



SUNDAY / NIEDZIELA, 08.10

18.00 – 19.00	REGISTRATION OF PARTICIPANTS / REJESTRACJA UCZESTNIKÓW
20.00	DINNER / KOLACJA

MONDAY / PONIEDZIAŁEK, 09.10

7.30 – 8.30	BREAKFAST / ŚNIADANIE (HOTEL)
9.00 – 9.30	OPENING SESSION / OTWARCIE KONFERENCJI
9.30 – 12.30	1 ST PLENARY SESSION / I SESJA PLENARNA
10.30 – 11.00	COFFEE BREAK / PRZERWA KAWOWA
13.00 – 14.30	LUNCH / OBIAD
15.00 – 17.30	POSTER SESSION IN MŁYNY ROUTERA / SESJA PLAKATOWA W MŁYNACH ROTHERA
17.30 – 19.00	VISITING THE HYDROTECHNICAL MONUMENTS OF THE OLD TOWN WITH A GUIDE / ZWIEDZANIE MIASTA Z PRZEWODNIKIEM / ZWIEDZANIE ZABYTKÓW HYDROTECHNIKI STAREGO MIASTA Z PRZEWODNIKIEM
20.00	CELEBRATING DINNER / UROCZYSTA KOLACJA

1ST PLENARY SESSION / I SESJA PLENARNA

Chairman / Prowadzący: **Tomasz Lipiński, Norbert Radek**

RECENT DEVELOPMENTS IN DRY ELECTRO DISCHARGE MACHINING, Agnieszka Żyra, Sebastian Skoczypiec

SELECTED ASPECTS OF APPLICATION OF OZONE BASED ELECTROLYTE IN ELECTROCHEMICAL MACHINING, Dominik Wysztyński

STUDY ON ELECTROCHEMICAL MICRO-TURNING PROCESS, Marcin Grabowski, Sebastian Skoczypiec, Adam Ruszaj, Karolina Furyk-Grabowska

INFLUENCE OF THE TYPE OF GRAPHITE ELECTRODE ON THE EDM PROCESS, Rafał Nowicki, Rafał Świercz, Adrian Kopytowski, Michał Marczak

IMPORTANCE OF INDUSTRY 4.0 TECHNOLOGIES FOR DEVELOPMENT OF ELECTRICAL DISCHARGE MACHINING, Sebastian Skoczypiec, Waldemar Małopolski

THE SUPERFICIAL LAYER OF PARTS ALLOYED BY ELECTRO-DISCHARGE METHODS, Sławomir Spadło, Krzysztof Łakomicz, Dominik Dudek



GAS AS A MEDIUM IN ELECTRO-EROSION TREATMENT, Tadeusz Zaborowski

APPLIANCE OF TUNGSTEN HEAVY ALLOYS FOR EDM TOOL ELECTRODES, Zbigniew Gulbinowicz, Dorota Oniszczyk-Świercz, Olgierd Gorocho, Paweł Skoczylas

GRINDING WITH MULTIGRANULAR WHEEL, Adrian Kopytowski, Rafał Świercz, Rafał Nowicki, Dorota Oniszczyk Świercz

COMPARATIVE INVESTIGATIONS OF THE ABRASIVE BLASTING OF CAST STEEL G20MN5 USING DIFFERENT BLAST MEDIA, Dominik Dudek, Sławomir Spadło, Kinga Pawłowska, Krzysztof Łakomic

POSTER SESSION / SESJA PLAKATOWA

STUDY OF ELECTROCHEMICAL DRESSING AND ELECTRODISCHARGE PROFILING OF SUPERHARD GRINDING WHEELS, Andrzej Gołąbczak, Marcin Gołąbczak, Jerzy Kozak

A COMPARISON OF THE GLOW DISCHARGE CHARACTERISTICS OF PLANAR AND CYLINDRICAL MAGNETRONS OPERATING IN PULSED DC MODES, Anna W. Oniszczyk, Wojciech Trzewiczynski, Wojciech Gajewski, Marek Betiuk, Aleksandra Mirońska, Piotr Domanowski

CHARACTERIZATION OF DIRECTIONALLY SOLIDIFIED FE – 4.25% C EUTECTIC ALLOY, Małgorzata Trepczyńska - Łent

