

WORKSHOP 2022

20.06. - 26.06.2022, Koszalin University of Technology
HONORARY PATRONAGE - Professor Danuta Zawadzka, Rector of Koszalin University of Technology

10th International Workshop on Surface Engineering

6th International Workshop on Applied and Sustainable Engineering

1st International Workshop on Trends in Electronics and Informatics

Monday 20.06.2022*

Chairman: prof. Krzysztof Rokosz

11:00 - Official opening - Introduction in the workshop theme

prof. Błażej Bałasz - Vice-Rector for Science, Koszalin University of Technology

prof. Krzysztof Rokosz - Dean of the Faculty of Electronics and Computer Science

prof. Dariusz Lipiński - Head of the Doctoral School, Koszalin University of Technology

11:15 - 11:45 New technologies for the preservation of regional cultural heritage - prof. Krzysztof Wasilewski, Faculty of Humanities, Koszalin University of Technology

11:45 - 13:00 Meeting of university representatives on the possibilities of developing scientific cooperation:

- prof. Shaban Buza, University of Prishtina Hasan Prishtina, Kosovo
- Davit Japaridze, PhD, Georgian Technical University, Gorgia
- Lia Rukhadze, PhD, Georgian Technical University, Gorgia
- Nino Zhizhilashvili, PhD, Georgian Technical University, Gorgia
- Ondrej Takác, PhD, J. Selye University in Komarno, Slovakia
- prof. Milan Kadnar, SPU Nitra, Slovakia
- František Tóth, PhD, SPU Nitra, Slovakia
- prof. Valíček Jan, Institute of Technology and Business in Ceske Budejovice, Czech Republik
- Marta Harnicárová, PhD, Institute of Technology and Business in Ceske Budejovice, Czech Republik
- prof. Gregor Mori, Montanuniversität Leoben, Austria

13:00 - 14:30 - My experience with CEEPUS and Erasmus+. Exchange of experiences in the implementation of the CEEPUS and Erasmus + programs

Tuesday 21.06.2022*

Chairman: Aneta Hapka, PhD; Katarzyna Jagodzińska, PhD

10:00 - 10:45 - KEYNOTE SPEAKER prof. Gregor Mori: Actual Corrosion Research on the Example of Three Industrial Sectors: Electronics, Steel Industry, Oil & Gas Industry, Montanuniversität Leoben, Austria

10:45-11:15 prof. Shaban Buza: Hybrid methodology of teaching and learning of engineering design in pandemic period - case study, University of Prishtina, Prishtina, Kosovo

11:15-11:45 David Japaridze, PhD: Strategical Development Plan for Transport Logistics of Georgia, Georgian Technical University, Georgia

11:45-12:15 Aneta Hapka, PhD: Wind energy - a historical view, Koszalin University of Technology, Faculty of Electronics and Computer Science, Poland

12:15-12:45 Katarzyna Jagodzińska, PhD: Self-structuring antennas, Koszalin University of Technology, Faculty of Electronics and Computer Science, Poland

Consultation time with experts. Laboratory Works.

17:00 WELCOME PARTY with Bowling & Billiard



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Wednesday 22.06.2022*

9:00-13:00 Lab Excursions and Laboratory Works. Consultation time with experts.

13:00-15:00 Georgian Day - meeting with Georgian Culture and Tradition (KA-107 under Erasmus+)

17:00 - GALA DINNER

Thursday 23.06.2022***

Chairman: prof. Tomasz Rydzkowski

Online conference with the participation of PhD students and early-stage researchers (agenda on the last page)

Friday 24.06.2022*

Chairman: Marcin Walczak, PhD; Łukasz Chrobak, PhD

10:00 - 10:30 - Takác Ondrej, PhD: Image Processing in the technical systems, J. Selye University in Komarno, Slovakia

10:30 - 11:00 - prof. Milan Kadnar: Advancements in Wind Turbine Technology: Improving Efficiency and Reducing Costs, Slovak University of Agriculture in Nitra, Slovakia

11:00 - 11:30 - František Tóth, PhD: Possibilities of using small biogas stations in agriculture, Slovak University of Agriculture in Nitra, Slovakia

11:30 - 12:00 - Marta Harnicárová, PhD: Selective Laser Melting of PA 2200 for Hip Implant Applications: Finite Element Analysis, Process Optimization, and Morphological and Mechanical Characterization, Institute of Technology and Business in Ceske Budejovice, Czech Republic

12:00 - 12:30 - prof. Jan Valíček: Quantifying the mechanical properties of materials and the process of elastic-plastic deformation under external stress on the material created by AWJ, Institute of Technology and Business in Ceske Budejovice, Czech Republic

12:30 - 13:00 - Nino Zhizhilashvili, PhD: Neutral Networks in Mechanical Engineering, Georgian Technical University, Georgia

13:00 - 13:30 - Lia Rukhadze, PhD: Management in Companies of Machine Construction, Georgian Technical University, Georgia

Consultation time with experts. Laboratory Works.

