

## SCHEDULE OF IN-TECH CONFERENCE 2017

**11. September 2017**

**Faculty of Mechanical Engineering – 3<sup>rd</sup> floor**

<b>17:00 - 19:00</b>	<b>EARLY REGISTRATION</b>
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**MAIN HALL, 12. September 2017 – 3<sup>rd</sup> floor, III/2**

<b>8:45 – 9:20</b>	<b>REGISTRATION WITH COFFEE</b>
<b>9:20 - 9:40</b>	<b>OPENING SPEECH</b>

<b>KEYNOTE LECTURES</b>		
9:50 – 10:20	Kazuhiro Ohkura, Shunichi Kataoka and Hanjun Jiang	Deep reinforcement learning for a robotic swarm solving cooperative transport
10:20 – 10:50	Dominika Gornik Bučar, Mavricij Olenik and Miran Merhar	The new generation of beech veneer based structural elements
<b>10:50 - 11:20</b>	<b>COFFEE BREAK</b>	

**HALL A, 12. September 2017 - 3<sup>rd</sup> floor**

11:20 - 11:40	Matjaz Milfelner, Marlene Schafler, Michael Spitzer and Martin Wifling	Smart oriented workplaces in tool production
11:40 - 12:00	Mario Šokac, Željko Santoši, Igor Budak, Zlatan Car and Đorđe Vukelić	Combination of contact and optical 3D digitizing methods for their application in reverse engineering
12:00 - 12:20	Saša Ranđelović, Mladimir Milutinovic, Saša Nikolić, Tomaž Pepelnjak and Dejan Movrin	Application of FEM for injection molding process design
12:20 - 12:40	Si Young Kwak	Maximum Stress Evaluation of Smooth Notched Plates under Tensile Load in Numerical Structural Analysis
12:40 - 13:00	Andrej Czan, Michal Sajgalik, Ondrej Babik, Tatiana Czanova and Jozef Holubjak	Monitoring of surface characteristics created by miniature machining of dental implants with bioactive surface treatments
<b>13:00 - 14:30</b>	<b>LUNCH – 3<sup>rd</sup> FLOOR</b>	
14:30 - 14:50	Dragan Kusić and Aleš Hančič	Improved experimental approach for optimizing the injection moulding process parameters
14:50 - 15:10	Jakub Svoboda, Kamil Hylák, Viktor Kreibich, Jan Kudláček and Petr Szélag	Comparison of chemical and mechanical pretreatments and their influence on the adhesion of organic coatings
15:10 - 15:30	Zuzana Tatíčková and Jakub Heller	Research and development of thermosensitive coating systems for safety purposes
15:30 - 15:50	Damjan Klobčar, Janez Tušek and Maja Lindič	3D printing of metal parts using WAAM technology



15:50 - 16:10	Andrej Borić, Tomaž Pepelnjak and Zoran Jurković	Single Point Incremental Forming of Polymers – a review of process parameters
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**Venue: Hotel Raddison Blu Ljubljana**

19:30 – 23:00	<b>GALA DINNER</b> <b>DEPARTURE BY BUS AT 19:00 FROM AŠKERČEVA BUS STATION</b> <b>RETURN BY BUS AT 23:00 FROM RADDISON BLU HOTEL</b>
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**HALL B, 12. September 2017**

11:20 - 11:40	Almira Softic and Hazim Basić	Metrology infrastructure of Bosnia and Herzegovina in the context of European integration
11:40 - 12:00	Stefan Holtzhausen, Philipp Sembdner, Christine Schöne, Ralph Stelzer, Daniel Ellmann and Andreas Klar	Landmark detection on CT data for registration of drilling templates used in navigated dental implantation
12:00 - 12:20	Maysoon Abulkhair	I Can Help You : an Arabic Sign Language Interpreter for Hospital Reception
12:20 - 12:40	Dražko Tomić, Miroslav Puškarić and Zlatan Car	In silico testing of the toxicity for some anticancer herbal compounds
12:40 - 13:00	Jelena Grižić, Željko Večenaj, Hrvoje Kozmar and Branko Grisogono	Spatial characteristics of extreme bora events
13:00 - 14:30	<b>LUNCH – 3<sup>rd</sup> FLOOR</b>	
14:30 - 14:50	Sebastijan Blažević, Nikola Anđelić and Zlatan Car	Research of Unstable Behaviour of Iterative Path Planning Algorithm for Robot Manipulator
14:50 - 15:10	Nikola Anđelić, Marko Čanađija and Zlatan Car	Determination of Natural Vibrations of Simply Supported Single Layer Graphene Sheet using Non-Local Kirchhoff Plate Theory
15:10 - 15:30	Juraj Brenkus and Viera Stopjakova	Efficient AC/DC power conversion for highly integrated sensor nodes
15:30 - 15:50	Kristijan Frlan and Srđan Skok	Intelligent Solutions for Transmission Power Systems
15:50 - 16:10	Hazem Al Bermanei, Jari Böling and Göran Högnäs	Modeling and scheduling of production systems by using max-plus algebra

