

Section 1: PRODUCTION ENGINEERING

September 22, 2022 (Faculty, room 101, posters in 205)

Moderators: Slavica Kladarić, Nataša Veljić

- 13:00 Application of computers and knowledge of ICT in agriculture, Petar Nakić, Ivica Lackovic, Tomislav Ćosić and Ivica Džambo
- 13:15 Biofuel from plastic waste, Mladen Bošnjaković, Mato Galović and Ivica Lacković
- 13:30 The Impact of Digitalization on Logistics Today, Adrienn Boldizsár, Ferenc Mészáros, B. R. Busa
- 13:45 Goodness of Fit in LabVIEW, Tibor Dobján and Eva Osztenyine Kraucz
- 14:00 **Coffee break (room 205)**
- 14:45 ROI analysis of implementing UV-C, bioxygen and plasma ion decontamination technologies to improve logistic process efficiency, Ákos Tóth and Tibor Ferenczy
- 15:00 Investigation of the wrinkling characteristic using deformation maps, Richárd Borbély, Martin László Köllös and Gábor József Béres
- 15:15 The Laboratory Facility for the Research of Forced Convection of Nanofluids - Validation of Hydraulic Parameters, S. Lalos, M. Bukurov, M. Vranes, S. Papovic, D. Knezevic and S. Bikic
- 16:00 **CLOSING CEREMONY (room 101)**

Section 4: KNOWLEDGE TRANSFER

September 22, 2022 (Faculty, room 102, posters in 205)

Moderator: Ivana Hanzec Marković

- 13:00 Enhancing Learning Outcomes in STEM E-Assessments in Higher Education by Didactic Adjustments, Oliver Mülken, Frank Pude, Lars Friedhoff and Julia Rausenberger
- 13:15 History of Teacher training in Slavonski Brod, Josip Jagodar and Ivan Stipičić
- 13:30 Teacher education as a predictor of their professional growth, Ana Miroslavljević
- 13:45 The quality of the preschool study program from the perspective of students, Zrinka Šimunović and Višnja Vekić-Kljaić
- 14:00 **Coffee break (room 205)**
- 14:45 Quality and eating habits of student population, Andreja Katolik Kovačević, Tomislav Mišić and Jasna Vujčić
- 15:00 The effect of flipped learning method on the level of motor knowledge acquisition in primary school, Tihomir Vidranski, Ivan Vrbik and Petar Otković
- 15:15 The occurrence of kinesiphobia in the rehabilitation of locomotor system injuries, Toni Crljenko, Stjepan Jelica, Marko Kunac and Tomislav Kokić
- 15:30 Knowledge management and digital transformation, Kristian Schuster, Vlatka Lemić and Vito Schuster
- 16:00 **CLOSING CEREMONY (room 101)**

10th INTERNATIONAL SCIENTIFIC AND EXPERT CONFERENCE TEAM 2022

Slavonski Brod, CROATIA

21st - 22nd of September 2022

Programme

OPENING CEREMONY

September 21, 2022 (School of Music building)

- 09:00 Opening speech

PLENARY SECTION

September 21, 2022 (School of Music building)

Moderator: Darko Damjanović

- 09:30 Studies and research in Flanders, Krishnan Coenen
- 10:00 Risk Evaluation Methods for Preliminary Risk Analysis of Li-ion Battery Tests, Csaba Johanyák
- 10:30 Water droplet as a tool, Sergej Hloch
- 11:00 Innovation parc GEEL: geothermal heating and cooling, Paul De Schepper
- 11:30 **Coffee break (room 205 at Faculty)**

Section 1: PRODUCTION ENGINEERING

September 21, 2022 (Faculty, room 101, posters in 205)

Moderator: Nikolina Berić, Tomislav Šolić

- 13:00 Surface roughness testing on 3D printed specimens, Goran Pačarek, Josip Stojšić, Ivan Vidaković and Goran Rozing
- 13:15 Simulation of First Layer Adhesion Errors in 3D printing, Ivor Šantak, Miroslav Duspara, Josip Cumin, Božidar Kovačević, Leon Maglič and Antun Stoić
- 13:30 Application of metal coatings on additive produced polymeric parts, Josip Groš, Pero Raos and Josip Stojšić
- 13:45 Structural Analysis of AISI 316LSi Multilayer Joint Made by Wire Arc Additive Manufacturing, Milan Marônek, Katarína Bártová, Jozef Bárta, Ján Urmínský and Filip Šugra
- 14:00 **Coffee break (room 205)**
- 14:45 Evaluation of the arc welding power source regimes with regard to additive manufacturing, Milan Marônek, Katarína Bártová, Jozef Bárta, Jan Urmínský and Filip Šugra
- 15:00 Impact of injection point in tool design, on costs of production injection tools, Anel Maslo, Amir Ćoralić, Adisa Vučina and Mersida Manjgo



- 15:15 Control of the surface roughness parameters of painted aluminium sheets by femtosecond laser surface modification, Zsolt Könyves and Miklós Berczeli
- 15:30 Capability of round testing measurements for wrinkling monitoring of thin sheets, Roland Sándor and Gábor J. Béres
- 16:00 **Tourist sightseeing of the Slavonski Brod**
- 18:30 **Dinner (transportation by bus)**

