

11. INTERNATIONAL SCIENTIFIC-PROFESSIONAL CONFERENCE SBW 2021

„ENGINEERING TECHNOLOGIES IN MANUFACTURING OF WELDED CONSTRUCTIONS AND PRODUCTS, SBW 2021“

SLAVONSKI BROD, 03. - 05. 11. 2021.

SYMPOSIUM PROGRAM

03 November (Wednesday) 2021.

14,00-17,00	Setting up the exhibition: <i>Theatre and Concert Hall - KKD „ Ivana Brlić Mažuranić“ (address: Trg Stjepana Miletića 12, 35000 Slavonski Brod)</i>
17,00	Laying a wreath at the Tomb prof. dr. ZVONIMIRA LUKAČEVIĆA
17,00-18,00	Registration: <i>Theatre and Concert Hall - KKD „ Ivana Brlić Mažuranić“ (address: Trg Stjepana Miletića 12, 35000 Slavonski Brod)</i>
18,00	Opening Ceremony
18,30 h	Welcome banquet

04 November (Thursday) 2021.

<i>Theatre and Concert Hall -KKD „ Ivana Brlić Mažuranić“ (address: Trg Stjepana Miletića 12, 35000 Slavonski Brod)</i>	
8,00-9,00	Registration
9,00-10,10	Opening Ceremony, opening words guests and hosts
10,10-10,15	Pause

SECTION I Chairmans: Z. Kožuh, J. Pavić

10,15-10,30	POST WELD HEAT TREATMENT OF A HIGH-TEMPERATURE STEEL <i>Tomaž Vuherer, Marko Dunđer, Ivan Samardžić, Gorazd Lojen</i>
10,30-10,50	GREENWAVE®: PATENTED BÖHLER WELDING TECHNOLOGY - EXTREMELY ENERGY-EFFICIENT OPERATION WITH OPTIMIZED POWER CONSUMPTION” <i>Mikhail Kiselev - voestalpine BÖHLER WELDING</i>
10,50-11,15	STRUCTURAL INTEGRITY OF SPHERICAL STORAGE TANKS-REVIEW PAPER IN MEMORY OF PROF. STOJAN SEDMAK AND PROF. ZVONKO LUKAČEVIĆ <i>Aleksandar Sedmak, Blagoj Petrovski, Dražan Kozak, Ivan Samardžić, Simon Sedmak, Aleksandar Milovanovic</i>
11,05-11,25	INCREASED PRODUCTIVITY BY USE OF TPSI TWIN PCS WELDING PROCESS <i>Michael Eberhard - Fronius International GmbH</i>
11,25-11,40	EXPERIMENTAL DETERMINATION OF HIGH-CYCLIC FATIGUE PARAMETERS OF WELDED JOINT OF HIGH-ALLOY STEEL X20 <i>Vencislav Grabulov, Zijah Burzić, Dženana Gačo, Meri Burzić, Srđa Perković</i>
11,40-12,10	INNOVATIVE WELDING-AUTOMATION - BY USING COLLABORATIVE SYSTEMS <i>David Pührerfellner - Lorch Schweifstechnik GmbH</i>
12,10-12,25	ABRASION AND EROSION PROPERTIES OF IR DRIED COATINGS <i>Ivan Cindrić, Lara Janković, Ivan Stojanović, Ivan Juraga, Dražen Mezdić, Hrvoje Franjić</i>
12,25-12,45	NEW TRENDS IN ROBOT WELDING <i>Denis Medved - Yaskawa Slovenija d.o.o.</i>
12,45-13,00	APPLICATION OF THERMOGRAPHY IN DETERMINING THE PROPORTIONALITY LIMIT <i>Tin Brlić, Stoja Rešković, Ivan Jandrlić, Tamara Aleksandrov Fabijanić, Ladislav Lazić</i>
Launch (address: Šetalište Braće Radić 4, 35000 Slavonski Brod)	

