18th International Research/Expert Conference
“Trends in the Development of Machinery and Associated Technology”

TMT 2014

Final program

10 - 12 September 2014.
Danubius Hotel Arena, Budapest, Hungary
INTERNATIONAL SCIENTIFIC/REVIEW COMMITTEE

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Senior Asst. Msc. Ibrahim Plancic
Kemal Arifovic, IT support
Kemal Arifovic, IT support

MAIN TOPICS

1. MANUFACTURING TECHNOLOGIES AND MATERIALS
   Assembly and Disassembly;
   Machining, Nonconventional
   Machining, Tools, High Speed
   Machining; Dry Cutting, MQL
   Machining, High Performance
   Machining, Rapid Prototyping,
   Micromachining, Manufacturing
   Processes, Welding Processes;
   Plastic Forming Processes;
   Materials; Engineering of
   Polymers; Powder Metallurgy;
   Measuring; Thin &Thick Coatings;
   Surface Engineering; Molding
   Processes; CAM technologies;
   ...other subtopics

2. INDUSTRIAL ENGINEERING
   Diagnostic; Expert Systems;
   Autonomous Systems;
   Environmental Design;
   Reengineering; Knowledge Based
   Systems; Robot Applications;
   Mobile Robots; Optimizations,
   Reliability, Safety, Production
   Systems, Agile Manufacturing,
   Concurrent Manufacturing;
   Control, Flexible Manufacturing
   Systems; Hybrid Manufacturing
   Systems; CAP technologies; CIM
   technologies; Knowledge
   Management, Project
   Management, Production
   Management Systems, Quality
   Management, TQM, Maintenance,
   Nondestructive Testing,
   Operational Research Applications
   in Production, Scheduling, Supply
   Chain Management, Logistics,
   Electrical Engineering, Power
   Systems, Energetic; Ecology,
   Environmental Engineering ...other
   subtopics

3. APPLIED TECHNOLOGIES
   AND SOFTWARE ENGINEERING
   Software Engineering Applications,
   Sensors; Industrial Robots;
   Microrobotics; Programming;
   Simulations, Virtual Manufacturing;
   Industrial Automation; Hardware &
   Software; Signal Processing,
   Networking; Neural Network;
   Artificial Intelligence, Engineering
   Education Systems ...other
   subtopics

4. MECHANICAL CONSTRUCTIONS & DESIGN
   Design and Construction; Design
   Automation; Robots- Kinematics,
   Dynamics; Mechanism; Numerical
   Methods; Optimal Design,
   Tolerance Analysis; CAD
   technologies; Environmental
   Design, Fluid Mechanics,
   Mechatronics ...other subtopics

TYPE OF PRESENTATION

ORAL PRESENTATION is limited to 10 minutes + 5 minutes for discussion.
Presenters can use overhead transparencies or PowerPoint slide shows.
CONFERENCE DATE AND VENUE

The conference will be held from 10th to 12th September 2014 at the Danubius Hotel Arena ****, Budapest, (http://www.danubiushotels.com/our-hotels-budapest/danubius-hotel-arena).

Leading conference hotel on the Pest side of the Danube. In Pest’s conference district, located close to Budapest’s largest sports and events centre (SYMA) and the international fair centre (HUNGEPO). Fully renovated hotel that offers new products and services while also providing the reassuring expertise that comes with many years’ experience. Conveniently situated a few steps from the metro station, so the city’s highlights are within easy reach. Modern restaurant tempts your tastebuds with Italian specialities.

Often described as the "Little Paris of Middle Europe", Budapest is famous not only for the monuments reflecting its own 1,000-year-old culture, but also for the relics of others who settled here. Remains from both Roman occupation and much later ruled by the Turks can still be seen in the city. After the Ottoman Empire the union with Austria has a particular influence on the city's form and style. The capital has two sides, Buda and Pest, stretching along the banks of the Danube, representing two different characters of the city. Suburban Buda and its historic castle district offer medieval streets and houses, museums, caves and Roman ruins. The dynamic Pest side boasts the largest parliament building in Europe, riverside promenades, flea markets, bookstores, antique stores and café houses.