Section 2: BIOTECHNOLOGY IN AGRICULTURAL ENVIRONMENT

September 21, 2022 (Faculty, room 102, posters in 205)

Moderator: Mihaela Blažinkov, Teuta Benković - Lačić

- 13:00 Analysis of consumer opinions and habits related to apple consumption, Teuta Benković-Lačić, Barbara Čuljak, Robert Benković, Slavica Antunović and Krunoslav Mirosavljević
- 13:15 Effect of substrates on growth and development of Zinnia (Zinnia sp.), Božica Japundžić-Palenkić, Ivan Biondić, Robert Benković, Nataša Romanjek Fajdetic and Monika Marković
- 13:30 The influence of turbulent environmental factors on the supply chain of agricultural food products, Ljiljana Božić-Ostojčić, Željka Mesić, Nataša Romanjek Fajdetic, Mihaela Blažinkov, Jasna Vujčić, Slavica Antunović and Branimir Vujčić
- 13:45 Cultivation of common and flower sage in different growing substrate, Mihaela Blažinkov, Marija Milanović, Vehid Ibraković, Nataša Romanjek Fajdetic and Ljiljana Božić-Ostojčić
- 14:00 **Coffee break (room 205)**
- 14:45 Problems of organic agricultural products placements, Nataša Romanjek Fajdetic, Ljiljana Božić-Ostojčić, Božica Japundžić-Palenkić, Mihaela Blažinkov, Melita Grgić, Jasna Vujčić and Branimir Vujčić
- 15:00 The farmers knowledge about legal regulations of plant protection in organic agriculture, Slavica Antunović, Ozana Živković, Edita Štefanić, Sanda Rašić, Mirjana Martić, Ljiljana Božić-Ostojčić and Teuta Benković-Lačić
- 15:15 Climate adaptation and landscape architecture in urban environment, Edit Hoyk and András Palkovics
- 15:30 Pollen concentration of invasive tree of heaven (Ailanthus altissima) in Hungary, V.J. Vojnich, A. Ferencz, A. Szarvas, L. Makra, E. Polos, T. Toth, K. Tempfli, O. Udvardy, D. Kajtor-Apatini and D. Magyar
- 16:00 **Tourist sightseeing of the Slavonski Brod**
- 18:30 **Dinner (transportation by bus)**

Section 1: PRODUCTION ENGINEERING

September 22, 2022 (Faculty, room 101, posters in 205)

Moderators: Sara Radojičić, Jure Marijić

- 9:00 Seamless steel pipe integrity assessment based on SINTAP procedure and numerical analysis, Amna Bajtarević-Jeleč, Mersida Manjgo, Nedeljko Vukojević, Fuad Hadžikadunić and Josip Kačmarčik
- 9:15 Finite Element Simulation of Face Milling During Milling of Nickel-Based Superalloys, Gábor Kónya, Eszter Kókai and Zsolt Ferenc Kovács
- 9:30 Dynamic load of the knee joint and gait analysis, Hana Ilijazović, Dražan Kozak and Mario Kasović
- 9:45 Heat treatment of a stamp for marking metal products, Slavica Kladarić, Krunoslav Čuljak and Ivica Kladarić
- 10:00 **Coffee break (room 205)**
- 10:45 Load Carrying Capacity of the Multi-Beam Structure with Length Tolerances, Stanislav Kotšmíd and Pavel Beňo
- 11:00 Flow curve definition of thin sheet by uniaxial compression tests, Martin L Köllös, Richárd Borbély and Gábor J. Béres
- 11:15 Prediction of weld geometry of AlMg3 sheets using artificial neural networks with different input data sets, Živko Jurišić and Nikša Krnić
- 11:30 Investigation of edge rounding by magnetic assisted ball burnishing tool, Zsolt Kovács and János Kodacsy

Section 3: MARKET-ORIENTED MANAGEMENT

September 22, 2022 (Faculty, room 102, posters in 205)

Moderator: Maja Vretenar Cobović

- 9:00 Visitation Risk Management in Nature Park Medvednica, Marina Popijač, Sandra Wolf Kramarić, Martina Jurjević Varga and Silvija Zec
- 9:15 Analysis of innovativeness: Case study -Croatian, Hungarian and Slovak companies, Marko Martinović
- 9:30 Employee participation in education and training programs, Višnja Bartolović, Davor Poličić and Vesna Vučemilović
- 9:45 Student satisfaction with the digitalization of teaching in higher education, Sanja Knežević Kušljčić
- 10:00 **Coffee break (room 205)**
- 10:45 State financial support to small and medium-sized enterprises in the Republic of Croatia during the COVID-19 pandemic, Maja Vretenar Cobović, Gordana Prebeg and Mirna Jerković
- 11:00 Communication in a business environment with special references to empathy, Anita Kulaš Mirosavljević, Marina Bogdanić and Marina Stanić Šulentić
- 11:15 The influence of direct foreign investments and innovations on the competitiveness in Croatia, Lena Sigurnjak, Iva Samardžić and Mijat Samardžić
- 11:30 Validation of segmentation spraying from UAV in Serbia, Arpad Pletikosić and Laslo Tarjan