



**Društvo za tehniku zavarivanja Slavonski Brod
Welding Society in Slavonski Brod**

PROGRAM

**12. MEĐUNARODNO ZNANSTVENO-STRUČNO SAVJETOVANJE SBZ 2023
„STROJARSKE TEHNOLOGIJE U IZRADI ZAVARENIH KONSTRUKCIJA
I PROIZVODA, SBZ 2023.“**





**12. INTERNATIONAL SCIENTIFIC-PROFESSIONAL CONFERENCE SBW 2023
„ENGINEERING TECHNOLOGIES IN MANUFACTURING OF WELDED CONSTRUCTIONS AND
PRODUCTS, SBW 2023.“**


SLAVONSKI BROD (26. and 27. 04. 2023.) and POŽEGA (28. 04. 2023.)

SYMPOSIUM PROGRAM

26th April (Wednesday) 2023

14,00-17,00	Setting up the exhibition: <i>(Đuro Đaković - Ulica 108. brigade ZNG 36, 35000 Slavonski Brod) - Building 10</i>	
17,00	Laying a wreath at the Tomb prof. dr. ZVONIMIRA LUKAČEVIĆA	
17,00-18,00	Registration: <i>(Đuro Đaković - Ulica 108. brigade ZNG 36, 35000 Slavonski Brod) - Building 10</i>	
18,00	Opening Ceremony	
18,30 h	Welcome banquet	

27th April (Thursday) 2023

<i>(Đuro Đaković - Ulica 108. brigade ZNG 32, 35000 Slavonski Brod) - Building 9</i>		
8,00-9,00	Registration	
9,00-10,10	Opening Ceremony, opening words guests and hosts	
10,10-10,15	Pause	







SECTION I Chairmans: Z. Kožuh, J. Pavić

	<i>(Đuro Đaković - Ulica 108. brigade ZNG 36, 35000 Slavonski Brod) Building 10</i>	
10,15-10,35	INFLUENCE OF HIGH HEAT INPUT OF D-ARC WELDING PROCESS ON THE WELD PROPERTIES FROM S355 STEEL <i>Tomaž Vuherer, Ivica Garašić, Marjan Golob, Mersida Manjgo, Darko Bajić, Gorazd Lojen</i>	
10,35-10,55	MECHANICAL PROPERTIES EVALUATION OF WELDED JOINTS MADE OF ALUMINUM ALLOY AW7075 BY THE FRICTION STIR WELDING <i>Jozef Bárta, Jan Urminsky, Milan Marônek, František Jurina, Ivan Buransky Katarina Bártová, Jana Ptačinova</i>	
10,55-11,10	DISSIMILAR WELDING OF ALUMINUM ALLOYS 2024 T351 AND 6082 T6 BY TIG PROCESS <i>Dragan Milčić, Miodrag Milčić, Tomaž Vuherer, Aleksija Đurić, Dragan Mitić, Andreja Radovanović</i>	
11,10-11,25	MIG ARC BRAZING PROCESSES FOR HOT-DIP GALVANIZED MEDIUM-THICKNESS SHEETS AND THEIR QUALITY VERIFICATION <i>Josip Strutz, Ivan Samardžić, Katica Šimunović</i>	
11,25-11,40	PRAKTIČNE APLIKACIJE ODSISA I FILTRACIJE DIMOVA I PRAŠINE U METALNOJ INDUSTRIJI - JUŽNI PROLAZ <i>Karla Krolo</i>	
11,40-11,55	COMPARATIVE ANALYSIS OF THE QUALITY OF WELDED JOINTS OF DUPLEX STEEL 1.4462 MADE BY ELECTRIC ARC METHODS <i>Dejan Delić, Darko Bajić, Mirza Manjgo, Mersida Manjgo, Tomaž Vuherer</i>	
11,55-12,10	TIG DYNAMIC WIRE – EUROTEHNIKA <i>Ante Jerković</i>	
12,10-12,25	INFLUENCE OF THE METAL CORED AND FLUX CORED WIRE ON THE STRUCTURAL STEEL WELDED JOINTS <i>M. Petreski, D. Runchev, G. Vrtanoski, A. Krstevska</i>	
12,25-12,40	ANALYSIS OF OXYGEN CONTENT IN ROOT PROTECTION ON THE CORROSION RESISTANCE OF THE STAINLES STEEL WELDED JOINT <i>Marko Frajzman, Ivica Garašić, Maja Jurica, Jadranka Eržišnik</i>	
12,40-12,55	PYTHON-BASED CALCULATION AND DISPLAY OF TEMPERATURE FIELD DISTRIBUTION IN ARC WELDING <i>Ivor Šantak, Antun Barac, Mario Holik, Marija Živić</i>	
	Launch <i>(Đuro Đaković - Ulica 108. brigade ZNG 36, 35000 Slavonski Brod) - Building 10</i>	



