



University of Banja Luka
Faculty of Mechanical Engineering



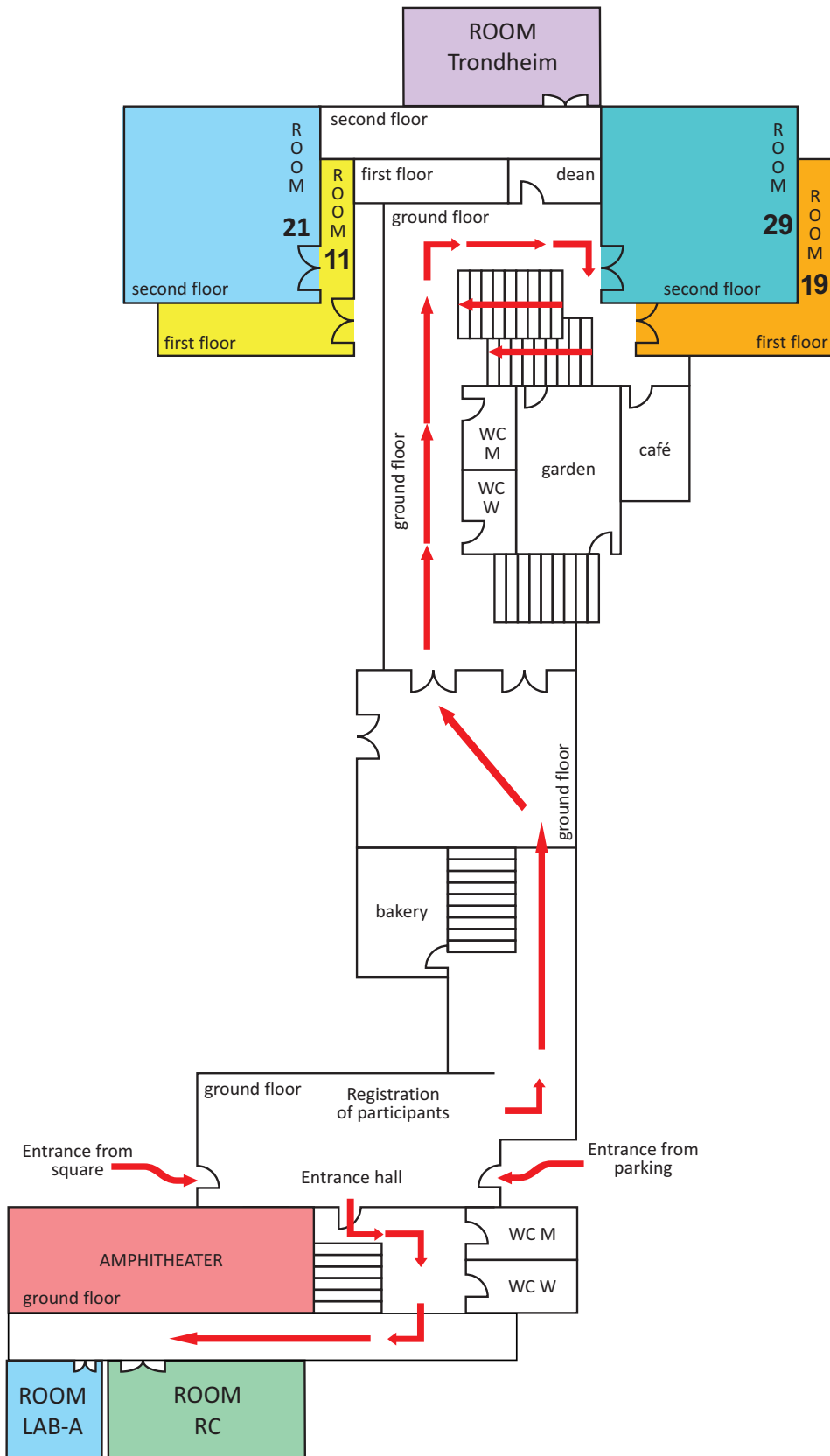
DEMI 2017

**13th International Conference on
Accomplishments in Mechanical and Industrial
Engineering**

CONFERENCE PROGRAM



Banja Luka, 26 - 27 May 2017



University of Banja Luka
Faculty of Mechanical Engineering

CONFERENCE PROGRAM

Banja Luka, May 2017

**13th INTERNATIONAL CONFERENCE ON ACCOMPLISHMENTS IN
MECHANICAL AND INDUSTRIAL ENGINEERING**

DEMI 2017

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CONFERENCE PROGRAM		
Friday, the 26th May		
TIME	PLACE	ACTIVITY
9.00 – 10.00	Entrance hall	Registration of the participants
10.00 – 11.00	Amphitheater	Conference Opening
11.00 - 12.30	Amphitheater	Keynote Lectures:
		Vojislav Novakovic INTEGRATED ENERGY DESIGN – MULTIDISCIPLINARY APPROACH TO DESIGN OF BUILDINGS
		Sorin Ioan Deaconu DUAL STATOR WINDING CAGE INDUCTION GENERATOR FOR WIND OR HYDRO VARIABLE SPEED LOW POWER CONVERSION ENERGY SYSTEM
		Atul Bhaskar, Enrique Cuan-Urquizo, Alessandra Bonfanti, Hayk Vasilyan, Tigran Saghatelyan, Loris Domenicale, S.J.A. Rizvi, Naresh Bhatnagar POROUS AND LATTICE MATERIALS: MECHANICS & MANUFACTURE5
12.30 – 14.00	Entrance hall	Welcome Coctail