Budapest has a lot to offer. Museums and galleries, churches and synagogues, palaces and historic buildings, baths and pools are presented together with the influence of Secession in the city.

CONFERENCE FEE

The conference fee is: 250,00 EUR + 25,00 EUR (for poster presentation).
The conference fee includes the following: a copy of Conference Proceedings and accompanying materials, admission to all sessions and presentations, refreshments, welcome drink.

CORRESPONDENCE

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Faculty of Mechanical Engineering  
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ACCOMMODATION

Dear colleagues,

TMT 2014 Organizing Committee wish to inform all possible participants and travelers to the Budapest that the Centrotours travel agency is responsible for the overall organization of the tourist part of the trip.

All reservation as well as additional information can be found on:

CONTACT  
e-mail: e.cota@centrotrans.com  
Contact person: Čota Edin  
Phone: 033 205 481; 033 211 283  
Fax: 033 211 282  
Web: http://www.centrotours.ba

Best regards,  
TMT 2013 Organizing Committee
### MEGKÖZELÍTETT/S / TRANSPORTATION / ANREISE

GPS code: 47 30' 02.95"N, 19 06' 13.40"E

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Location Danubius Hotel Arena****, Budapest
(http://www.danubiushotels.com/our-hotels-budapest/danubius-hotel-arena)

Budapest
# SCHEDULE OF EVENTS

## WEDNESDAY  September 10th

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## THURSDAY  September 11th

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SCHEDULE OF PAPERS PRESENTATIONS

THURSDAY, September 11th
09.00 – 09.15 Conference Opening (Danubius Hotel Arena)
Chairmen: S. Ekinovic, J. Vivancos, S. Yalcin

THURSDAY, September 11th
09.15 – 09.45 Keynote Paper Presentation
Chairmen: S. Ekinovic, J. Vivancos, S. Yalcin

1. Physical Background Of Measurement Techniques In Advanced Technologies
   Rajfa Musemić (B&H)

THURSDAY, September 11th
09.45 – 10.15 Posters presentation
Chairmen: S. Ekinovic

1. Optimization Of The Hoisting System Of Vehicle
   Beqir B. Hamidi, Lindita B. Hamidi (Kosove)

2. Adhesive Bonds And Calculating The Strength Of Elastic-Adhesive Joints
   Petar Smiljanic, Emina S Dzindo, Jasmina Lozanovic Sajic (Serbia)

3. The Influence Of Heat Input On The Content Of Acicular Ferrite In Weld Metal Of Microalloyed Steel
   Olivera Popović, Uroš Lukić, Radica Prokić-Cvetković, Meri Burzić, Radomir Jovičić (Serbia)

4. Dimensioning And Fem Analysis Of The Lever Tongs Holding The Load By The Friction Force
   Mirsad Colic, Mirza Colic* (B&H, *Germany)

5. Impact Of Welding Parameters On The Stability Of Gas Metal Arc Welding Process
   Uroš Lukić, Radica Prokić – Cvetković, Olivera Popović, Bratislav Rajičić, Radomir Jovičić, Meri Burzić (Serbia)

6. Improving Quality Of Environment In Serbia
   Zorka Jugović, Branka Jordović, Danjela Pecarski, Radisav Vukadinović, Miloš Papić (Serbia)

7. The Influence Of Pressure By Thickness Bonding On The Shear Strength Of Glulam
   Murco Obucina, Enil Gondzic (B&H)

8. Sliding Wear Of TiO2 Sol-Gel Coating
   Krešimir Grilec, Lidija Ćurković, Marijana Majić Renjo, Suzana Jakovljević, Vera Rede (Croatia)