SECTION II Chairmans: V. Grabulov, D. Kozak

14,00-14,20	TREĆA GENERACIJA IMPULSNIH IZVORA STRUJE <i>Trea Trade d.o.o.</i>
14,20-14,35	ANALIZA ZAOSTALIH NAPONA U ZAVARENOM SPOJU ČELIKA VISOKE ČVRSTOĆE <i>Mirza Manjgo, Tomaž Vuherer, Darko Bajić, Mersida Manjgo</i>
14,35-14,55	ARCREACH TEHNOLOGIJA MILLER ELECTRICA <i>Južni prolaz d.o.o.</i>
14,55-15,10	RESISTANCE SPOT WELDING OF STEEL SHEET DP500 - INFLUENCE OF THE WELDING CURRENT ON THE MICROHARDNESS AND WELD NUGGET DIAMETER <i>Aleksija Đurić, Dragan Milčić, Biljana Marković, Damjan Klobčar, Miodrag Milčić, Dragan Mitić</i>
15,10-15,25	APPLICATION OF CMT PROCESS FOR WIRE AND ARC ADDITIVE MANUFACTURING <i>Mislav Štefok, Ivan Jurić, Zoran Kožuh, Jadranka Eržišnik</i>
15,25-15,40	SKILLED LABOR SHORTAGE-REASONS-EFFECTS-POTENTIAL SOLUTIONS <i>A. König, A. Schmelzer, Z. Kelemen, F. Benus Jr, E. Margeta, D. Knežević, D. Samardžija, S.Savu, K. Ochmirova, C. Schroder, A. Fernandez Perez, R.G. Diaz, K. Koch, M. Toronjo, A.F.Mendes, A. Almeida, Ž. Habek</i>
15,40-15,55	APPLICATION OF NiBSi-WC COATING AS WEAR PROTECTION OF AGRICULTURAL MACHINERY PARTS <i>Ivan Vidaković, Goran Heffer, Katica Šimunović, Ivan Samardžić, Vedrana Špada</i>

16,00-17,30	<i>Organized tourist trip through Slavonki Brod (Galerija Ružić, Kuća Tambure)</i>
20,00	<i>Gala Dinner, Hall „Kristal“ (address: Vjekoslava Babukića 12, 35000 Slav. Brod)</i>

05 November (Friday) 2021.

9,30-12,15	<i>The main - southern entrance ĐĐ (address: Street Dr. Mile Budaka 1, 35000 Slavonki Brod) - Visit to companies in Đuri Đaković Group (Demonstration welding)</i>
13,00	<i>Closing of the Conference (Stupnički Dvori) - Departure by bus from the main entrance to the south- ĐĐ at 12,15</i>

DIGITAL PAPERS

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TECHNOLOGY PROCEDURE OF FURNACE GRID MANUFACTURING
Valnea Starčević, Ivan Opačak, Ivan Putnik, Turgay Özkán, Branko Grizelj

2

NUMERICAL ANALYSIS OF THE WELDED JOINT OF THE LIFTING LUG
Sara Radojičić, Pejo Konjatić, Dorian Turk, Josip Kačmarčik

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INFLUENCE OF JOINT DESIGN PREPARATION CHOICE ON TOTAL WELDING TIME
Juraj Barukčić, Tihomir Marsenić, Marijan Bošnjak, Mijat Samardžić, Božo Despotović

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ANALYSIS OF 3D PRINTED NOTCHED SPECIMENS
Tamas Zsebe, Gyula Ferenc Vasvari, Ferenc Orban, Franjo Dako, Branko Grizelj, Ivan Samardžić

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ADAPTACIJA LABORATORIJSKE VJEZBE IZ ZAVARIVANJE ZA ONLINE NASTAVU
Štefanija Klarić, Andrew Ward, Sara Havrlišan

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PERFORMANCE OF THE DEVICE FOR REMOVING THE INTERNAL EXCESS OF WELDING ON SEAM PIPES
S. Rešković, B. Grizelj, M. Balenović, I. Samardžić, L. Lazić, M. Duspara

7

SOME WAYS OF ACQUIRING KNOWLEDGE IN THE FIELD OF WELDING IN TEACHING VOCATIONAL SUBJECTS
Božica Rajković

8

USPOREDBA POSTUPAKA U PROIZVODNJI METALNIH MJEHOVA I ISPITIVANJE KRUTOSTI I IZVIJANJA
Marija Stoić, Igor Čretni, Branko Grizelj, Antun Stoić, Maja Čuletić Čondrić, Miroslav Duspara

