



Advanced Manufacturing Technologies 2018

July 1st, 2018

Conference Venue: "Lazur"-Sozopol

10⁰⁰ – 12⁰⁰ – Registration – ESRF "Lazur"

14⁰⁰ – 16⁰⁰ – Registration – ESRF "Lazur"

July 2nd, 2018

Conference Venue: ESRF "Lazur"-Sozopol

9⁰⁰ – 9³⁰ – The Opening Ceremony / Plenary and first session

**Chairman: – Dr. Sc. Eng. Aleksandar Makedonski
– Assoc. Prof. PhD Eng. Maria Peykova**

Welcome: Prof. PhD Eng. Ivan Kralov – Vice – Rector Research and Development, Technical University – Sofia, Bulgaria

**1. D. Przystacki, T. Chwalczuk, A. Bartkowska, P. Kieruj, M. Kuklinski
Poznan University of Technology, Poland
Laser assisted machining of hard to machine materials – an overview**

9³⁰ – 10⁴⁵ – First session

**2. T. Chwalczuk, D. Przystacki, P. Szablewski, P. Kieruj
Poznan University of Technology, Poland
Mechanism of chip formation of Inconel 718 in laser assisted turning**



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**3. M. Barczewski, D. Matykiewicz, O. Mysiukiewicz, A. Kloziński
Poznan University of Technology, Poland**

Synergistic effect of annealing and inorganic filler addition on thermomechanical properties of poly(lactic acid)

**4. T. Zhelyazov
Technical University - Sofia, Bulgaria**

Computer modeling of the state of the steel during laser cutting process

**5. A. Popescu, I. Turcin
Technical University of Cluj-Napoca, Romania**

Considerations regarding the influence of temperature injection moulding process of thermoplastic polymer

10⁴⁵ – 11⁰⁰ – Coffee break

11⁰⁰ – 13⁰⁰ – Second session

**Chairman: – Assoc. Prof. PhD Eng. Grigor Stambolov
– Assoc. Prof. PhD Eng. Damian Przystacki**

**1. H. Pechová
Czech Technical University in Prague, Czech Republic
Ordering systems – design of methodology. Aspect of CO₂ emissions in the transport of the material.**

**2. Z. Petrova, M. Peykova
Technical University - Sofia, Bulgaria
Zeros distribution for small oscillations of mathematical pendulum**

**3. M. Marinov, M. Peykova, L. Marinova
Technical University - Sofia, Bulgaria
Heming coding-decoding with generation and faults searching**



4. L. Marinova, M. Peykova, M. Mariniov
Technical University - Sofia, Bulgaria
Unilayer neural networks with linear chains. Direct signals

5. M. Peykova
Technical University - Sofia, Bulgaria
Fuzzy logic membership functions as control tools

6. S. Tsvetanov, D. Marinova
Technical University - Sofia, Bulgaria
K-shortest paths approach in multi objective problems

20⁰⁰ – OFFICIAL DINNER

July 3rd, 2018

Conference Venue: ESRF “Lazur”-Sozopol

9⁰⁰ – 11⁰⁰ – Poster session

Chairman: – Assoc. Prof. PhD Eng. Todor Zhelyazov
– Assoc. Prof. PhD Eng. Zornitza Petrova

1. A. Kroma, P. Popielarski, P. Szymanski
Poznan University of Technology, Poland
Application of selected 3D printing methods in foundry industry

2. P. Popielarski
Poznan University of Technology, Poland
The condition for development of the simulation codes in foundry industry



3. H. Ivanov
Graz University of Technology, Austria
Testbed for detailed verification of long-distance FSO systems in terms of various weather effects

4. S. Kirov, S. Todorov
Technical University - Varna, Bulgaria
Improving the treatability of welded layers resistant to abrasive wearing

19⁰⁰ – 20⁰⁰ – Sea excursion