15.00 – 18.00	Amphitheater, Room 11, Room19, Room 21, Room 29, Room LAB-A, Room RC and Room Trongheim	
		Work in Sections:
		Friday, the 26th May
		Saturday, the 27th May
18.00 – 20.00 Free Time		
20.00	Gala Dinner Restaurant "INTEGRA" Address: Trg Republike Srpske br. 8/XIV 78 000 Banja Luka, Republika Srpska	

Work in Sections- Friday, the 26th May		
15.00 – 18.00	Room 11	Section I 1/2 PRODUCTION AND COMPUTER-AIDED TECHNOLOGIES
		Moderators: Milan Zeljković Davorin Kramar Čiča Đorđe
1.	Saša Živanovic, Nikola Slaković, Dragan Milutinović, Zoran Dimić CONFIGURING OF VIRTUAL 5-AXIS HYBRID KINEMATIC MILLING MACHINE	
2.	Marin Gostimirović, Pavel Kovač, Milenko Sekulić, Mijodrag Milosević, Dejan Lukić INVERSE THERMAL MODELING OF THE ELECTRICAL DISCHARGE MACHINING	
3.	Nikola Slaković, Saša Živanovic, Dragan Milutinović, Branko Kokotović ROBOT MACHINING SIMULATION IN STEP-NC MACHINE ENVIRONMENT	
4.	Samir Butković, Emir Šarić, Muhamed Mehmedović MICROSTRUCTURAL CHANGES DURING HEAT TREATMENT OF SINTERED AUSTENITIC NICKEL-FREE STAINLESS STEEL	
5.	Dejan Lukić, Mijodrag Milošević, Mića Đurđev, Jovan Vukman, Aco Antić OPTIMIZATION OF OPERATION SEQUENCING USING PRECEDENCE CONSTRAINTS AND SIMULATION TECHNIQUE	

6.	Elvin Okugić, Milan Jurković THE ANALYSIS OF TECHNOLOGICAL PROCESS IN MANUFACTURING FACILITY "SANI GLOBAL" AND PROPOSED MEASURES TO IMPROVE THE PROCESS
7.	Amir Ćorlaić, Anel Maslo, Mersida Manjgo, Senad Rahimić SIMULATION CASTING POINT IN THE PROCESS OF PLASTIC INJECTION UNDER
8.	Srbislav Aleksandrović, Slaviša Đačić, Milentije Stefanović, Milan Đorđević, Vukić Lazić, Dušan Arsić INFLUENCE OF PROCESS PARAMETERS ON THE FRICTION COEFFICIENT IN ONE AND MULTI PHASE STEEL STRIP DRAWING IRONING TEST
9.	David Muženić, Gordana Globočki Lakić, Branislav Sredanović, Davorin Kramar, EMPIRICAL MODELLING OF LASER ASSISTED MILLING; OVERVIEW AND CASE STUDY
10.	Nenad Petrović, Nenad Marjanović, Nenad Kostić, Mirko Blagojević, Miloš Matejić SIZING OPTIMIZATION OF PARAMETRICALLY DESIGNED TRUSSES

Work in Sections - Friday, the 26th May

15.00 - 18.00	Amphitheater	Section II 1/2 ENERGETICS AND THERMAL ENGINEERING
		Moderators: Predrag Živković Petar Gvero Uroš Karadžić

1.	Andreja Stefanović THE IMPACT OF PARTIAL REFURBISHMENT ON THE HEATING ENERGY CONSUMPTION OF A RESIDENTIAL BUILDING SECTOR
2.	Igor Shesho, Done Tashevski, Filip Mojsovski METHODOLOGY FOR TECHNO-ECONOMIC OPTIMIZATION OF SOLAR ASSISTED HEATING SYSTEMS
3.	Veselin Blagojević, Nebojša Lukić, Novak Nikolić, Aleksandar Nešović HEAT RECOVERY OF VENTILATION AIR IN EXISTING EDUCATIONAL BUILDING IN DOBOJ
4.	Danijela Nikolić, Jasmina Skerlic, Vanja Šušteršič, Vanja Šušteršič, Aleksandar Mišković INFLUENCE OF HOT WATER TEMPERATURE IN DHW SYSTEM ON BUILDING EXERGY OPTIMIZATION