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### MAIN HALL, 13. September 2017

KEYNOTE LECTURES		
9:00 - 9:30	Marko Šimic and Niko Herakovič	Advanced Composite Spools Used as Alternative Approach to Reduce the Actuation Force in Pneumatic Valves
9:30 - 10:00	Nenad Filipovic, Velibor Isailovic, Zarko Milosevic, Dalibor Nikolic, Igor Saveljic, Milica Nikolic, Themis Exarchos, Dimitrios I Fotiadis, Oberdan Parodi, Bojana Andjelkovic-Cirkovic and Gualtiero Pelosi	Computer modeling of atherosclerosis in the human arteries
10:00 - 11:00	COFFEE BREAK & POSTER SESSION	

### HALL A, 13. September 2017

11:00 - 11:20	Philipp Sembdner, Moritz Nögel, Dirk Hofmann, Christine Schöne and Ralph Stelzer	Analysis and evaluation of simulation tools for additive manufactured parts
11:20 - 11:40	Tomaž Pepelnjak, Vasja Vidovič and Jan Kudlaček	Deep drawing and stretching analysis of hardened sheet metal steel
11:40 - 12:00	Anania Florea Dorel, Stoica Marilena and Pena Andra Elena	Research concerning automatically optimization of a milling process based on geometrical features of the part in CAD-CAM software
12:00 - 12:20	Pero Raos and Josip Stojisic	Effects of injection molding parameters on flexural properties of polypropylene molded part
12:20 - 12:40	Bernard Adjei-Frimpong and Laszlo Csurgai-Horvath	Rain Intensity Estimation Using Satellite Beacon Measurements
12:40 - 14:30	LUNCH – 3 <sup>rd</sup> FLOOR	
14:30 - 14:50	Marton Takacs and Barnabas Zoltan Balazs	Dynamical aspects of micro milling process
14:50 - 15:10	Barnabás Zoltán Balázs, Márton Takács and Tibor Szalay	Investigation of micro milled surface characteristics
15:10 - 15:30	David Muženič, Primož Potočnik, Edvard Govekar and Davorin Kramar	Optimisation of a laser assisted milling process by using response surface methodology and artificial neural networks
15:30 - 15:45	COFFEE BREAK & POSTER SESSION	

15:45 - 16:15	MAIN HALL CLOSING CEREMONY	
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### HALL B, 13. September 2017

11:00 - 11:20	Dejan Movrin, Dragiša Vilotić and Mladomir Milutinović	Material Formability at Upsettings by Conical and Flat Dies
11:20 – 11:40	Norbert Szaszak, Peter Bencs and Szilard Szabo	Influence of flat tape grid on the turbulence properties of airflow in a wind tunnel
11:40 - 12:00	Bela Fodor, László Kalmár and Peter Bencs	Hydraulic design of Kaplan water turbine blade three-dimensional body model
12:00 – 12:20	Michal Sajgalik, Andrej Czan, Pavol Martikan, Igor Danis and Mario Drbul	Development of Functional Properties by Sever Plastic Deformation of Titanium Biomaterials
12:20 - 12:40	Norbert Szaszák, Péter Bencs and Szilárd Szabó	Determining turbulent properties in grid generated turbulence based on hot-wire data
<b>12:40- 14:30</b>	<b>LUNCH – 3<sup>rd</sup> FLOOR</b>	
14:30 – 14:50	Biljana Matevska and Jasmina Chaloska	Model for safety increasing and risk assessment while working with hazardous chemicals
14:50 - 15:10	Yasuo Takahashi and Terumi Nakamura	Numerical study on the interfacial extension behaviors during solid-state pressure welding
15:10 - 15:30	David Grube Hansen, Arne Bilberg and Erik Skov Madsen	Flexible automated manufacturing for SMEs
<b>15:30 - 15:45</b>	<b>COFFEE BREAK &amp; POSTER SESSION</b>	
<b>15:45 – 16:15</b>	<b>MAIN HALL CLOSING CEREMONY</b>	