BY FDM METHOD					
4.	Branislav DIMITRIJEVIĆ, Milan BANIĆ, Žarko MIŠKOVIĆ, Radivoje MITROVIĆ, Aleksandar MILTENOVIĆ, Miša TOMIĆ DETERMINATION OF MUSCLE TISSUE PROPERTIES FOR FEA APPLICATIONS					
5.	Inga KREŠIĆ, Nebojša RAŠOVIĆ ADJUSTED DESIGN OF A COMPUTER MOUSE WITH ERGONOMIC REQUIREMENTS					
6.	Dragiša SKOKO, Mileta RISTIVOJEVIĆ, Cvetko CRNOJEVIĆ EFFECTS OF OUTLET NOZZLE SLOPE ANGLE ON ACCURACY OF MACHINE PARTS' GEOMETRICAL CONTROL					
7.	Milan TICA, Milan RACKOV, Djordje MILTENOVIĆ, Aleksandar MILTENOVIĆ, Milan BANIĆ CONCEPT SOLUTION OF THE SAFETY SYSTEM FOR AVOIDING WRONG FUEL USING IN CARS AND PREVENTION OF DAMAGE					

	Friday, 8 September 2017					
Time		Place	Activity			
	17:30		Power and Motion Transmission Systems			
	16:00 - 17:30	Room 2	Chairpersons: Milan VUKČEVIĆ Nenad MARJANOVIĆ Gojko KRUNIĆ			
1.	Mileta RISTIVOJEVIĆ, Bozidar ROSIĆ, Aleksandar DIMIĆ THE INFLUENCE OF HELIX ANGLE ON THE LOAD CAPACITY OF CYLINDRICAL GEAR TEETH FLANKS					
2.	Aleksandar ŽIVKOVIĆ, Milan ZELJKOVIĆ, Slobodan TABAKOVIĆ INFLUENCE TEMPERATURE ON STIFFNESS MATRIX FOR PAIRED (DUPLEX) ANGULAR CONTACT BALL BEARINGS					
3.	Janko JOVANOVIĆ, Radoš BULATOVIĆ ON THE FRICTIONAL HEATING OF SPUR GEARS OPERATING UNDER LOW ROTATIONAL SPEEDS					
4.	Ivana ATANASOVSKA, Saravanan KARUPPANAN, Santosh PATIL NEW METHODOLOGIES FOR GEAR DESIGN IN ENERGY EFFICIENT POWER TRANSMISSIONS					
5.	Ivana ATANASOVSKA, Katica R. (STEVANOVIĆ) HEDRIH COMPARATIVE ANALYSIS OF VIBRO-IMPACT OSCILLATIONS OF SPUR GEAR PAIR FOR VARIATION OF GEARS TRANSMISSION RATIO					
6.						
7.	Blaža STOJANOVIĆ, Saša RADOSAVLJEVIĆ, Sandra VELIČKOVIĆ, Slavica MILADINOVIĆ, Milan BUKVIĆ THE INFLUENCE OF LUBRICANT VISCOSITY ON THE EFFICIENCY OF WORM GEAR REDUCER					
8.	Milan RACKOV, Mirko BLAGOJEVIĆ, Siniša KUZMANOVIĆ, Miloš MATEJIĆ, Ivan KNEŽEVIĆ, Maja ČAVIĆ, Marko PENČIĆ ANALYSIS OF THE TEETH NUMBER INFLUENCE ON THE GEAR MODULE SIZE AND LOAD CARRYING CAPACITY OF GEAR PAIR OF UNIVERSAL HELICAL GEAR DRIVES					
9.	Vesna JELIĆ, Nataša SOLDAT, Zoran STAMENIĆ IMPROVING THE PERFORMANCE OF BALL ROLLER BEARINGS USING NEW MATERIALS					