9

ANALYSIS OF CONVENTIONAL AND FEM APPROACH TO UPSETTING 6061 ALUMINIUM CYLINDERS
Josip Cumin, Domagoj Flegar, Daniel Novoselović, Dejan Marić, Waldemar Matysiak

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TEHNOLOGIJA IZRADE PLAŠTA CISTERNE
Marija Stoić, Josip Gavran, Branko Grizelj, Maja Čuletić Čondrić, Slavica Kladarić, Olivera Maglić

11

QUALITY CONTROL AT STAPLES PRODUCTION
Leon Maglić, Olivera Maglić, Marin Pršlja

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BASIC STRENGTHENING MECHANISMS OF HIGH-STRENGTH STEELS
Marko Horvat, Katarina Pisačić, Zlatko Botak, Ivan Samardžić

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TERMAL INSULATION OF WOOD CHIPS POWER PLANT
Mladen Bošnjaković, Ivan Hećimović, Marinko Stojkov

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METAL BELLOWS EXPANSION JOINTS FOR PRESSURE APPLICATION-APPLICATION OF WELDING TECHNOLOGY
Pavić Josip, Samardžić Ivan, Marić Dejan, Horvat Marko, Jadranka Eržišnik

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DIGITAL REALITY-TECHNOLOGY FOR SUSTAINABLE SKILLS DEVELOPMENT IN VOCATIONAL EDUCATION AND TRAINING
Ferenc Benus Jr, Zoltan Kelemen, Edita Margeta, Darko Samardžija, Davor Knežević, Sorin Savu, Katarina Ochmirova, Christian Schrøder, Marta Toronjo Leandres, Antonio Fernandez Perez, Rocio Diaz Gomez, Katarzyna Koch, Ana Filipa Mendes, Adelaide Almeida, Anja König, Aimeé Schmelzer, Željko Habek

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TESTING OF THE OVERLAY WELD OF INCONEL ALLOY
Ivica Kladarić, Marin Plašćak, Slavica Kladarić, Nikolina Berić, Andrijana Milinović

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REPAIR MAIN CYLINDER PRESSES SECIM 500 TONS
Dunder Marko, Samardžić Ivan, Samardžić Mijat, Dunder Ivan

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ANALYSIS OF BUTTERING ON MECHANICAL PROPERTIES WELDED MATERIAL P460L
Mario Jagnjić, Dejan Marić, Tomislav Šolić, Aleksandar Bašić, Mijat Samardžić

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WELDING OF HARD METAL ON A PLOWSHARES USING A ROBOT
Dejan Marić, Aleksandar Bašić, Tomislav Šolić, Jadranka Eržišnik, Ivan Samardžić

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PROJECTING LASER NOZZLE REPLACEMENT SYSTEM
Miroslav Duspara, Mislav Bošnjak, Marija Stoić, Antun Stoić

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WELDONE CURRICULUM FOR WELDING TEACHERS AND TRAINERS
Susana Nogueira, Adelaide Almeida, Raquel Almeida, Taniá Avelino, Ferenc Benus, Zoltan Kelemen, Edita Margeta, Mirta Szügyi, Danut Savu, Ilias M. Rafail, Virginia Rista, Željko Habek

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ANALYSIS OF VARIANCE OF THE VOLUME LOSS DUE TO ABRASION WEAR
Sara Havrlišan, Katica Šimunović, Tomislav Šarić, Ilija Svalina, Dražen Turinski, Roberto Lujčić Branko Štrbac, Goran Šimunović

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EXAMINATIONS OF THE WELDED JOINT OF STEEL FOR QUENCHING AND TEMPERING
Ivan Opačak, Mario Brnjić, Ante Marušić, Nikolina Berić

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APPLICATION CAPABILITY OF SOME STEELS FOR ELEMENTS CONSTRUCTION OF ELEVATOR EXPOSED TO TRIBOCORROSION
Ivan Opačak, Mijat Samardžić, Ante Marušić, Nikolina Berić