SUMMARY MEETING. CLOSING OF THE WORKSHOP.



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Friday 24.06.2022**

Chairman: Monika Sterczyńska, Marek Jakubowski

10:00 - 10:30 - Katarzyna Tandecka, Applications and effectiveness of innovative abrasive films

10:30 - 11:00 - Joanna Piepiórka-Stepuk, Sylwia Mierzejewska, Monika Sterczyńska, Marek Jakubowski, Andrzej Marczuk, Dariusz Andrejko, Paweł Sobczak, Analysis and modelling of the regeneration process of chemical solutions after brewing equipment cleaning in a Cleaning in Place system based on changes in turbidity

11:00 - 11:30 - Joanna Piepiórka-Stepuk, Iwona Wojtasik-Kalinowska, Sylwia Mierzejewska, Monika Sterczyńska, Marek Jakubowski, Effects of thermal treatment on bioactive compounds content and color parameters of selected varieties of pumpkins

11:30 - 12:00 - Sylwia Mierzejewska, Joanna Piepiórka-Stepuk, Jarosław Diakun, Aldona Bać, Adam Kopeć, Modification of the vacuum-steam thawing method of meat by using the initial stage of sublimation dehydration

12:00 - 12:30 - Marta Stachnik, Monika Sterczyńska, Anna Ptaszek, Joanna Piepiórka-Stepuk, Marek Jakubowski, Rheological Properties of Industrial Hot Tub

WORKSHOP 2022 takes place in Koszalin University of Technology:

*Council room of the Faculty of Electronics and Computer Science - 22A, 2 Śniadeckich Str., Koszalin

**Faculty of Mechanical Engineering, 15-17 Raclawicka Str., Koszalin

***ZOOM link: <https://zoom.us/j/99433190206?pwd=RDkraXNNZXl4NnI4MTUva0VzcUZ6QT09>



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Thursday 23.06.2022

ONLINE

Chairman: prof. Tomasz Rydzkowski

10:00 - 10:30 - KEYNOTE SPEAKER Robert Tomkowski, PhD, What is a functional surface? Importance of surface texture measurement and characterization, KTH Royal Institute of Technology, Sweden

10:30 - 10:45 - Karolina Formela, PhD student, Thermal and visualization studies of the condensation process of refrigerants in mini-channels, Koszalin University of Technology, Doctoral School, Poland

10:45 - 11:00 - Sichao Liu, PhD, Multimodal Human-Robot Collaboration in HRC Assembly, KTH Royal Institute of Technology, Sweden

11:00 - 11:15 - Piotr Zmuda-Trzebiatowski, PhD student, Influence of metal powder addition on PET-G material properties in FDM technology, Koszalin University of Technology, Doctoral School, Poland

11:15 - 11:30 - Xiaoyu Zhao, PhD, Additive manufacturing of Ni-based superalloys- an analysis of parameter and strategy driven properties in Electron Beam Melting process, KTH Royal Institute of Technology, Sweden

11:30 - 11:45 - Paweł Roszyk, PhD student, Creation of regular macroasperities on cylindrical parts from titanium alloys in the surface plastic deformation process, Koszalin University of Technology, Doctoral School, Poland

11:45 - 12:00 - Katarzyna Kośka, PhD student, Modeling and Numerical analysis of DC01 steel fine blanking process, Koszalin University of Technology, Doctoral School, Poland

12:00 - 12:15 - Paulina Stałowska, PhD student, Terrestrial laser scanning technology in wind turbine blades technical condition assessment, Koszalin University of Technology, Doctoral School, Poland

12:15 - 12:30 - Mateusz Miksza, PhD student, Numerical analysis of air bending process of DC01 steel using Barlat's anisotropy model and industrial tool geometry, Koszalin University of Technology, Doctoral School, Poland

12:45 - 13:00 - Anna Czajkowska, PhD student, Determination of recycling efficiency on materials obtained from end-of-life wind turbine propellers, Koszalin University of Technology, Doctoral School, Poland

13:00 - 13:15 - Dorota Laskowska, PhD student, Analysis of additively manufactured spatial structures in the context of biomedical applications, Koszalin University of Technology, Doctoral School, Poland

13:15 - 13:30 Eryk Szwarc, PhD: Robust competence framework planning system, Koszalin University of Technology, Faculty of Electronics and Computer Science, Poland

ZOOM link: <https://zoom.us/j/99433190206?pwd=RDkraXNNZXYrNnl4MTUva0VzcUZ6QT09>



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