SECTION II Chairmans: V. Grabulov, D. Kozak

14,00-14,15	<p>THE EFFECT OF SHIELDING GAS ON SELECTED GEOMETRIC CHARACTERISTICS OF MULTILAYER WALLS PRODUCED BY WAAM</p> <p><i>Milan Marônek, Jozef Bárta, Jan Urminsky, Katarina Bártová, Filip Šugra</i></p>	
14,15-14,30	<p>ADVANCED WELDING TECHNOLOGIES BY VOESTALPINE BÖHLER WELDING RAPIDDEEP AND QUICKPULSE FOR IMPROVED PRODUCTIVITY</p> <p><i>Mikhail Kiselev</i></p>	
14,30-14,45	<p>THE ANALYSIS OF THE OCCURRENCE OF DEFECTS AND DISCONTINUITIES IN THE REW WELD OF DP STEEL AND ALUMINUM ALLOY</p> <p>Aleksija Đurić, Dragan Milčić, Damjan Klobčar, Biljana Marković, Miodrag Milčić</p>	
14,45-15,00	<p>KOORDINACIJA I NADZOR ZAVARIVAČKIH RADOVA NA MONTAŽI BOF KONVERTORA</p> <p><i>Resul Hamzić, Namik Džibrić, Sead Avdić</i></p>	
15,00-15,15	<p>INDUSTRIJA 4.0 – KLJUČNI BENEFITI IMPLEMENTACIJE I PRIMJENE U METALNOJ INDUSTRIJI S NAGLASKOM NA PROCES REZANJA METALA I OPERACIJE ZAVARIVANJA</p> <p><i>Tanja Rukavina - CATCNC</i></p>	
15,15-15,30	<p>THE INFLUENCE OF THE AR-HE SHIELDING GAS MIXTURE ON THE MECHANICAL PROPERTIES OF THE WELDED JOINT OF P91 STEEL</p> <p><i>Kristijan Jurgec, Ivica Garašić, Maja Jurica, Jadranka Eržišnik</i></p>	
15,30-15,45	<p>APPLICATION OF COATING FOR REVITALIZATION COMPLEX THERMOENERGETIC FACILITIES</p> <p><i>Marko Ristic, Ivana Vasović Makismović, Srećko Manasijević</i></p>	
15,45-16,00	<p><i>Pause</i></p>	


SECTION III Chairmans: D. Bajić, T. Marsenić

16,00-16,15	MECHANICAL PROPERTIES OF WELDS OBTAINED BY BOBBIN TOOL FRICTION STIR WELDING PROCESS <i>M. Pecanac, D. Labus Zlatanovic, N. Kulundzic, M. Dramićanin, S. Balos</i>	
16,15-16,30	THE FUTURE IN SERIAL PRODUCTION WITH HIGH ADAPTABILITY Ivica Lacković, Slaven Šimunić	
16,30-16,45	DETERMINATION OF OPTIMAL WELDING SEQUENCE FOR T-JOINT OF ALUMINIUM ALLOY BY NUMERICAL SIMULATIONS <i>Marko Mumović, Nikola Šibalić, Milan Vukčević, Darko Bajić,</i>	
16,45-17,00	USPOREDBA OTPORNOSTI NA TROŠENJE TVRDIH NAVARENIH PREVLAKA U MASI ABRAZIVA Ivan Vidaković, Goran Pačarek, Goran Heffer, Katica Šimunović, Tomislav Giber	
17,00-17,15	MELTING OF GALLIUM WITH THE INFLUENCE OF NATURAL CONVECTION Matej Đuranović, Antun Barac, Mateja Labudović, Marija Živić	
20,00	GALA DINNER, RESTAURANT “MY WAY” (address: Trg Ivane Brlić Mažuranić 10, 35000, Slavonski Brod)	












28th April 2023 (Friday) (Požega)