9. Operation Of A Small Wind Turbine Within Urban Area
   Aleš Hribernik, Matjaž Ramšak, Blaž Orešnik (Slovenia)
10. The Correlation Of High Ambient Sulfur Dioxide Concentration With Relevant Hospital Admissions
   Smajil Durmišević, Aldin Hibić, Melita Lelić, Jasmina Durmišević-Serdarević (B&H)

   Manuela Redecker, Franz Haas, Bernhard Schmiedhofer (Austria)

12. Contact Characterization Between A Cam And A Crowned Roller Follower
   Pau Català, Mª Antonia de los Santos, Salvador Cardona (Spain)

13. AFM Analysis Of Mixed TiO₂–ZrO₂ (1:1) Sol–Gel Films On Stainless Steel Substrate
   Lidija Ćurković, Amalija Vu grinčić, Ivana Bačić, Marijana Majić Renjo, Krešimir Grilec, Suzana Šegota (Croatia)

   Aleksandar Maslarević, Uroš Lukić, Gordana Bakić, Igor Martić (Serbia) 445

15. Introduction Of A New Performance Measure For Job Shop Scheduling
   Borut Buchmeister, Zvonko Kremljak, Danijela Gračanin* (Slovenia, *Serbia)

   Zorka Jugović, Draginja Vukadinović, Radisav Vukadinović, Zoran Jevremović, Milka Jovanović (Serbia)

17. Empirical Models For The Correlation Of Global Solar Radiation With Sunshine Duration On A Horizontal Surface In Serbia
   Snežana Dragićević, Milan Plazinić (Serbia)

18. Influence Of Alloying With Palladium On Anneal Hardening Effect Of Copper Alloy
   Svetlana Nestorović, Dragana Živković, Mirjana Rajić Vujasinović, Ivana Marković (Serbia)

19. Development Of Optimal Svm Model For Wear Rate Prediction
   Radomir Slavkovic, Snezana Dragicevic, Zvonimir Jugovic, Vladimir Slavkovic (Serbia)

20. Dinamic Response Analysis Of Crusher Foundation
   Jelena N Stanković, Sandra M Filipović (Serbia)

21. Analytical Solution For Angle-Ply Plates Using First Order Shear Deformation Plate Theory And Navier Solution Type SS-2
   Sandra M. Filipović, Jelena N. Stanković (Serbia)

22. Assessment Of The Quality, Safety And Reliability Of Welded Construction With Numerical Modeling Method
   Sead Avdić (B&H)

23. Leaching Of Flotation Tailings
   Ljiljana Avramović, Radojka Jonović, Mile Bugarin, Radmila Marković, Jasmina Stevanović, Marko Jonović (Serbia)

24. The Methods Of Oxidation Of Sulphide Form Of Copper From Flotation Tailings
   Radojka Jonović, Mile Bugarin, Ljiljana Avramović, Zoran Stevanović, Marko Jonović (Serbia)
25. Examination Of The Metal Plate Effect As A Cover For Electromagnetic Field Of Mobile Phone
   Ana M. Plazinić, Milan V. Plazinić, Jeroslav M. Živanić (Serbia)
   Milenko Rimac, Mirsada Oruč, Emina Kratina, Omer Beganović, Strain Posavljač, Jusuf Duraković (B&H)
27. Pneumatic Conveying Of Fly Ash With Various Diameter Of The Pipeline
   Almin Halač, Ejub Džaferović (B&H)

