COMETa 2016

3rd INTERNATIONAL SCIENTIFIC CONFERENCE

7th - 9th December 2016 Jahorina, Republic of Srpska, B&H

H University of East Sarajevo Faculty of Mechanical Engineering

Conference on Mechanical Engineering Technologies and Applications

CONFERENCE PROGRAM COMETa 2016

07th – 09th December 2016. East Sarajevo – Jahorina, B&H, RS Hotel Bistrica

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"Conference on Mechanical Engineering Technologies and Applications" COMETa 2016. East Saraievo - Jahorina 2016.

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December 07, 2016 (Wednesday)

- 08:00 11:00 Registration
- 11:00 11:30 Opening Conference
- 11:30 12:00 Welcome Cocktail
- 12:00 13:30 Plenary session
- 13:30 15:00 Lunch
- 15:00 16:30 Technical Session I
 - Applied mechanics and mechatronics
- 15:00 16:30 Technical Session II
 - Machine Design, simulation and modeling
- 16:30 16:45 Coffee Break 16:45 – 18:15 - Technical Session III
 - Manufacturing technologies and advanced materials
- 16:45 18:30 Round table discussion: topic: "Education of Mechanical
- Engineers" (moderator: full professor Radivoje Mitrović and full professor Darko Knežević)
 - 20:00 Dinner

December 08, 2016 (Thursday)

- 08:00 08:30 Registration
- 08:30 10:00 Technical Session IV

Product development and Mechanical systems

- 08:30 10:00 Technical Session V
 - Energy and environmental
- 10:00 10:15 Coffee Break
- 10:15 12:15 Presentations of companies, products and equipment
- 12:15 12:30 Coffee Break
- 12:30 14:00 Round table discussion: topic: "The effect of the cooperation of the University with the real sector" (moderator: Associate professor Slaviša Moljević and associate professor Ranko Antunovic)
- 14:00 15:00 Lunch
- 15:00 19:00 Free activities or visit to Sarajevo
- 16:00 17:30 Workshop topic: "Project QIMSEE", (moderator: assistant professor Sanda-Midžić Kurtagić and associate professor Ranko Antunovic)
 - 20:00 Galla Dinner

December 09, 2016 (Friday)

- 08:30 10:00 Technical Session VI
 - Maintenance, Quality and organization
- 10:00 10:15 Coffee Break
- 10:15 11:45 Technical Session VII

Student section

- 11:45 12:00 Coffee Break
- 12:00 13:30 Workshop "Conference report and conclusions. Closing of Conference.",
 - (moderator: associate professor Ranko Antunovic and associate professor Biljana Marković)
 - 13:30 Lunch

PLENARY LECTURES

- 1. Radivoje Mitrović, Faculty of Mechanical Engineering Belgrade, Serbia ENGINEERING IN THE FUNCTION OF ECONOMIC DEVELOPMENT
- 2. Isak Karabegović, Technical Faculty Bihac, Bosnia and Herzegovina ROLE OF ROBOTICS IN THE GLOBAL AUTOMATION OF PRODUCTION PROCESSES IN THE WORLD WITH PREDICTIONS OF THE FUTURE
- Slavko Krajcar, Faculty of Electrical Engineering and Computing, Croatia "ENERGY AND CLIMATE CHANGE - FROM PARIS TO +2 ° C and something more"

December 07, 2016 (Wednesday)

(Conference Room No.1, 15:00 - 16:30)

Session I: APPLIED MECHANICS AND MECHATRONICS

Chairpersons: Isak Karabegovič, Miroslav Živković, Novak Nedić

- 1. Isak Karabegović, Vlatko Doleček
 THE TENDENCY OF APPLICATION OF INDUSTRIAL ROBOTS IN THE
 AUTOMOTIVE, ELECTRICAL ENGINEERING AND METAL INDUSTRIES
 WORLDWIDE
- 2. Dragan Rakić, Miroslav Živković, Nikola Milivojević, Dejan Divac STABILITY ANALYSIS OF A CONCRETE GRAVITY DAM USING SHEAR STRENGTH REDUCTION METHOD
- 3. Vladimir Milovanović, Miroslav Živković, Gordana Jovičić, Aleksandar Dišić, Miroslav Milutinović
 EXPERIMENTAL AND NUMERICAL STRENGTH ANALYSIS OF WAGON FOR CONTAINERS TRANSPORTATION
- 4. Radivoje Mitrović, Ivana Atanasovska, Nataša Soldat NUMERICAL ANALYSIS OF DYNAMIC BEHAVIOR OF BALL BEARING DEPENDING ON EXTERNAL RADIAL FORCE
- Radoslav Tomović
 DYNAMIC MODEL OF RIGID ROTOR IN ROLLING BEARING
- 6. Nebojša Radić, Dejan Jeremić
 MECHANICAL BUCKLING OF DOUBLE-LAYERED GRAPHENE SHEETS
 EMBEDDED IN AN ELASTIC MEDIUM USING A NONLOCAL NEW
 FIRST-ORDER DEFORMATION THEORY
- 7. Aleksandar Milašinović, Zdravko Milovanović, Darko Knežević LAGRANGE MULTIPLIERS OF THE CONSTRAINT FORCES OF THE SLIDER CRANK MECHANISM
- Nikola Vučetić, Aleksandar Košarac, Mirko Blagojević, Ranko Antunović ANALYTICAL DETERMINATION OF DRIVE SHAFT NATURAL
- FREQUENCIES

