



**10. INTERNATIONAL SCIENTIFIC-PROFESSIONAL CONFERENCE
SBW 2019**

**„ENGINEERING TECHNOLOGIES IN MANUFACTURING OF WELDED
CONSTRUCTIONS AND PRODUCTS, SBW 2019“**

SLAVONSKI BROD, 16. - 18. 10. 2019.

SYMPOSIUM PROGRAM

16. October (Wednesday) 2019.

16,00	Laying a wreath at the Tomb prof. dr. ZVONIMIRA LUKAČEVIĆA
16,00-19,00	Setting up the exhibition: <i>Theatre and Concert Hall - KKD „ Ivana Brlić Mažuranić“ (address: Trg Stjepana Miletića 12 35000 Slavonski Brod)</i>
18,30-19,00	Registration: <i>Theatre and Concert Hall - KKD „ Ivana Brlić Mažuranić“ (address: Trg Stjepana Miletića 12 35000 Slavonski Brod)</i>
19,00	Opening Ceremony
19,30 h	Welcome banquet

17. October (Thursday) 2019.

<i>Theatre and Concert Hall -KKD „ Ivana Brlić Mažuranić“ (address: Trg Stjepana Miletića 12, 35000 Slavonski Brod)</i>	
8,00-9,00	Registration
9,00-10,00	Opening Ceremony, opening words guests and hosts
10,00-10,10	Pause

Invited lectures: Chairmans: Z. Kožuh, B. Despotović, V. Grabulov

10,10-10,30	Milan Marônek, Jozef Bárta, Michaela Lopatková, Katarína Bártová, Matej Pašák, Miroslav Sahul, Ján Urmínský <i>MECHANICAL PROPERTIES OF LASER BEAM WELDED AW2099 ALLOY JOINTS</i>
10,30-10,50	Tomaž Vuherer, Matej Pal, Darko Bajić, Mersida Manjgo, Mirza Manjgo, Ivan Samardžić, Živko Kondić <i>COMPARISON OF THE PROPERTIES AT ATIG AND TIG WELDED JOINTS WELDED ON THE X5CrNi18-10 STAINLESS STEEL</i>

SECTION I Chairmans: Z. Kožuh, B. Despotović, V. Grabulov

10,50-11,05	Dragan Mitić, Dragan Milčić, Miodrag Milčić, Nataša Zdravković <i>EXPERIMENTAL STUDY OF LOAD-CARRYING CAPACITY OF BUTT WELD JOINTS WITH PARTIAL JOINT PENETRATION</i>
11,05-11,20	<i>voestalpine BÖHLER WELDING</i>
11,20-11,35	S. Schartner, B. Rutzinger, D. Soellinger, P. Lumpf, A. Bauer K. Schneider, M. Schoerghuber <i>IMPACT OF NOVEL ARC CONTROL MECHANISMS ON THE PROPERTIES OF GAS METAL ARC (GMA) TANDEM WELDING</i>



10. MEĐUNARODNO ZNANSTVENO STRUČNO SAVJETOVANJE SBZ 2019.

“STROJARSKE TEHNOLOGIJE U IZRADI ZAVARENIH
KONSTRUKCIJA I PROIZVODA, SBZ 2019.”



Slavonski Brod 16.-18.10.2019.

11,35-11,50	Aleš Kocjančič <i>YASKAWA</i>
11,50-12,05	Wilhelm Gerald <i>WELDING OF HARDENABLE ALUMINIUM ALLOYS AW 6082 WITH HIGH-PERFORMANCE WELDING-PROCESSES</i>
12,05-12,20	<i>Pause</i>

SECTION II Chairmans: J. Pavić, G. Šimunović, J. Barta

12,20-12,35	Mersida Manjgo, Meri Burzić, Zijah Burzić, Senad Rahimić <i>ANALIZA NAPREZANJA I DEFORMACIJA NA VRHU RASTUĆE ZAMORNE PUKOTINE</i>
12,35-12,50	<i>HyperFill – Twin wire GMAW – high deposition, low difficulty, better quality</i>
12,50-13,05	Miodrag Arsić, Srđan Bošnjak, Vencislav Grabulov, Mladen Mladenović, Zoran Savić <i>CAUSE OF LAMELLAR TEARING OF PARENT MATERIAL AND DEGRADATION OF WELDED JOINTS AT VITAL WELDED STRUCTURES OF THE TURBINE AT HYDRO POWER PLANT 'DERDAP I'</i>
13,05-13,20	M. Schnick, V. Krink, J. Friedel, A. Gierschke <i>PLASMA CUTTING MADE FOR SMART FACTORY</i>
13,20-13,35	Krešimir Vrbanc <i>Pregled najvažnijih normi u tehnici zavarivanja</i> <i>OVERVIEW OF THE MOST IMPORTANT STANDARDS IN THE WELDING TECHNOLOGY</i>
13,35-13,50	Niko Majdandžić <i>A LOOK AT THE FUTURE OF TECHNOLOGY</i> <i>Jedan pogled u tehnološku budućnost</i>
13,50-14,45	<i>Launch (address: Šetalište Braće Radić 4, 35000 Slavonski Brod)</i>