THURSDAY, September 11th
10.15 – 11.45 SESSION I
Manufacturing Technology

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<th>Title</th>
<th>Authors/Institutions</th>
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<td>Cutting Parameters In The Minimum Quantity Lubricant (MQL) Machining Process Of A Gearbox</td>
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<td>Prediction Of The Main Cutting Force In Drilling By Kienzle Equation</td>
<td>Milenko Sekulić, Pavel Kovač, Marin Gostimirović, Miodrag Hadžistević, Zoran Jurković* (Serbia, *Croatia)</td>
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<td>Development Of An Inverse Model For Honing Processes By Means Of Neural Networks</td>
<td>Maurici Sivatte-Adroer, Xavier Llanas-Parra, Irene Buj-Corral, Joan Vivancos-Calvet (Spain)</td>
</tr>
<tr>
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<td>Study Of Alternatives For Obtaining Statistical Correlation Models For Modelling The Rough Honing Process</td>
<td>Irene Buj-Corral, Joan Vivancos-Calvet, Bernat Soler-Sala 062</td>
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<td>Cold Air Dry Machining, Part 1: Experimental Setup</td>
<td>Sabahudin Ekinović, Edin Begović, Belma Fakić, Adisa Burić, Aida Čeliković (B&amp;H)</td>
</tr>
<tr>
<td>6.</td>
<td>Cold Air Dry Machining, Part 2: Sem And Metallographic Analysis Of The Chip</td>
<td>Sabahudin Ekinović, Edin Begović, Belma Fakić, Adisa Burić, Aida Čeliković (B&amp;H)</td>
</tr>
<tr>
<td>8.</td>
<td>Experimental Studies On CO₂ Laser Cutting Of Low Alloy Steel Using Oxygen As Assist Gas</td>
<td>Đerzija Begić-Hajdarević, Ahmet Čekić, Ahmed Kadrić (B&amp;H)</td>
</tr>
<tr>
<td>9.</td>
<td>Some Specific Aspects Regarding The Manufacturing Of Special Worm Gear Drives</td>
<td>Csaba Gyenge, Valentin Boca, Calin Marian (Romania)</td>
</tr>
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<td>10.</td>
<td>Influence Of Cooling Fluid Application On Tool Wear During Machining Of Hardened Chrome Nickel Steel</td>
<td>Muhamed Mehmedović, Sabahudin Ekinović, Emir Šarić, Samir Butković (B&amp;H)</td>
</tr>
</tbody>
</table>
1. Implementation Of Intelligent Manufacturing Algorithms In Agile Architectures For Production: World Models For Systems Incorporating Binary And Continuous Variables
   Joaquim Minguella Canela, Irene Buj Corral, Joan Ramon Goma Ayats (Spain)
2. Die Forging Optimization By Means Of Group Technology And Expert System Using
   Jozef Kuba, Ján Moravec (Slovakia)
3. Cybernetic Access To Manufacturing Systems
   Elvis Hozdić, Emine Hozdić* (Slovenia, *B&H)
4. Sensor Application In Online Robot Programming
   Haris Lepić, Malik Čabaravdić (B&H)
5. Procedure For Visualization And Dynamic Analysis Of Robot Manipulator,
   Vjekoslav Damić, Maida Čohodar Husić* (Croatia, *B&H)
6. Measurement Uncertainty Evaluation According To ISO 17025: Laboratory Of MMI
   Bor, Serbia
   Biserka Trumić, Vesna Krstić, Lidija Gomidželović, Tamara Urošević, Marija
   Milivojević, Stefan Đordjevski, Zorica Petrović (Serbia)
7. Application Of AHP Method On Insurance Market In Montenegro
   Svetlana Rakocevic, Zdenka Dragasevic, Nevenka Glisevic B (Montenegro)
8. Software Tools For Project Management As A Lean Concept Support In The Process
   Of Technical System Overhaul
   Bogdan Marić, Ranko Božičković, Sabahudin Jašarević (B&H)
9. The Interrelationships Between Quality Management Practices And Their Effects On
   Innovation Performance
   Benjamin Duraković, Hazim Bašić, Haris Muhić (B&H)
10. Legal Aspects Of The Implementation Of Cyber-Physical System In Production Industry
    Mirzet Husić, Elvis Hozdić (Slovenia)
11. Lean Concept In The Maintenance
    Miodrag Bulatović, Dušan Đurović (Montenegro)
12. A Model Proposal To Measure National Intellectual Capital
    Ahmet Beşkese, F. Tunç Bozbura, Gökhan Aldemir (Turkey)
THURSDAY, September 11th
12.00 – 13.30  SESSION I
Chairmen: S. Brdarević, J. Vivancos, S. Pašić