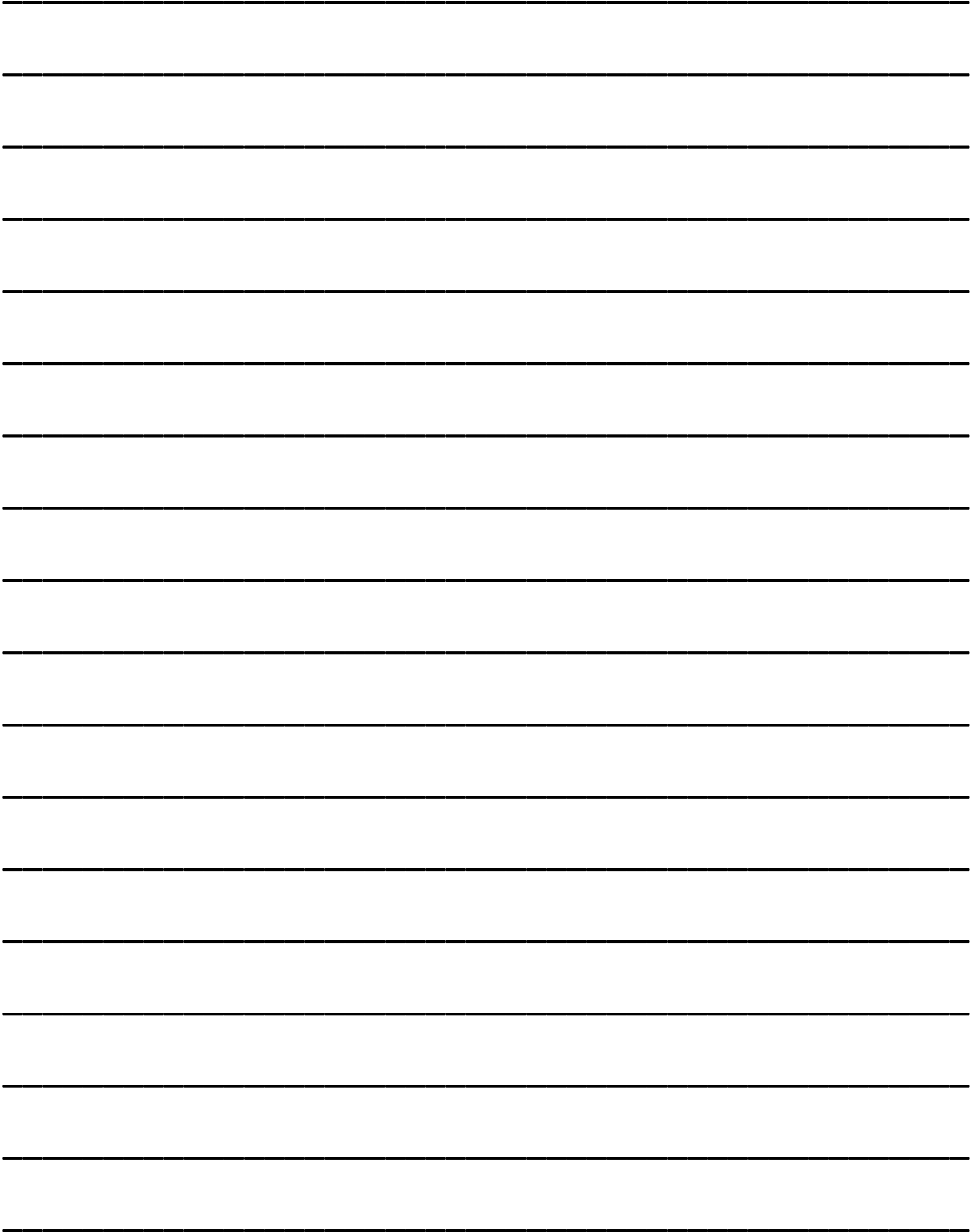
9,30-12,30	Departure of the bus - (<i>Đuro Đaković - Ulica 108. brigade ZNG 36, 35000 Slavonski Brod</i>) - Building 10- Visit to company MAGMA (address – <i>Industrijska 27, 34000 Požega</i>)	
13,00	Closing of the Conference (Zlatni Lug) - Departure by bus from the company MAGMA to Zlatni LUG (address: <i>Donji Emovci 32, 34000 Požega</i>)	
≈16,00	Return to Slavonski Brod by bus	