	Friday, 8 September 2017					
Time		Place	Activity			
	17:30		Mechanical Systems Monitoring and Maintenance			
	16:00 - 17:30	Room 1	Chairpersons: Milorad BURIĆ Uroš KARADŽIĆ Adisa VUČINA			
1.						
2.	Miodrag ARSIĆ, Srđan BOŠNJAK, Mladen MLADENOVIĆ, Zoranka MALEŠEVIĆ, Zoran SAVIĆ METHODOLOGY FOR THE REPAIR OF DAMAGES THAT OCCURRED ON THE WELDED JOINTS AT THE BODY OF GUIDE VANE APPARATUS VANES OF THE VERTICAL KAPLAN TURBINE					
3.	Drakče TANASKOVIĆ, Branislav ĐORĐEVIĆ, Uroš TATIĆ, Aleksandar SEDMAK, Mirjana OPAČIĆ REPAIR WELDING OF GEAR SHAFTS OF SERVICE ROLLERS AT THE ŽELEZARA SMEDEREVO					
4.	Drakče TANASKOVIĆ, Branislav ĐORĐEVIĆ, Simon SEDMAK, Uroš TATIĆ, Marko GAJIN THE CASE OF UNSUCCESSFUL REPAIR WELDING OF A TREIBER ROLL					
5.	Safet ISIĆ, Mensud ÐIDELIJA MAINTENANCE OF AXIAL BEARING OF KAPLAN TURBINE					
6.	Ninoslav ZUBER CHALLENGES OF ROLLING ELEMENT BEARINGS FAULT DETECTION BASED ON VIBRATION SIGNAL MEASUREMENT AND ANALYSIS					
7.	Ranko ANTUNOVIĆ, Nikola VUČETIĆ SELECTION OF RELIABLE VBRODIAGNOSTIC MODEL ROTATION MACHINES					
8.	Emir NEZIRIĆ, Safet ISIĆ, Edin DŽIHO VIBRATION ANALYSIS AND REPAIR PROCESS FOR THE VENTILATION SYSTEM FOR SMOKE DRAIN IN THE THERMAL POWER PLANT					

	Saturday, 9 September 2017				
, r	Time Place		Activity		
	10:00	Amphi- theater	Student Session		
	09:00 - 10:00		Chairpersons: Mirko BLAGOJEVIĆ Borivoje VUJIČIĆ Gordan MIŠELJIĆ		
1.					
2.	Kenan PELKO, Edmin HAKALOVIĆ, Arnel MAKSUMIĆ, Muhamed GOSTO, Jasmina ŠENDRO, Safet ISIĆ CONSTRUCTION OF PELTONS MINI HYDROPOWER PLANT				
3.	Enis HABUL, Armin MUŠIĆ, Muhamed GRAČIĆ, Sven BOREC, Mirsad BERBEROVIĆ, Emir NEZIRIĆ ACHIEVING LOW COST, HIGH EFFICIENCY PELTON TURBINE				
4.	Ahmed TAJAR, Samir RUSTEMPAŠIĆ, Amir OMERAGIĆ, Sead IMAMOVIĆ, Alem KARAOSMANOVIĆ, Emir NEZIRIĆ HYDROTURBINE MADE FROM RECYCLED SCRAP MATERIALS				
5.	Kenan STARČEVIĆ, Nihad BEŠIĆ, Izet AHMIČEVIĆ, Dragi TIRO MINI HYDRO POWER PLANT				
6.	Aleksandar TOMOVIĆ, Vasilije SAMARDŽIĆ, Marko RAŠOVIĆ, Marko MUMOVIĆ, Vuk VUJOŠEVIĆ, Zoran MIJANOVIĆ CNC PLOTTER				
7.	Slavoljub MARKOVIĆ, Dino TIHIĆ, Srđan ĐERIĆ, Biljana MARKOVIĆ DEVELOPMENT OF A THERMAL POWER PLANT TUBULAR BOILER CLEANING MACHINE				
8.	Aleksandar TOMOVIĆ, Marko MUMOVIĆ, Vasilije SAMARDŽIĆ, Vuk VUJOŠEVIĆ, Marko RAŠOVIĆ, Marina MIJANOVIĆ MARKUŠ MOBILE NXT ROBOT THAT IS MANAGED VIA A BLUETOOTH CONNECTION				
9.	Marko MUMOVIĆ, Vuk VUJOŠEVIĆ, Vasilije SAMARDŽIĆ, Aleksandar TOMOVIĆ, Marko RAŠOVIĆ, Zoran MIJANOVIĆ TRAINABLE ROBOTIC ARM				
10.	Vasilije SAMARDŽIĆ, Vuk VUJOŠEVIĆ, Marko RAŠOVIĆ, Aleksandar TOMOVIĆ, Marko MUMOVIĆ, Marina MIJANOVIĆ MARKUŠ TACHOMETER BASED ON A HALL EFFECT				