 9. Nikola Vučetić
 IMBALANCE INFLUENCE ON ROLLING BEARING OPERATING
 TEMPERATURE
- 10. Dragan Trifković, Branimir Krstić, Dajana Vujanović CORROSION AS A CAUSE OF FAILURE OF AIRCRAFT CYLINDRICAL ELEMENTS – CASE OF STUDIES

- 11. Saša Prodanović, Novak Nedić
 ANALYSIS OF POSSIBILITIES FOR THE STATIC DECOUPLING
 CONTROL APPLICATION IN TITO SYSTEMS
- 12. Jovan Šulc, Vule Reljić, Brajan Bajči, Dragan Šešlija
 DESIGN AND DEVELOPMENT OF EXPERIMENTAL SETUP FOR
 ANALYSIS AND SYNTHESIS OF CONTROL LAWS IN MANIPULATOR
 CONTACT WITH ENVIRONMENT
- 13. Zlata Jelačić
 CONTACT FORCE PROBLEM IN THE SERVICE ROBOT CONTROL
 DESIGN

December 07, 2016 (Wednesday) (Conference Room No.2, 15:00 – 16:30)

Session II: MACHINE DESIGN, SIMULATION AND MODELING

Chairpersons: Dragan Milčić, Mirko Blagojević, Lozica Ivanović

 Nenad Marjanovic, Nenad Kostic, Nenad Petrovic, Mirko Blagojevic, Milos Matejic

TEACHING-LEARNING-BASED OPTIMIZATION ALGORITHM FOR SOLVING MACHINE DESIGN CONSTRAINED OPTIMIZATION

- 2. Marko Denić, Nenad Petrović, Vesna Marjanović
 ANALYSIS OF WIND TURBINE LATTICE TOWER TYPE CONCEPTS
- Jovan Pavlović, Dragoslav Janošević, Vesna Jovanović, Saša Marković
 GENERATING VARIANT SOLUTIONS OF DRIVE MECHANISMS OF A LOADER MANIPULATOR
- Blaža Stojanović, Sandra Veličković, Marko Ristić, Saša Jovanović, Aleksandar Skulić
 INFLUENCE OF TORQUE VARIATION ON STRESS OF TIMING BELT
- 5. Goran Pavlović, Vladimir Kvrgić, Mile Savković, Milomir Gašić, Nebojša Zdravković THE INFLUENCE OF THE POSITION OF LONGITUDINAL STIFFENERS TO THE OPTIMUM DIMENSIONS OF THE BOX SECTION OF THE
- SINGLE-GIRDER BRIDGE CRANE

 6. Slavica Miladinović, Blaža Stojanović, Sandra Veličković
 OPTIMIZATION AND PREDICTION OF SAFETY COEFFICIENT FOR
 SURFACE DURABILITY OF PLANETARY GEAR USING TAGUCHI
 DESIGN AND ARTIFICIAL NEURAL NETWORK
- Slobodan Garić, Lozica Ivanović, Slavica Miladinović, Vladimir Milovanović NUMERICAL ANALYSIS OF ALUMINUM COMPOSITE CYLINDRICAL GEARS
- 8. Nadica Stojanović, Jasna Glišović, Nenad Marjanović, Ivan Grujić OPTIMIZATION OF VENTILATED DISC BRAKE VANES FOR HEAVY DUTY VEHICLE
- Ivan Grujic, Nadica Stojanovic, Aleksandar Davinic, Radivoje Pesic, Danijela Miloradovic
 OPTIMIZATION OF CONNECTING ROD LENGTH
- 10. Đorđe Miltenović, Milan Banić, Aleksandar Miltenović, Milan Tica POWER LOSSES AND EFFICIENCY OF WORM GEARS IN EXTREME OPERATING CONDITIONS
- 11. Maja Čavić, Marko Penčić, Milan Rackov, Ivan Knežević, Miodrag Zlokolica
 DYNAMIC ANALYSIS OF THE THERMOFORMING MACHINE WORKING MECHANISM