5.	Sadoon Ayed, Predrag Živković, Mladen Tomić, Mirko Dobrnjac, Janja Branković, Gradimir Ilić EXPERIMENTAL STUDY RAYLEIGH–BÉNARD CONVECTION IN A RECTANGULAR MOTOR OIL TANK
6.	Uroš Karadžić, Marko Janković, Filip Strunjaš INFLUENCE OF THE INITIAL CONDITIONS ON WATER HAMMER IN RESERVOIR-PIPELINE-VALVE SYSTEM
7.	Veselin Blagojević, Vanja Šušteršić POSSIBILITY OF USE HEAT ENERGY FROM WASTE WATER SEWAGE SYSTEM FOR HEATING OF BUILDINGS
8.	Kire Popovski, Aleksandar Trajkovski, Blagoj Ristovski, Igor Popovski COMPUTER PROGRAM FOR CALCULATING HEAT TRANSFER THROUGH TRANSPARENT WALLS IN GLASS HOUSE COATED WITH FOIL
9.	Kire Popovski, Aleksandar Trajkovski, Blagoj Ristovski, Igor Popovski COMPUTER PROGRAM FOR CALCULATING DISTRIBUTION OF WATERFLOW IN HEAT EXCHANGERS WHICH ARE USED IN GRAPHIC INDUSTRY
10.	Saša Pavlović, Evangelos Bellos, Velimir Stefanović, Christos Tzivanidis EXPERIMENTAL AND NUMERICAL INVESTIGATION OF A SOLAR DISH COLLECTOR WITH SPIRAL ABSORBER
11.	Danijela Kardaš, Petar Gvero, Siniša Rodić INSTITUTIONALIZATION OF ENERGY MANAGEMENT INFORMATION SYSTEM IN REPUBLIC OF SRPSKA
12.	Šefko Šikalo, Aleksandra Kostić AN EQUATION FOR FITTING SPREADING DIAMETER OF A LIQUID DROPLET IMPACTING ON FLAT SURFACES
13.	Marko Serafimov, Filip Mojsovski, Igor Šešo IMPACT OF INDOOR AIR QUALITY ON HEALTH EFFECTS
14.	Zajim Aljicevic, Aleksandra Kostic, Nediz Dautbašić SELECTING LOCATION FOR INFRASTRUCTURAL INVESTMENT PROJECT IN RENEWABLE SOURCES OF ENERGY USING MATLAB AND FUZZY LOGIC
15.	Miloš B. Radojević, Nebojša G. Manić, Vladimir V. Jovanović, Dragoslava D. Stojilković, METHODOLOGY AND CHALLENGES OF CALIBRATING THE INSTRUMENT FOR SIMULTANEOUS THERMAL ANALYSIS
16.	Živan Spasić, Miloš Jovanović, Jasmina Bogdanović Jovanović METHODS FOR PREDICTING THE PERFORMANCE OF CENTRIFUGAL PUMPS WHEN OPERATING IN THE TURBINE MODE

17.	Izudin Delić, Amel Mešić CFD ANALYSIS OF FLUID STREAMING IN ROTARY DRYER
18.	Ivana Terzić, Vanja Šušteršič, Katarina Đonovic COMPARATIVE ANALYSIS OF GEOTHERMAL HEAT PUMPS
19.	Jelena Petrović, Živojin Stamenković, Miloš Kocić, Milica Nikodijević, Jasmina Bogdanović-Jovanović MHD FLOW AND HEAT TRANSFER IN POROUS MEDIUM WITH INDUCED MAGNETIC FIELD EFFECTS

Work in Sections - Friday, the 26th May

15.00 - 18.00	Room 21	Section III 1/2 MECHANICS AND DESIGN
		Moderators: Dragan Milčić Strain Posavljak Radoslav Tomović

1.	Aleksandar Radaković, Dragan Milosavljević, Gordana Bogdanović, Dragan Čukanović, Vladimir Geroski APPLYING THIRD ORDER SHEAR DEFORMATION THEORIES IN THE FREE VIBRATION ANALYSIS OF CROSS-PLY SYMMETRIC AND ANTISYMMETRIC LAMINATE PLATES
2.	Mustafa Hadžalić, Josip Kačmarčik, Alma Žiga OPTIMIZATION OF MINE HOIST ROPE ATTACHMENT ASSEMBLY USING FEM ANALYSIS
3.	Nenad Miloradović, Slobodan Garić, Rodoljub Vujanac MODELLING AND FINITE ELEMENT ANALYSIS OF ELEVATOR BUCKETS
4.	Jelena Stefanović-Marinović, Sanjin Troha TWO-CARRIER TWO-SPEED PLANETARY GEAR TRAINS WITH BRAKES ON SINGLE SHAFTS
5.	Ognjen Ognjanović, Stevan Maksimović, Nenad Vidanović, Gordana Kastratović, Katarina Maksimović STRUCTURAL ANALYSES OF BALISTIC MISSILE FIN CONFIGURATION DURING SUPERSONIC FLIGHT CONDITIONS
6.	Mersida Manjgo, Tomaž Vuherer, Meri Burzić, Eldar Pirić DETERMINATION OF MECHANICAL PROPERTIES OF COMPOSITE MATERIALS - THE RUBBER CONVEYOR BELT WITH CARTRIDGES MADE OF POLYESTER AND POLYAMIDE