1. Elid Single Side Grinding With Lapping Kinematics Of Ceramics Materials
   Ahmed B. Khoshaim, Zonghua Xu, Ioan D. Marinescu (USA)
2. Application Of Modeling And Simulation In Reengineering Of Manufacturing Processes
   Milan Jurkovic, Zoran Jurkovic*, Goran Cukor*, Miran Brezocnik**, Milenko Sekulic*** (B&H, *Croatia, **Slovenia, ***Serbia)
3. Punch Displacement Prediction In Air Bending Process Using Finite Element Simulation
   Emir Šarić, Muhamed Mehmedović, Samir Butković (B&H)
4. Capturing Of Workpiece Change Shape Of Deformation In Open Dies
   Mileta Janjić, Sreten Savićević, Nikola Šibalić (Montenegro)
5. Simulation Of The Heat Distribution By The Forward Cold Flow Forming
   Ibrahim Plančić, Malik Ĉabaravdić, Edin Begović, Sebastian Härtel*, Stefan Kleditzsch* (B&H, *Germany)
6. Hydroforming Technologies
   Edina Karabegović, I. Karabegović, M. Mahmić, E. Husak (B&H)
7. Investigation Of Hardness Profiles And Microstructure Change In The Weld Nugget And Haz Of Resistance Spot Welded Low Carbon Steel
   Jasmin Halilović, Samir Butković, Muhamed Mehmedović, Emir Šarić (B&H)
8. Surface Roughness Influence On Intermolecular Forces Ratio
   Mustafa Šehić1, Edin Džiho, Sead Pašić (B&H)
9. Friction Stir Welding Of Copper Alloys
   Milan Vukčević, Nikola Šibalić, Mileta Janjić (Montenegro)
10. Determination Of Mechanical Properties Of Copper Alloys, Obtained By Fsw Process
    Nikola Šibalić, Milan Vukčević, Sreten Savićević (Montenegro)
11. Verification Of Predicted Thermo-Cycles During Linear Friction Welding
    Petar Tasić, Damir Hodžić, Ismar Hajro (B&H)

THURSDAY, September 11th
12.00 – 13.30  SESSION II
Chairmen: A. Gungur, M* Antonia de los Santos, Š. Šikalo

1. Experimental Investigation Of Heat And Mass Transfer From A Falling Liquid Film
   Adis Đedović, Šefko Šikalo (B&H)
2. Experimental Study Of Flooding And Flow Reversal In An Air–Water Annular Flow
   Šefko Šikalo, Ifet Ajanović (B&H)
3. Numerical And Experimental Investigation Of Liquid Film Motion On An Inclined Wall
   Muris Torlak, Belma Muhić, Šefko Šikalo, Dželila Voloder (B&H)

   Edin Berberović (B&H)

5. Prediction Of Heating Energy Consumption In University Buildings Based On Simplified Artificial Neural Networks
   Radiša Ž. Jovanović, Aleksandra A. Sretenović, Branislav D. Živković (Serbia)

6. Implementation Of Autonomous Solar Systems For Power Supply Of Transport Facilities
   Aleksandar Stjepanović, Miroslav Kostadinović, Milorad Banjanin, Ferid Softić, Zlatko Bundalo (B&H)

7. Mathematical Modeling Of Surface Coefficient Of Heat Transmission By Cylindrical And Spherical Wall
   Rexhep A. Selimaj (Republic of Kosova)

8. Dynamic Analysis And Modeling Of Solar Radiation In A Closed Environment,
   Rexhep A. Selimaj, Sabrije F. Osmanaj (Republic of Kosova)