- 12. Krešimir Vučković, Ivan Čular, Stjepan Risović
 EFFECTS OF FINITE ELEMENT TYPE, MESH SIZE AND FRICTION ON
 SPUR GEAR NOMINAL TOOTH ROOT STRESS RESULTS
- 13. Amna Bajtarević, Fuad Hadžikadunić, Nedeljko Vukojević NUMERICAL ANALYSIS OF SINGLE GIRDER SUSPENSION OVERHEAD CRANE

December 07, 2016 (Wednesday)

(Conference Room No.1, 16:45 - 18:15)

Session III: MANUFACTURING TECHNOLOGIES AND ADVANCED MATERIALS

Chairpersons: Milentije Stefanović, Milan Zeljković, Ljubodrag Tanović

- Slobodan Tabaković, Saša Živanović
 SIMULATION OF KINEMATIC OF VIRTUAL PROTOTYPE OF A
 MACHINE TOOL BASED ON HYBRID O-X MECHANISM
- 2. Saša Živanović, Nikola Slavković, Branko Kokotović, Dragan Milutinović

MACHINE SIMULATION OF VIRTUAL RECONFIGURABLE 5 AXIS MACHINE TOOL WHEN MACHINE WORKING ACCORDING TO THE RUNNING PROGRAM

- Aleksandar Živković, Milan Zeljković, Miloš Knežev THERMAL MODEL OF HIGH SPEED MAIN SPINDLE
- 4. Aco Antić, Milan Zeljković, Dejan Lukić
 INFLUENCE OF TOOL WEAR ON THE CHIPS SEGMENTATION AND
 VIBRATIONS SIGNAL IN TURNING PROCESS
- 6. Djordje Cica, Branislav Sredanovic, Davorin Kramar
 A PREDICTIVE MODEL OF CUTTING FORCES IN MQL TURNING
 USING GENETIC ALGORITHM
- 7. Adrian But, Rad Canarache
 SOLUTION TO INCREASE THE PRODUCTIVITY ON CNC MACHINING
- 8. Milentije Stefanović, Dragan Adamović, Andreja Stefanović, Milija Kraišnik

ENVIRONMENTAL AND ENERGY ASPECTS IN THE DEVELOPMENT OF TECHNOLOGY OF METAL FORMING

- 9. Dragoslav Dobraš, Milisav Marković
 STANDARDS THAT DEFINE QUALITY OF WELDING
 PHOTOSENSITIVE VISOR
- 10. Nenad Bukejlovic, Dario Božičkovi, Zdravko Božičković WELDING BUCKET – WHEEL EXCAVATOR KRUPP C700
- 11. Miroslav Radovanovic
 RESEARCH OF CUT QUALITY WHEN CUTTING CARBON STEEL WITH
 ABRASIVE WATER JET
- 12. Elvis Hozdić, Emine Hozdić
 AGENT STRUCTURES FOR SOCIO-CYBER-PHYSICAL WORK
 SYSTEMS IMPLEMENTATION
- 13. Milija Kraišnik, Milan Šljivić, Jelica Anić, Jovica Ilić COMPRESSIVE PROPERTIES OF COMMONLY USED POLYMERS IN ADDITIVE MANUFACTURING PROCESSES

December 07, 2016 (Wednesday) (Conference Room No.2 or 3 16:45 - 18:30)

Round table discussion: – topic: "Education of Mechanical Engineers" (moderator: full professor Radivoje Mitrović and full professor Darko Knežević)

December 08, 2016 (Thursday) (Conference Room No.1, 08:30 – 10:00)