7.	Dorđević Zorica, Jovanović Saša, Stanojević Milan, Blagojević Mirko, Veličković Sandra OPTIMIZATION OF FIBER ORIENTATION ANGLE OF A HYBRID Al /COMPOSITE CARDAN SHAFT
8.	Marko Penčić, Maja Čavić, Milan Rackov, Branislav Borovac ASSISTIVE HUMANOID ROBOT MARKO: DEVELOPMENT OF THE WAIST MECHANISM
9.	Stevan Maksimović, Ivana Vasović, Mirko Maksimović, Mirjana Đurić COMPUTATIONS AND EXPERIMENTAL STRENGTH ANALYSIS OF HELICOPTER TAIL ROTOR BLADES MADE FROM COMPOSITE MATERIALS
10.	Delić Marko, Dorđević Zorica, Matejić Miloš, Jovanović Saša CALCULATION OF STRESS STATE OF GEAR MADE OF COMPOSITE MATERIALS
11.	Isak Karabegović THE ROLE OF INDUSTRIAL AND SERVICE ROBOTS IN THE 4th INDUSTRIAL REVOLUTION – “INDUSTRY 4.0”
12.	Nebojša Radić, Dejan Jeremić ANALYTICAL SOLUTION FOR THERMAL VIBRATIONS OF SINGLELAYEREDGRAPHENE SHEETS WITH VARIOUS BOUNDARY CONDITIONS
13.	Milan Rackov, Siniša Kuzmanović, Maja Čavić, Marko Penčić, Ivan Knežević INFLUENCE OF OPERATING AND AMBIENT TEMPERATURE ON LOADCAPACITY OF UNIVERSAL WORM GEAR REDUCER
14.	Sanel Gredelj, Milan Jurković CORRELATION DIMENSION OF NONLINEAR TIME-SERIES AND EXPERIMENTAL ANALYSIS

Work in Sections - Friday, the 26th May

15.00 - 18.00	Room LAB-A	Section IV MECHATRONICS
		Moderators: Cristian Barz Miroslav Rogić Ivan Ćirić

1.	Emina Petrović, Miloš Simonović, Nevena Tomić, Vlastimir Nikolić, Ivan Ćirić NEURAL NETWORK BASED SYSTEM FOR HUMAN ACTION RECOGNITION
2.	Biljana Đorđević, Boban Andjelković, Natasa Zdravković COEFFICIENT CONTRAST ASSESMENT OF THE HOMOMORPHIC FILTERING BASED ON IMAGE HISTOGRAM
3.	Miloš Simonović, Emina Petrović, Vlastimir Nikolić, Ivan Ćirić, Aleksandar Miltenović ADVANCED OPTIMIZATION TECHNIQUES FOR MARSHALLING YARD MANAGEMENT PROBLEM
4.	Milan Pavlović, Vlastimir Nikolić, Ivan Ćirić, Milica Ćirić APPLICATION OF THERMAL IMAGING SYSTEMS FOR OBJECT DETECTION
5.	Radoslav Tomović NEW APPROACH IN THE RESEARCH OF DYNAMIC BEHAVIOR OF ROLLING ELEMENT BEARING
6.	Jelena Eric Obučina, Stevan Stankovski, Vladimir Savić, Gordana Ostojić, Stanimir Čajetinac ENERGY SAVINGS USING FREQUENCY REGULATION IN THE HYDRAULIC SYSTEM WITH A PUMP OF CONSTANT DISPLACEMENT AUTOMOTIVE AND TRAFFIC ENGINEERING
7.	Tihomir Latinović, Mladen Todić, Cristian Barz, Pop Vadean Adina, Pop Paul Petrica DATA RECORDING SYSTEMS WITH TELOC - 1500 FOR UPGRADING SAFETY SYSTEMS ON LOCOMOTIVE SERIES 441-521