9. Application Of Artificial Neural Networks For Prediction Of Heating Energy Consumption In University Buildings
   Radiša Ž. Jovanović, Aleksandra A. Sretenović, Branislav D. Živković (Serbia)

**THURSDAY, September 11th**
**Production Technology & Materials**
**15.00 – 16.30 SESSION I**
**Chairmen: D. Petković, J. Vivancos, B. Fakić**

1. Unevenness Of Chemical Composition In Weld Metal Of Austenitic - Ferritic Welded Joints
   Radomir Jovićić, Meri Burzić, Radica Prokić - Cvetković, Olivera Popović, Katarina Jovićić (Serbia)

2. Influence Of Heat Treatment On The Properties Of Steel 17-7ph With Modified Chemical Composition
   Belma Fakić, Milenko Rimac, Adisa Burić, Diana Ćubela, Mihyar Noureldin Mahmoud* (B&H, “Sudan”)

3. Austempered Ductile Iron
   Avdusinovic Hasan, Almaida Gigovic, Nermin Mujezinovic (B&H)

4. Properties Of Self-Compacting Concrete Containing Type C Fly Ash
   Marina Jovanović, Adnan Mujkanović, Asim Ćamđzić, Denis Vežović (B&H)

5. Comparative Analysis Of High Temperature Strength Of Platinum And Its Binary Alloys
   Biserk Trumić, Saša Marjanović, Vesna Krstić (Serbia)
6. Prediction Of Mechanical Characteristics After Recrystalization Annealing Of PdNi5 Alloy By Using Statistical Analysis
   *Aleksandra T. Ivanovic, Biserka T. Trumić, Svetlana Lj. Ivanov, Sasa R. Marjanović (Serbia)*

7. Assessment Of Fatigue Crack Growth In Pipes Subjected To Variable Loading
   *Zoran D. Perović (Montenegro)*

8. Integrity Assessment Of Aboveground Oil Storage Tanks Due To The Corrosion Metal Loss
   *Ismar Hajro, Damir Hodžić, Petar Tasić (B&H)*

9. Regenerative Heat Treatment Of Heat Resistant Steel 14MoV6-3
   *Damir Hodžić, Ismar Hajro, Petar Tasić (B&H)*

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**THURSDAY, September 11th**

**Session II: Energy & Ecology**

**Chairmen:** A. Gungur, Š. Goletić, S. Ekinović

1. Hybrid Renewable Energy Systems: Case Study-Based Analysis Considering Varying Seasonal Conditions
   *Sabrije F. Osmanaj, Rexhep A. Selimaj (Republic of Kosova)*

2. Improving Resource Efficiency In The Production Process Steam
   *Jasmin Fejzić, Sanda Midžić – Kurtagić (B&H)*

3. Optimum Distribution Of Live Steam Production Between Three Units Of Power Plant Ljubljana
   *Igor Kustrin, Igor Bole (Slovenia)*

4. Wood Syngas As Co-Fuel In Industrial Furnaces
   *Andrej Senegačnik, Igor Kuštrin, Mihael Sekavčnik (Slovenia)*

5. Chimneys With Reduced Draft And Vapor Condensation Of Wet Flue Gas
   *Nijaz Delalić, Muris Torlak, Ejub Džaferovic (B&H)*

6. Control Systems In The Wind Turbines With Double Fed Induction Generator
   *Nedzmija Demirovic, Nerdina Mehinovic (B&H)*

7. Pollutant’s Concentration In The Lake –Testing And Analysis Of A Model
   *Rajfa Musemić, Selver Pepić (B&H)*

8. Research The Effects Of Road Traffic On Air Quality In Urban Areas Using Software Model Aermod
   *Šefket Goletić, Nusret Imamović, Nurudin Avdić (B&H)*