SECTION III Chairmans: T. Vuherer, I. Samardžić, S. Cvetkovski

14,45-15,00	Miroslav Sahul, Martin Sahul, Marián Haršáni, Milan Marônek, Jozef Bárta <i>INVESTIGATION OF THE MICROSTRUCTURE AND MECHANICAL PROPERTIES OF ELECTRON BEAM WELDED AW2099 ALUMINIUM LITHIUM ALLOY</i>
15,00-15,15	Kladarić Ivica, Kladarić Slavica, Milinović Andrijana, Berić Nikolina <i>THE EFFECT OF AGING PARAMETERS ON HARDNESS AND DIMENSIONAL CHANGES OF MARAGING STEEL</i> <i>Utjecaj parametara starenja na tvrdoću i dimenzijske promjene maraging čelika</i>
15,15-15,30	Oleksandr Mychailovich Savitskyi, Mychailo Mychailovich Savitskyi, Darko Bajic <i>INFLUENCE OF THERMOPHYSICAL PROPERTIES OF MATERIALS ON FORMATION CONDITIONS AND QUALITY OF WELDED JOINTS</i>
15,30-15,45	Miodrag Arsić, Srđan Bošnjak, Vencislav Grabulov, Mladen Mladenović, Zoran Savić <i>INTEGRITY OF WELDED JOINTS BETWEEN PIPES FOR PRESSURE VESSELS MADE OF HOT ROLLED FINE-GRAINED STEEL P460NL1</i>
15,45-16,00	Filip Zdraveski, Dobro Runchev <i>INFLUENCE OF Cr CONTENT IN STEEL 12XIMF ON EXPLOITATION LIFE OF SUPERHEATER PIPES</i>
16,00-16,15	S. Rešković, M. Balenović, B. Grizelj, M. Duspara <i>INFLUENCE OF NIOBI ON QUALITY HIGH-FREQUENCY WELDED PIPE</i>
16,15-16,30	<i>Pause</i>

SECTION IV Chairmans: M. Dunder, T. Marsenić, R. Brzica

16,30-16,45	Goran Vručinić, Velimir Perkušić <i>O ZAHTJEVIMA ZA SPRIJEČAVANJE KRHKOGA LOMA U HRN EN 13480-2, HRN EN 13445, DODATAK B, METODA 2</i>
16,45-17,00	Ivan Petrović, Denis Pelin, Ivan Samardžić, Marinko Stojkov <i>PRIMJENA VISOKOFREKVENCIJSKIH PRETVARAČA U UREĐAJIMA ZA ZAVARIVANJE REL POSTUPKOM</i>
17,00-17,15	Antun Barac, Marija Živić, Mario Holik, Ružica Končić, Ivan Samardžić <i>COMPARISON OF EXPERIMENTAL AND ANALYTICAL SOLUTIONS OF TEMPERATURE FIELD IN A SUBMERGED ARC WELDING</i>
17,15-17,30	Ivica Lacković, Slaven Šimunić <i>MAKING OF WELDED CONSTRUCTIONS FROM 3D SKETCHES THROUGH 3D MODELS TO THE FINAL PRODUCT</i>
17,30-17,45	
20,00	<i>Gala Dinner, Hall „Kristal“ (address: Vjekoslava Babukića 12, 35000 Slav. Brod)</i>

POSTER SESSIONS (Chairmans: M. Duspara, M. Zovko)