Work in Sections - Friday, the 26th May

15.00 – 18.00	Room RC	Section V AUTOMOTIVE AND TRAFFIC ENGINEERING
		Moderators: Aleksandar Tomić Snežana Petković Aleksandar Milašinović
1.	Slavica Mačužić, Jovanka Lukić TRENDS IN THE DEVELOPMENT OF BRAKE SYSTEMS OF THE AGRICULTURAL TRACTORS AND TRAILERS	
2.	Danijela Miloradović, Gordana Bogdanović, Lozica Ivanović, Vladimir Geroski, Marija Rafailović COMPARISON OF NUMERICAL INTEGRATION METHODS IN THE LINEAR DYNAMIC ANALYSIS	
3.	Slobodan Mišanović, Dragan Taranović, Radivoje Pešić, Jovanka Lukić EXPLOITATION SPECIFICITIES OF E-BUSES IN WINTER CONDITIONS FROM THE ASPECT OF ENERGY EFFICIENCY	
4.	Almir Blažević, Mirsad Trobradovic, Ivan Filipović ANALYSIS OF EFFECT OF FLYWHEEL ON CRANKSHAFT SPEED NONUNIFORMITY IN ENGINE OPERATING RANGE	
5.	Jasna Glišović, Jovanka Lukić, Blaža Stojanović, Nadica Stojanović AIRBORNE WEAR PARTICLES FROM AUTOMOTIVE BRAKE SYSTEMS IN URBAN AND RURAL AREAS	
6.	Saša Milojević, Radivoje Pešić, Dragan Taranović DETERMINATION OF LOSSES RELATED TO FRICTION WITHIN THE RECIPROCATING COMPRESSORS – INFLUENCES OF TRIBOLOGICAL OPTIMIZATION OF PISTON AND CYLINDER	
7.	Ivan Grujić, Jovanka Lukić, Aleksandar Davinić, Nadica Stojanović IDENTIFICATION OF COMBUSTION NOISE	
8.	Zoran Majkić RESEARCH INFLUENCE OF ROAD-OFF ROAD ROUGHNESS ON TERRAIN MOTOR VEHICLES	

Work in Sections - Friday, the 26th May

15.00 - 18.00	Room Trondheim	Section VI QUALITY AND ECOLOGY
		Moderators: Mirko Soković Miroslav Bobrek Goran Janjić
1.	Amna Bajtarević, Samir Lemeš, Fuad Hadžikadunić MEASUREMENT OF ROLLER BEARING GEOMETRY DEVIATIONS USING COORDINATE MEASURING MACHINE	
2.	Ranka Radić, Petar Gvero AIR QUALITY IN RURAL RESIDENTIAL AREA	
3.	Goran Janjić, Zorana Tanasić, Gorazd Kosec, Borut Kosec, Mirko Soković AN INTEGRATED APPROACH TO THE IMPLEMENTATION OF AN ENVIRONMENTAL MANAGEMENT SYSTEM AND LIFE CYCLE ASSESSMENT METHOD IN COMPANY	
4.	Radovan Martić, Zorana Tanasić, Goran Janjić IMPLEMENTATION OF LEAN CONCEPT IN SMEs	
5.	Peđa Milosavljević, Milena Rajić, Dragan Pavlović, Srđan Mladenović, Marija Mitrović, THE APPLICATION OF QUALITY AND MANAGEMENT TOOLS IN THE AUTOMOTIVE INDUSTRY	
6.	Svetlana Lazarević Petrović, Mioljub Lazarević, Tamara Petković BOLOGNA PROCESS IN SERBIA – TEN YEARS AFTER	
7.	Miloš Sorak, Miroslav Dragić, Zorana Tanasić DEVELOPMENT OF MODEL FOR THE DESIGN AND IMPLEMENTATION OF QUALITY MANAGEMENT SYSTEM ACCORDING TO ISO STANDARD 9001:2015	
8.	Mirko Soković, Goran Janjić, Igor Budak, Zorana Tanasić, Boris Agarski, Milana Ilić, Gorazd Kosec, Davorin Kramar, Borut Kosec ENVIRONMENTAL LABELLING WITH TYPE I ECO LABELS	
9.	Vijoleta Vrhovac, Stevan Milisavljević, Nela Cvetković, Nemanja Sremčev THE QUALITY OF THE EDUCATION SYSTEM	
10.	Nela Cvetković, Slobodan Morača, Vijoleta Vrhovac, Stevan Milisavljević MEASURING THE QUALITY AND PROGRESS OF SOFTWARE PROJECTS WITH PROJECT METRICS	
11.	Miroslav Bobrek, Milan Ivanović KNOWLEDGE AUDIT AS A QUALITY TOOL	

Work in Sections - Friday, the 26th May

15.00 - 18.00	Room 29	Section VII MAINTENANCE OF ENGINEERING SYSTEMS AND OCCUPATIONAL SAFETY ENGINEERING
		Moderators: Mitar Jocanović Zdravko Milovanović Mladen Todić