9. How Can We Contribute To Decreasing Harmful Emissions Through Legal Measures Aimed At Regulating Traffic?
   *Mirzet Husić (Slovenia)*

10. Thermal Treatment Of Waste In A Community Which Belongs To A Regional Landfill Moscanica
    *Semir Selimović, Nagib Neimarlija, Nedim Hodžić (B&H)*
THURSDAY, September 11th
16.45 – 18.15 SESSION I
Chairmen: S. Brdarević, M. Antonia de los Santos, D. Živković

1. Structural Analysis Of Some Bi-Ga-Ni Alloys

2. Comparative Characterization Of Electrochemically Deposited Gold Decorative Coatings
   Silvana B. Dimitrijević, Mirjana M. Rajčić-Vujasinović, Radmila M. Jančić-Hajneman, Jelena Bajat, Dejan D. Trifunović, Nikola S. Vuković, Vlastimir K. Trujić (Serbia)

3. Kinetics Of Crystallization In Partially Crystalline Metallic Glass Zr₅₃Cu₄₀Al₇

4. Preparation, Growth, and Optical Properties Of of (Al/Mg) Co-Doped ZnO Thin Films
   A. Gungör, D. Akcan, L. Arda (Turkey)

5. Testing Influence Of Sulfate On Corrosion Rate Of Steel Reinforcement In Concrete Caused By Action Of Chloride
   Farzet Bikić (B&H)

6. NiFe₂O₄ Nanocrystalline Powders Precipitated With Addition Of Soluble Starch As A Dispersing Agent
   Vladan R. Ćosović, Nadežda M. Talijan, Dragana T. Živković, Aleksandar R. Ćosović, Tomáš Žák*, Bohumil David* (Serbia, *Czech Republic)

7. The Investigation Of Possibilities Of Mono Al Phosphate And Alcr Phosphate Synthesis – The Binders For Refractories
   Nadira Bušatlić, Petar Petrovski, Ilhan Busatlić (B&H)

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THURSDAY, September 11th
16.45 – 18.15 SESSION II
Chairmen: J. Vivancos, A. Gungur, S. Buza

1. Can Crusher Design In Response To Environmental Concerns
   Shaban A. Buza, Kastriot A. Buza, Krenar Plana (Republic of Kosova)

2. Assessment Of Mercury Pollution In Soils Along Jala And Spreča River Banks In Bosnia And Herzegovina
   Amira Cipurković, Ivana Trumić, Vahida Selimbašić, Abdel Djozić, Jozo Tunjić, Zana Dulović Jusić (B&H)

3. Impact Of Household Energy Efficiency On Air Quality In Suburbs
   Senad Bajrić, Nagib Neimarlija, Azrudin Husika (B&H)

4. Highway Empirical Traffic Flow Patterns And Regression Analysis
   Mugdim Pašić, Izet Bijelonja, Emir Gusić (B&H)
5. Analysis Of Control Efficiency Of Vehicles Validity At Technical Inspection Stations Of Vehicles In Bosnia And Herzegovina – Period From 2008 To 2012
   *Fuad Klisura, Sabahudin Jašarević, Safet Brdarević, Mustafa Mehanović, Dragana Agić (B&H)*

6. The Method Of Calibration Of He-Ne Laser Using The Npl Iodine Stabilized He-Ne Laser With Wavelength At 633 nm
   *Alen Bošnjaković, Hazim Bašić (B&H)*

   *Bojan Acko, Matjaz Milfelner (Slovenia)*

8. The Innovation Climate Within Bosnia And Herzegovina’s Organizations
   *Darko Petkovic, Sanja Prodanovic, Hazim Basic (B&H)*

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**THURSDAY, September 11th Software Engg. & Mechanical Design**
18.30 – 20.00 SESSION I
Chairmen: D. Petković, M. Antonia de los Santos