Kolarec Martina, Duspara Miroslav, Stoić Marija, Stoić Antun <i>MACHINING OF ENGINE BLOCK CARRIER</i>
Branko Grizelj, Marija Stoić, Irena Jukić, Miroslav Duspara, Dejan Marić <i>THE FORCE OF DEEP DRAWING</i>
Leon Maglić, Olivera Maglić, Roman Novak Iskustva u implementaciji zahtjeva ISO 9001:2015 <i>EXPERIENCES FROM IMPLEMENTATION OF REQUIREMENTS OF ISO 9001:2015</i>
Pavić Josip, Samardžić Ivan, Marić Dejan, Tomislav Šolić, Marko Dunder Kompenzatori za tlačnu primjenu – materijali <i>METAL BELLOWS EXPANSION JOINTS FOR PRESSURE APPLICATIONS – MATERIALS</i>
Valnea Starčević, Ivan Putnik, Ivan Opačak, Almir Rebronja, Turgay Ozkan <i>TECHNOLOGY OF CYCLONE UPPER PART MANUFACTURING</i> <i>Tehnologija izrade gornjeg dijela ciklona</i>
Marko Horvat, Dejan Marić, Miroslav Duspara, Ivan Samardžić <i>APPLICATION OF CENTRAL COMPOSITE DESIGN TO OPTIMIZE THE WELDING PROCESS</i> <i>Primjena centralno kompozitnih planova pokusa pri optimiranju procesa zavarivanja</i>
Valnea Starčević, Ivan Opačak, Ivan Putnik, Almir Rebronja, Turgay Ozkan <i>WELDING DETAILS OF ELEMENT UNDER PRESSURE IN BOILER POWER PLANT MANUFACTURING</i> <i>Detalji zavarivanja dijelova pod tlakom u kotlogradnji</i>
Marko Horvat, Ivan Samardžić, Veljko Kondić, Živko Kondić <i>STENX®1300 – WELDING PARAMETERS ANALYSIS</i> <i>STENX®1300 – analiza parametara zavarivanja</i>
Zvonimir Kovačev, Pejo Ponjatić, Darko Damjanović, Dorian Turk <i>WELDING SIMULATION USING ELEMENT BIRTH AND DEATH METHOD IN ANSYS SOFTWARE AND RESIDUAL STRESS COMPARISON</i>
Ivan Samardžić, Marko Horvat, Katarina Pisačić, Zlatko Botak <i>THE PROPERTIES AND APPLICATION OF HIGH STRENGTH STEELS</i> <i>Svojstva i primjena visokočvrstih čelika</i>
Tihomir Marsenić, Krešimir Lesan, Božo Despotović <i>WELDERS QUALIFICATION IN ACCORDANCE WITH INDIAN BOILER REGULATIONS</i> <i>Kvalifikacija zavarivača u skladu s indian boiler regulations</i>
Mirjana Čičak, Gordana Zeba <i>INFORMATION AND COMMUNICATIONS TECHNOLOGY IN WELDING</i> <i>Informacijsko komunikacijske tehnologije u zavarivanju</i>

Gordana Zeba, Mirjana Čičak <i>RFID TECHNOLOGY IN MANUFACTURING OF WELDED PRODUCTS</i>
Maja Jurica, Zoran Kožuh, Filip Daničić, Jadranka Eržišnik <i>EFFECT OF ZINC COATING THICKNESS ON CMT WELD QUALITY</i> <i>Utjecaj debljine cinkovog premaza na kvalitetu zavarenog spoja izvedenog cmt načinom prijenosa metala</i>
Sara Havrlišan, Katica Šimunović, Tomislav Šarić, Goran Šimunović, Ilija Svalina, Štefanija Klarić <i>INFLUENCE OF POWDER QUALITY AND ADDITIONAL FLAME SPRAYING ON ABRASIVE WEAR RESISTANCE OF COATING</i> <i>Utjecaj kvalitete praška i naknadnog naštrcavanja na otpornost prevlake na abrazijsko trošenje</i>
Josip Cumin, Dejan Marić, Miroslav Duspara, Ivan Putnik <i>ANALYSIS OF CLINCHING FORCE AND TIME, ON THE GEOMETRIC AND MECHANICAL SHEET METAL (AlMg3) CLINCHED JOINT PROPERTIES</i>
Dubravko Šotola, Ivan Grgić, Željko Ivandić, Mirko Karakašić <i>WELD LOADS ANALYSIS OF THE CAR ENGINE STAND</i> <i>Analiza nosivosti zavara nosača automobilskih motora</i>
Sveto Cvetkovski, Vencislav Grabulov, Nazif Jashari <i>INVESTIGATION OF MICROSTRUCTURAL AND MECHANICAL PROPERTIES OF SUBMITTED WELDED PARTS – PULLING PIPES</i>
Vlatko Marušić, Amela Porobić, Ivo Đurić, Ilija Džepina, Ivan Opačak <i>THE APPLICATION OF SOME METHODS FOR MATERIALS TESTING WITH AND WITHOUT DESTRUCTION</i>
Dorian Turk, Pejo Konjatić, Ivan Gelo, Zvonimir Kovačev <i>WELD THICKNESS CALCULATION OF REMOTE CONTROL LAWN MOWER ADD-ON FRAME</i>

18. October (Friday) 2019.

9,00 h – The main - southern entrance ĐĐ (address: Street Dr. Mile Budaka 1, 35000 Slavonski Brod) - Visit to companies in Đuri Đaković (Demonstration welding)

12,30 ~ 17,00 h - Closing of the Conference (Eko-Etno Salaš Savus) - Departure by bus from the main entrance to the south- ĐĐ at 11,30



Map of conference



Papers