1.	Boris Agarski, Igor Budak, Goran Simunovic, Borut Kosec, Miodrag Hadzistevic, Djordje Vukelic DEVELOPMENT OF INNOVATIVE METHODOLOGY FOR ECODESIGN OF PRODUCTS AND PROCESSES FOR THE REGION OF VOJVODINA
2.	Biljana Vranješ, Zorana Tanasić THE APPLICATION OF THE ISHIKAWA METHOD FOR DETERMINING THE CAUSE OF ACCIDENTS AT WORK
3.	Biljana Milutinović, Petar Djekić, Milan Pavlović, Mladen Tomić ARTIFICIAL NEURAL NETWORK FOR PREDICTION OF THE BEGINNING OF DELAMINATION AT RUBBER CONVEYOR BELTS
4.	Mladen Todić, Latinović Tihomir, Đudurević Biljana, Majstorović Aleksandar SECURITY APPLICATIONS OF INSULATION MASK
5.	Velibor Karanović, Mitar Jocanović, Nebojša Nikolić, Mike Lubich, Marko Orošnjak LUBRICATING OILS FOR AUTOMOTIVE NATURAL GAS ENGINES
6.	Mitar Jocanović, Velibor Karanović, Darko Knežević, Marko Orošnjak, Saša Laloš SIGNIFICANCE OF HYDRAULIC SYSTEM WORKING FLUID MAINTENANCE WITH INTEGRATED LOGIC AND BUILT-IN COMPONENTS
7.	Aleksandar Majstorović, Mladen Todić THE HEAT DISTRIBUTION AT COMPRESSION FILLING OF BOTTLES ANDEXPANSION OF MEDICAL AIR
8.	Stevan Jovičić, Zoran Ilić, Ljubiša Tomić, Aleksandar Mićović CONSTRUCTION OF ACCOMMODATION FACILITIES FOR BASIC MAINTENANCE AND TESTING OF AIRCRAFT IN SERBIAN ARMY
9.	Ile Mircheski, Tashko Rizov NONDESTRUCTIVE DISASSEMBLY PROCESS OF TECHNICAL DEVICE SUPPORTED WITH AUGMENTED REALITY AND RFID TECHNOLOGY
10.	Petar Pejić, Dejan Mitrović, Sonja Krasić SPATIAL ORIENTATION USING VIRTUAL REALITY, CASE OF FACULTY OF MECHANICAL ENGINEERING, NIŠ

Work in Sections - Friday, the 26th May

15.00 - 18.00	Room 19	Section VIII MATERIALS SCIENCE
		Moderators: Borut Kosec Dragoslav Dobraš Biljana Milutinović
1.	Blaž Karpe, Marko Krivec, Aleš Nagode, Daniela Korolija Cerkvenjakov, Mirko Gojić, Igor Budak, Milan Bizjak, Borut Kosec RESTORATION AND CONSERVATION OF SIGNIFICANT RIFLE FROM I. WORLD WAR	
2.	Natalia I. Cherkashina COMPOSITE FOR RADIATION PROTECTION	
3.	Miruna Magaon, Ana Socalici, Sorina Serban RESEARCH ON THE INFLUENCE OF THE VACUUMING PARAMETER ON THE GAS CONTENT IN STEELS	
4.	Dragoslav Dobraš, Nenad Bukejlović, Milisav Marković ANALYSIS OF QUALITY OF WELDED JOINT ACHIEVED WITH FLUX CORED WIRE IN PG WELDING POSITION	
5.	Dragoslav Dobraš, Milisav Marković CONDITIONS FOR THE SELECTION OF WELDERS	
6.	Petar Djekić, Biljana Milutinović, Mladen Tomić APPLICATION OF POLYURETHANE WASTE IN VIRGIN RUBBER BLENDS	
7.	Stojana Vesković Bukudur, Aleš Nagode, Blaž Karpe, Janez Kovač, Stjepan Kožuh, Milan Bizjak PACK ALUMINIZATION PROCESS OF HEAT RESISTANT FeCrAl AND NiCr ALLOYS	
8.	Nadežda Šubara, Srđan Stojičić MODERN METHODS OF EXAMINATION THE RAILWAY AXLES ON FATIGUE	
9.	Milan Radošević, Sebastijan Baloš, Dragan Ružić METALLOGRAPHIC TESTS AND STRENGTH OF THE MATERIAL OF CHAINS SNOW	
10.	Ivana Ivanić, Stjepan Kožuh, Andrej Vračan, Borut Kosec, Mirko Gojić SEM ANALYSIS OF FRACTURE SURFACE OF THE CuAlNi SHAPE MEMORY ALLOY AFTER HEAT TREATMENT	