1. Computer Aided Engineering And Drafting Of Bevel Gears
   *Janko D. Jovanović, Branko Govedarica* (Montenegro, *B&H*)

2. Application Of Computer Softwares In Design And Work Simulation Of Hydraulic Systems
   *Nedim Hodžić, Elma Ekinović, Mustafa Redžić (B&H)*

3. Evaluation Of Management Performance Pid Controller In Wireless Industrial Networks
   *Miroslav Kostadinović, Goran Kuzmić, Ana Vujičić*, Perica Gojković (B&H, *Serbia*)

4. Web-Based Application For Creative, Collaborative, And Concurrent Problem Solving
   *Zona Kostic, Dragan Cvetkovic, Dusko Radakovic, Igor Franc (Serbia)*

5. Design Of An Electronic Test For Students’ Evaluation In The Subject Of Informatics
   *Kastriot A. Buza, Florent Bunjaku, Shaban A. Buza (Kosova)*

6. The Functional Model For Planning Process As A Support To The Development Of An Information Subsystem
   *Nataša R. Gojgić, Vesna M. Petrović, Ivana M. Kršmanović, Marija D. Nikolić (Serbia)*

   *Amra Talić – Čikmiš, Amir Durmić, Milan Šljivić, Mićo Stanojević (B&H)*

8. A Phase Change Model For Multiphase Flows
   *Adnan Mašić, Samir Muzafetija* (B&H, *Germany*)
9. Analysis Of Stress-Strain State And Life Prediction Of Notched Structural Components Of Mine Hoists
   Mustafa Hadžalić, Mirsada Oruč, Raza Sunulahpašić (B&H)
10. Mode-Mixity In Numerical Simulation Of Frmm Test: Local Partitioning Using Cohesive Zone
    Josip Kačmarčik, Aleksandar Karač (B&H)
11. Experimental Identification Of Dynamic Behavior Of Vibrating Screen In Coal Mine Separation Department
    Nedeljko Vukojević, Fuad Hadžikadunić, Mustafa Imamović (B&H)

THURSDAY, September 11th
18.30 – 20.00 SESSION II
Chairmen: S. Brdarević, A. Gungur

1. Studying Luffing Motion Of Boom On Construction Cranes While Carrying Load Using Simulations
   Ilir Doçi, Blerim Morina (Republic of Kosova)
2. Kinematic Analysis Of The Human Knee Joint Trajectory During Stair Climbing Stance Period
   Vesna Raspudić (B&H)
3. The Application Of Software Automation Studio In Design And Work Simulation Of Hydraulic Systems
   Nedim Hodžić, Elma Ekinović, Mustafa Redžić (B&H)
4. Position Of Steel Tiebacks In The Function Of Concrete Retaining Wall Stability
   Nedim Suljić (B&H)
5. Theoretical Calculation Of Loaded Shells And Comparison With Obtained Numerical Results
   Sreten Savićević, Milan Vukčević (Montenegro)
6. Investigation Of Ballistic Properties Of Three Phased Fiber Hybrid Composite Structure
   Hakan Yilmaz, Fevzi Bedir, Umran Elmas (Turkey)
7. Aplication Of Control Terms P1 And P2 To Estimation Of Rotation Curve Of Stars
   Branko M. Novakovic, Dubravko N. Majetic, Josip J. Kasac, Danko S. Brezak, Vladimir M. Milic (Croatia)
8. Numerical And Experimental Methods For Determination Friction Coefficient
   Metat Ajdari, Sejdi Hoxha (Republic of Kosovo)
9. The Rational System Of Equations In The Modeling Anti-Competitive Populations
   Dževad Burgić, Almir Huskanović (B&H)
10. Content And Language Integrated Learning - A Way Forward In Engineering Education,
    Aida Tarabar (B&H)
11. Alternative Electricity Production Technologies For Turkey: Is There A Difference Between The Students’ And Academics’ Perceptions On Their Merits?
    Selim Gazel, Yıldız Arıkan, Demet Özgür-Ünlüakin (Turkey)