Session IV: PRODUCT DEVELOPMENT AND MECHANICAL SYSTEMS

Chairpersons: Radivoje Mitrović, Adisa Vučina, Siniša Kuzmanović

- Radivoje Mitrović, Žarko Mišković
 INVESTIGATION ON INFLUENCE OF 3D PRINTING DIRECTION ON MECHANICAL PROPERTIES OF ABS PLASTIC PROTOTYPES
- Milan Rackov, Ivan Knežević, Siniša Kuzmanović, Maja Čavić, Marko Penčić, Sava Ianici PROPOSAL OF ASSESSMENT METHOD OF DIFFERENT QUALITY SOLUTIONS OF UNIVERSAL GEAR REDUCERS
- 3. Emine Hozdić, Elvis Hozdić
 APPLICATIONS OF ADDITIVE TECHNOLOGIES IN RECONSTRUCTIVE
 MEDICINE
- 4. Nebojša Rašović, Adisa Vučina, Milenko Obad EXPERT SYSTEM SUPPORT IN PRODUCT DESIGN FOR ADDITIVE TECHNOLOGY AND REVERSE ENGINEERING
- 5. Biljana Markovic, Miodrag Divcic
 CALCULATION OF THE BEARING MODIFIED RATING LIFE DURING
 NEW BEARING DESIGN
- Miodrag Milcic, Tomaz Vuherer, Janez Kramberger, Dragan Milcic, Boban Andjelkovic
 IMPACT FRACTURE BEHAVIOUR OF 2024—T351 ALUMINIUM ALLOY SHEETS JOINED BY FRICTION STIR WELDING
- 7. Daniel Miler, Dragan Žeželj, Igor Lončarek
 CASE STUDY ON CAE TOOLS: OPTIMIZATION OF A 6-AXIS ROBOTIC
 ARM FOR MAG WELDING
- 8. Milan Blagojevic, Svetozar Rajnhofer
 INSTALLATION OF RAILWAYS FOR WELDING PORTAL GUIDANCE
- 9 Milos Matejic, Lozica Ivanovic, Nenad Kostić PARAMETRIC MODELING OF GEROTOR PUMP

COMPOSITE MATERIALS

- 10. Nevena Stevanović, Zorica Djordjević, Saša Jovanović, Olivera Gavrilovic THE ANALYSIS OF STRESS-STRAIN STATE OF GEARS MADE FROM
- 11. Đurić Aleksija, Biljana Marković QUASI-DYNAMIC TESTING OF A BUTT-WELDED JOINT MADE OF ALUMINIUM ALLOY 6060 (AIMgSi0,5)

Session V: RENEWABLE ENERGY AND ENVIRONMENTAL

Chairpersons: Slavko Krajcar, Petar Gvero, Stojan Simić

- Marko Mančić, Dragoljub Živković, Milan Djordjević, Milena Rajić, Milena Jovanović OPTIMISATION OF A POLYGENERATION SYSTEM FOR THE ENERGY
 - DEMANDS OF AN INDOOR SWIMMING POOL
 Sulejman Muhamedagić, Mirsada Oruč

THE AIR QUALITY IN CITY OF ZENICA IN 2015

- 3. Merima Maslo, Seadin Hadžiomerović
 ANALYSIS OF THE PROCESS OF AIR PREPARATION FOR THE
 PURPOSES OF AIR CONDITIONING USING REGENERATIVE SYSTEM
 FOR HEAT RECOVERY
- 4. Maja Mrkić Bosančić, Srđan Vasković, Petar Gvero, Velid Halilović, Daliborka Petrović COMPARISON OF CO2 EMISSIONS FOR SUPPLY CHAINS OF FUELS FROM BIOMASS AND COAL
- Srđan Vasković, Petar Gvero, Vlado Medaković, Azrudin Husika, Dragana Kalabić DETERMINATION VALUES OF SUBSIDIES IN ACCORDANCE WITH THE EXERGY QUALITY OF FUELS AND HEAT PRODUCED FROM BIOMASS
- 6. Stojan Simić, Goran Orašanin, Dušan Golubović, Davor Milić ENERGY AND ENVIRONMENTAL ASPECTS OF ENERGY PRODUCTION FROM ANIMAL MANURE BIOGAS
- Ernad Šabanović, Marko Ikić, Slobodan Lubura, Milomir Šoja POTENTIAL AND WAY TO UTILIZE PV SYSTEMS IN PUBLIC BUILDINGS
- 8. Ernad Šabanović, Marko Ikić, Slobodan Lubura, Milomir Šoja CONNECTING PV SYSTEMS ON THE GRID. SELECTION OF CONNECTION TOPOLOGY
- Goran Orašanin, Stojan Simić, Dušan Golubović, Jovana Pajkić, Davor Milić
 - CONTROL OF WATER SUPPLY PUMPING SYSTEMS
- 10. Veselin Blagojević, Dušan Gordić, Ranko Božičković, Vojislav Novaković ENERGY-SMART BUILDINGS THROUGH APPLICATION OF THE INTERNET OF THINGS (IOT)

December 08, 2016 (Thursday) (Conference Room No.1, 10:15 – 12:15)

PRESENTATIONS OF COMPANIES, PRODUCTS AND EQUIPMENT

December 08, 2016 (Thursday) (Conference Room No.2, 12:30 – 14:00)

Round table discussion: – topic: "The effect of the cooperation of the University with the real sector" (moderator: Associate professor Slaviša Moliević and associate professor Ranko Antunovic)