Work in Sections - Saturday, the 27th May

9.00 – 12.00	Room 11	Section I 2/2 PRODUCTION AND COMPUTER-AIDED TECHNOLOGIES
		Moderators: Aleksandar Živković Simo Jokanović Miodrag Manić
11.	Aleksandar Živković, Milan Zeljković, Miloš Knežev, Milivoje Mijušković ANALYSIS OF STATIC BEHAVIOUR OF THE BEARING ASSEMBLY FOR AGRICULTURAL MECHANIZATION	
12.	Mirna Nožić, Himzo Đukić, Darko Šunjić COMPARATION OF THEORETICAL, EXPERIMENTAL AND NUMERICAL METHODS FOR PROCESS ANALYSIS FOR DEEP DRAWING WITH REDUCTION OF WALL THICKNESS	
13.	Miodrag Manić, Miloš Ristić, Dragan Mišić, Miloš Kosanović CONCEPT OF THE SYSTEM FOR CUSTOMIZED IMPLANT MANUFACTURABILITY ANALYSIS	
14.	Milan Šljivić, Milija Krašnik, Jovica Ilić, Jelica Anić DEVELOPMENT OF SMALL BATCHES OF FUNCTIONAL PARTS USING INTEGRATION OF 3D PRINTING AND VACUUM CASTING TECHNOLOGY	
15.	Miloš Madić, Marko Kovačević, Miroslav Radovanović, SOME OPTIMIZATION ASPECTS IN TURNING PROCESSES	
16.	Branko Kokotovic, Saša Živanović FUNCTIONS FOR PROCESSING OF WOKPIECE CAD MODEL FOR PREDICTION AND OPTIMIZATION OF MILLING PROCESS	
17.	Simo Jokanović FEATURE CENTRIC MANUFACTURING AUTOMATION – A CONCEPT	

Work in Sections - Saturday, the 27th May

9.00 - 12.00	Amphitheater	Section II 2/2 ENERGETICS AND THERMAL ENGINEERING
		Moderators: Dejan Mitrović Vinko Babić Dečan Ivanović
20.	Ivana Kecman, Mirko Dobrnjac, Vladimir Stevanović, Milan Lečić TWO-PHASE FLOW ANALYSIS IN SPIRAL EVAPORATOR TUBE OF STEAM GENERATOR	
21.	Janja Branković, Predrag Živković, Dragana Dimitrijević, Jelena Janevski, Sanja Dobrnjac INFLUENCE OF A CONSTRUCTION SITE TO THE IMMEDIATE SURROUNDINGS AIR QUALITY	
22.	Dragana Dimitrijević, Predrag Živković, Janja Branković, Mirko Dobrnjac, Žana Stevanović AIR POLLUTION REMOVAL AND CONTROL BY GREEN LIVING ROOF SYSTEMS	
23.	Predrag Živković, Mirjana Laković, Dušan Petković, Dragana Dimitrijević, Milica Jović WIND ENERGY POTENTIALS OF THE NORTHERN BALKAN MOUNTAIN	
24.	Mladen A. Tomić, Biljana B. Milutinović, Predrag M. Živković, Petar S. Đekić, Mirjana S. Laković NUMERICAL ANALYSIS OF CONVECTIVE HEAT TRANSFER FROM A PERFORATED PLATE	
25.	Jasmina Bogdanović-Jovanović, Živojin Stamenković, Živan Spasić, Jelena Petrović, Miloš Kocić NUMERICAL INVESTIGATION OF CAVITATING FLOW IN VENTURI NOZZLE	
26.	Maja Mrkić Bosančić, Srđan Vasković, Petar Gvero DETERMINATION OF OPTIMAL ENERGY MIX SUPPLY FROM RENEWABLE ENERGY SOURCES BY USING MULTI-CRITERIA OPTIMIZATION	
27.	Miloš M. Kocić, Živojin M. Stamenković, Jelena D. Petrović, Jasmina B. Bogdanović-Jovanović, Milica D. Nikodijević MHD FLOW AND HEAT TRANSFER OF MICROPOLAR FLUID WITH INDUCED MAGNETIC FIELD EFFECTS	

28.	Jasmina Skerlic, Danijela Nikolić, Vanja Šušteršič, Jasna Radulovic, Aleksandar Mišković, Blaža Stojanović ANALYSIS AND EVALUATION OF SOLAR ENERGY SYSTEMS
29.	Dragan Cvetković THE IMPACT OF INPUT TEMPERATURE AT PANEL HEATING SYSTEM TO HEAT THE SPORTS HALL
30.	Esad Tombarević, Igor Vušanović NUMERICAL ANALYSIS OF UNSTEADY HEAT TRANSFER IN U-TUBE GEOTHERMAL HEAT EXCHANGER
31.	Dušica Vuković, Vidosava Vilotijević, Uroš Karadžić HYDRAULIC TRANSIENTS CALCULATIONS ON KOMARNICA HPP60
32.	Marko Mančić, Dragoljub Živković, Dejan Mitrović, Milan Đorđević, Milena Jovanović OPTIMAL CONFIGURATION OF A POLYGENERATION SYSTEM FOR THE ENERGY DEMANDS OF A PUBLIC SWIMMING POOL BUILDING
33.	Cvete Dimitrieska, Silvana Angelevska, Zore Angelevska, Sevde Stavreva HEATING WITH BIOMASS – BENEFITS OF THE INVESTMENTS
34.	Mirjana Laković, Milica Jović, Predrag Živković, Dragana Dimitrijević ANALYSIS OF CARBON FOOTPRINT METHOD-AN REVIEW
35.	Aleksandar Milašinović, Zdravko Milovanović, Željko Đurić EXPERIMENTAL INVESTIGATION OF HEAT FLUX AT THE PANEL HEATING SYSTEMS
36.	Milica Jović, Mirjana Laković CARBON FOOTPRINT METHOD-A CASE STUDY FOR THERMAL POWER PLANTS IN REPUBLIC OF SERBIA
37.	Darko Knežević, Saša Laloš EXPERIMENTAL DETERMINATION OF SMALL FLOW RATE WITHIN HYDRAULIC COMPONENTS
38.	Jelena N. Janevski, Mladen M. Stojiljković, Branislav V. Stojanović, Stefan D. Jovanović, ADVANTAGES OF DRYING OF VEGETABLES USING THE INTEGRATED HEAT PUMP TECHNOLOGY
39.	Jelena N. Janevski, Branislav V. Stojanović, Predrag Živković, Dejan M. Mitrović INVESTIGATION OF WOOD BIOMASS MARKET IN SOUTHEAST SERBIA