POSTER SESSIONS

<p><i>PROCESS PARAMETERS FOR CMT ROBOTIC CORROSION RESISTANT OVERLAY WELDING OF WATER TUBE MEMBRANE WALLS</i></p> <p><i>Arijan Herceg, Leon Maglić</i></p>	
<p><i>WELDING SUPERVISION AND QUALITY CONTROL OF FURNACE TURNAROUND IN THE REFINERY</i></p> <p><i>Mijat Samardžić, Marko Zovko, Stjepan Rubil, Mislav Teskera</i></p>	
<p><i>MECHANICAL PROPERTIES OF STEEL P91 AND STEEL 12X18H12T IN DISSIMILAR PIPE WELDS USED IN BOILER COMPONENTS</i></p> <p><i>Aleksandra Krstevska, Filip Zdraveski, Marja Gavriloski, Martin Petreski</i></p>	
<p><i>SPRINGBACK</i></p> <p><i>Branko Grizelj, Marija Stoić, Valnea Starčević, Katica Vuletić</i></p>	
<p><i>KONSTRUKCIJSKA PRIMJENA SILICIJEVOG NTRIDA</i></p> <p><i>Slavica Kladarić, Ivica Kladarić</i></p>	
<p><i>INVESTIGATION OF THE MICROSTRUCTURE OF SUPERHEATER INLET TUBES BY APPLICATION OF THE METALLOGRAPHIC REPLICATION METHOD</i></p> <p><i>Andrijana Milinović, Ivan Opačak, Ivica Kladarić, Josip Spajić</i></p>	
<p><i>DEVELOPMENT OF A MODEL FOR ASSESSING THE QUALITY OF WELDED JOINTS</i></p> <p><i>Ivan Dunder, Zlatko Tonković, Pejo Konjatić, Dejan Marić, Ana Konjatić, Marko Dunder</i></p>	
<p><i>KORIŠTENJE METODE VIBRACIJA U KOREKTIVNIM AKTIVNOSTIMA REKONSTRUKCIJE VAKUM PEĆI</i></p> <p><i>Tomislav Šarić, Mate Pavić, Katica Šimunović, Sara Havrlišan, Goran Šimunović, Ilija Svalina</i></p>	
<p><i>MECHANISED CLADDING IN SITU CONDITIONS: CHALLENGES, EXPERIENCE AND PERSPECTIVE</i></p> <p><i>Valnea Starčević, Ivan Opačakž, Ivan Putnik, Branko Grizelj, Mladen Bošnjak, Tihomir Marsenić, Monika Činkl</i></p>	
<p><i>IZRADA MODELA ZA TOČNI LJEV ADITIVNIM TEHNOLOGIJAMA</i></p> <p><i>Daniel Novoselović, Štefanija Klarić, Josip Cumin, Nikolina Berić</i></p>	
<p><i>APPLICATION OF DESIGN OF EXPERIMENT (TAGUCHI METHOD) ON ANALYSIS OF 3D PRINTING PARAMETERS</i></p> <p><i>Huifeng Wang, Stefanija Klaric, Sara Havrlisan</i></p>	

POSTER SESSIONS

<p><i>SIMULATION OF FLANGE PRODUCTION IN EMCO PROGRAM</i></p> <p><i>Miroslav Duspara, Marija Stoić, Božidar Kovačević, Antun Stoić</i></p>	
<p><i>KONTROLA KVALITETE ZAŠTITNOG SLOJA APLICIRANOG POSTUPKOM KATAFOREZE</i></p> <p><i>Tomislav Šolić, Ivan Peko, Sara Radojičić, Mijat Samardžić, Petar Matoš, Ivan Samardžić</i></p>	
<p><i>ANALIZA TOPLINSKE IZOLACIJE PEĆI ZA SUŠENJE ELEKTRODA</i></p> <p><i>Iva Samardžić, Antun Barac, Tomislav Šolić, Sanda Šimunović, Mijat Samardžić, Ivan Sigurnjak, Božidar Kovačević</i></p>	
<p><i>CONTRIBUTION OF THE REGIONAL COMPETENCE CENTERS FOR MECHANICAL ENGINEERING TO CHANGES OF THE EDUCATION OF WELDERS</i></p> <p><i>Božica Rajković, Ana Konjatić, Iva Samardžić, Ivan Samardžić</i></p>	
<p><i>THE ENDVIEW OF WELDING THE COMPOSITE TUBES AT MANUFACTURING OF RECOVERY BOILER</i></p> <p><i>Monika Činkl, Marsenić Tihomir, Marijan Bošnjak, Despotović Božo</i></p>	
<p><i>THE ENDVIEW OF WELDING THE BUTT JOINT OF OVERLAID TUBES WASTE TO ENERGY BOILER</i></p> <p><i>Bošnjak Marijan, Marsenić Tihomir, Monika Činkl, Despotović Božo</i></p>	
<p><i>COMPARISON OF FILLET WELD CALCULATIONS USING SOFTWARES IDEA STATICA AND ABAQUS CAE</i></p> <p><i>Marko Vilić, Jure Marijić, Ivan Grgić, Mirko Karakašić, Željko Ivandić</i></p>	
<p><i>IMPLEMENTATION OF BIRTH AND DEATH TECHNIQUE IN ANSYS SOFTWARE FOR WELDING DISTORTION SIMULATION</i></p> <p><i>Petar Poljak, Marko Pavković, Pejo Konjatić, Ivan Gelo</i></p>	
<p><i>WELDING OF HIGH-STRENGTH S690QL STEEL</i></p> <p><i>Mario Jagnjić, Dejan Marić, Krešo Didić, Sara Radojičić, Tomislav Šolić, Jadranka Eržišnik</i></p>	
<p><i>METAL BELLOWS EXPANSION JOINTS FOR PRESSURE APPLICATION - BELLOWS ATTACHMENT WELDS</i></p> <p><i>Josip Pavić, Ivan Samardžić, Dejan Marić, Marko Dunder</i></p>	
<p><i>AHSS - CLASSIFICATION, PROPERTIES AND APPLICATION</i></p> <p><i>Marko Horvat, Zlatko Botak, Dejan Marić, Jadranka Eržišnik</i></p>	





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