December 08, 2016 (Thursday)

(Conference Room No.2, 16:00 - 17:30)

Workshop - topic: "Project QIMSEE",

(moderator: assistant professor Sanda-Midžić Kurtagić and associate

professor Ranko Antunovic)

December 09, 2016 (Friday)

(Conference Room No.1, 08:30 - 10:00)

Session VI: MAINTENANCE, QUALITY AND ORGANIZATION

Chairpersons: Mitar Jocanović, Ranko Božičković, Snežana Nestić

- 1. Mitar Jocanović, Velibor Karanović, Marko Orošnjak, Nebojša Nikolić, Darko Knežević
 - LUBRICATING OILS FOR MODERN AUTOMATIC TRANSMISSIONS OF MOTOR VEHICLES
- 2. Marko Orošnjak, Mitar Jocanović, Velibor Karanović SIMULATING THE EFFECTS THAT CONTAMINATION HAS ON A HYDRAULIC SYSTEM PERFORMANCE USING MATLAB/SIMULINK
- Vujadin Šarenac, Ranko Antunović, Mićo Plećić
 DIJAGNOSTIC MONITORING OF HYDRO UNITS IN HPP VIŠEGRAD
- 4. Anto Gajić, Siniša Gajić, Ljilja Rudić-Mikić, Jagoda Krsmanović DESCALING THE INNER SURFACE WATER STEAM PIPE STEAM BOILER TRACT "P 64", BY THERMALLY-OXYGEN TREATMENT (TKT) THE TPP UGLJEVIK
- Veselin Blagojević, Milan Despotović, Ranko Božičković, Siniša Božičković
 - ENERGY ANALYSIS OF DOBOJ MUNICIPALITY
- 6. Hrvoje Puškarić, Aleksandar Đorđević, Snežana Nestić, Aleksandar Aleskić, Gligorije Mirkov, Miladin Stefanović QUALITY-RELATED INDICATORS, PERFORMANCES AND RANKING IN HIGHER EDUCATION
- Ranka Gojković, Slaviša Moljević, Dušan Gordić IMPLEMENTATION OF ENERGY MANAGEMENT SYSTEMS ISO 50001:2011 IN B&H
- 8. Vlado Medaković, Bogdan Marić, Ranka Gojković CLUSTER AS A MODEL ORGANIZATION FOR SMALL AND MEDIUM-SIZED ENTERPRISES
- 9. Predrag Petrović

RECONSTRUCTION OF THE TANK WAGON VALVE SYSTEM IN ORDER TO CONFORM WITH INTERNATIONAL STANDARDS

December 09, 2016 (Friday)

(Conference Room No.1, 10:15 - 11:45)

Session VII: STUDENT SESSION

Chairpersons: Saša Prodanović, Aleksandar Košarac, Srđan Vasković

 Andreja Milovanović, Milan Blagojevic, Aleksandar Miljković
 APPLICATION OF REVERSE ENGINEERING IN FORMULA STUDENT
 CAR DEVELOPMENT

- 2. Marijana Krajišnik
 ANALYSIS OF STATIC BEHAVIOR OF SET OF THE MAIN SPINDLE
 UNTIL QUILL BY USING ANSYS SOFTWARE
- 3. Aleksandar Tomović, Marko Mumović, Vasilije Samardžić, Vuk Vujošević, Marko Rašović
 DEVELOPMENT OF CONSTRUCTION OF AN AUTONOMOUS LINE FOLLOWER ROBOT
- 4. Marko Mumović, Aleksandar Tomović
 WALKING ROBOT BASED ON JANSEN MECHANISM
- 5. Miladin Janjić, Nemanja Grahovac POSSIBILITY OF EFFICIENT HEATING AND SUPPLYING DOMESTIC HOT WATER RESIDENTIAL BUILDING WITH A COMBINATION OF TWO RENEWABLE ENERGY SOURCES
- 6. Mirjana Jokanović, Jovana Pajkić
 THE WASTEWATER PURIFICATION PROCESS
- 7. Kristo Batinić
 ELECTRICITY POWER GENERATION IN WATER SUPPLY SYSTEMS
- 8. Danijela Mitrović, Marko Krnojelac
 POSSIBILITY OF REPLACING COAL IN THE HEATING PLANT WHICH
 IS RUNNING ON SOLID FUEL WITH WASTE WOOD BIOMASS

December 09, 2016 (Friday)

(Conference Room No.1, 12:00 - 13:30)

Workshop –" Conference report and conclusions. Closing of Conference.", (moderator: associate professor Ranko Antunovic and associate professor Biliana Marković)