Work in Sections - Saturday, the 27th May

9.00 - 12.00	Room 21	Section III 2/2 MECHANICS AND DESIGN
		Moderators: Mladen Ječmenica Strain Posavljak Milan Tica
15.	Saša Milanović, Miloš Jovanović, Vladislav Blagojević SOLID PHASE VELOCITY DISTRIBUTION OF TWO-PHASE TURBULENT FLOW AT PREUMATIC TRANSPORT IN STRAIGHT CHANNELS OF QUADRATIC CROSS	
16.	Dragan Čukanović, Aleksandar Radaković, Gordana Bogdanović, Dragan Milosavljević, Vladimir Geroski CRITICAL BUCKLING TEMPERATURE OF CERAMIC-METAL FUNCTIONALLY GRADED PLATE	
17.	Gordana Bogdanović, Vladimir Geroski, Aleksandar Radaković, Dragan Čukanović, Dragan Milosavljević FAILURE STRESS ANALYSIS OF FIBER REINFORCED COMPOSITE LAMINATES	
18.	Slobodanka Boljanović, Stevan Maksimović, Strain Posavljak CRACK PROPAGATION ANALYSIS OF CYCLICALLY LOADED STRUCTURAL COMPONENTS	
19.	Katarina Maksimović, Dragi Stamenković, Slobodanka Boljanović, Mirko Maksimović, Ivana Vasović MODELING FRACTURE MECHANICS PARAMETERS OF CRACKED STRUCTURAL ELEMENTS UNDER THERMOMECHANICAL LOADS	
20.	Boban Andjelković, Dragan Milčić, Biljana Djordjević, Miodrag Milčić, Nataša Zdravković, MEASURING SYSTEM FOR DETERMINING SN CURVE BASED ON THE ARDUINO PLATFORM	
21.	Miodrag Milčić, Dragan Milčić, Boban Anđelković, Nataša Jovanović DESIGNING OF FIXATOR FOR VIBRATION TESTING OF WELDED JOINTS SPECIMENS	

22.	Dečan Ivanović GENERALIZED SIMILARITY INCOMPRESSIBLE BOUNDARY LAYER EQUATION WITH VELOCITY AND SHEAR STRESS DISTRIBUTIONS FOR UNSTEADY FLOW AROUND CIRCULAR CYLINDER
23.	Saša Ranđelović, Marina Trajković THE BENDING TECHNOLOGY DESIGN AT HIGHER PRECISION
24.	Aleksija Đurić, Biljana Marković CALCULATION OF LBKz FACTOR FOR CARBON FIBER REINFORCED POLYMER UNDER COMPRESSION AND THEIR COMPARISON WITH OTHER LIGHTWEIGHT MATERIALS
25.	Đorđe Miltenović, Milan Tica, Aleksandar Miltenović, Milan Banić ANALYSIS OF LOAD CARRYING CAPACITY OF WORM GEARS FROM THE ASPECT OF ENGINEERING PRACTICE
26.	Amir Al Sammarraie, Dragan Milčić, Miodrag Milčić, Miodrag Milčić TRIBOLOGICAL BEHAVIOUR OF TIN-BASED MATERIALS – TEGOTENAX V840 IN OIL LUBRICATED CONDITIONS
27.	Miroslav Milutinović, Spasoje Trifković DETERMINATION OF STRESS AND TORSION ANGLE OF THE CARDAN SHAFT FOR KNOWN LOAD

Saturday, the 27th May CLOSING OF THE CONFERENCE		
12.00	Amphitheater	Report of the conference
		Round table: "THE MECHANICAL ENGINEER - Higher Education and Industry"
THE END		