EVALUATION OF THE STRUCTURAL AND MECHANICAL QUALITY OF NITRIDED LAYERS ON STRUCTURAL STEELS WITH THE USE OF PRECISE METALLOGRAPHIC SPHERICAL MICROSECTION IN THE AREA OF THE HRC INDENTATION TRACE, Marek Betiuk, Piotr Domanowski, Sławomir Bujnowski, Aleksandra Mirońska, Weronika Goluch

INFLUENCE OF ELECTRICAL DISCHARGE MACHINING OF THE MOLDING CAVITY ON THE SURFACE CONDITION OF FILLED POLYMER MOLDINGS, Marek Bieliński, Piotr Czyżewski, Bartosz Nowinka, Joanna Chrapkowska

APPLICATION OF SILVER NANOPARTICLES IN PAINT DISPERSION SYSTEM, Anna Zalewska, Ireneusz Grubecki

INFLUENCE OF THE EDM PROCESS PARAMETERS ON THE SURFACE ROUGHNESS OF THE ELEMENTS MADE OF CAST STEEL L35GSM, Dominik Dudek, Sławomir Spadło, Kinga Pawłowska, Krzysztof Łakomic

OPTIMAL FEED TEMPERATURE FOR AN IMMOBILIZED ENZYME FIXED-BED REACTOR: A CASE STUDY ON HYDROLYSIS OF SUCROSE BY INVERTASE, Ireneusz Grubecki, Anna Zalewska

INVESTIGATIONS OF CUTTING ABILITY ASSESSMENT OF SUPERHARD GRINDING WHEELS, Marcin Gołąbczak, Andrzej Gołąbczak, Michał Styp-Rekowski

STUDY OF THE EFFECT OF EDM PROCESSING PARAMETERS ON THE SURFACE CONDITION OF POLYMER MOLDINGS, Piotr Czyżewski, Mateusz Rojewski, Dawid Marciniak, Dariusz Sykutera



INFLUENCE OF FORMING CAVITY SURFACE TREATMENT PARAMETERS ON LASER MARKING EFFECTS, Piotr Czyżewski, Mateusz Rojewski, Piotr Szewczykowski, Bartosz Nowinka, Karolina Detmer

THE METHOD OF SELECTIVE ENHANCEMENT OF OFFSET PRINTING USING INTERCHANGEABLE ELEMENTS, Radosław Owsiański, Piotr Domanowski, Tomasz Paczkowski, Jarosław Zdrojewski

THE ACCURACY OF OFFSET PRINTING USING A MATRIX WITH INTERCHANGEABLE ELEMENTS, Radosław Owsiański, Tomasz Paczkowski, Piotr Domanowski, Jarosław Zdrojewski

GFRP COMPOSITE DRILLING IN THE ASPECT OF PHENOMENA ACCOMPANYING THE PROCESS, Robert Polasik

EXAMINATION OF SUPPLY CONDITIONS FOR THE EFFECTS OF ELECTRICAL DISCHARGES IN EDM MACHINING AND ALLOYING PROCESS, Sławomir Spadło, Krzysztof Łakomicz, Joanna Duś-Spadło, Dominik Dudek

THE SUPERFICIAL LAYER OF PARTS MACHINED BY ABRASIVE WATER JET MACHINING (AWJM), Sławomir Spadło, Libor Hlavac, Irena M. Hlavacova, Adam Štefek, Lucie Gembalová

SELECTED BIO-INSPIRED ALGORITHMS IN THE OPTIMISATION THE ABRASIVE WATER JET CUTTING PROCES, Stanisław Rawicki, Jerzy Podhajecki

SELECTED SURFACE ROUGHNESS PARAMETERS ELEMENTS MADE BY MILLING AND ELECTROMACHINING COMPARISON, Tomasz Paczkowski, Robert Polasik

NANOSTRUCTURE FORMATION DURING ELECTROSPARK ALLOYING, Oksana P. Gaponova, Viacheslav B. Tarel'nyk, Bogdan Antoszewski, Nataliia V. Tarel'nyk

ANALYSIS OF ELECTRO-SPARK ALLOYING METHODS USING ONE-COMPONENT SPECIAL TECHNOLOGICAL ENVIRONMENTS, Viacheslav B. Tarel'nyk, Oksana P. Gaponova, Nataliia V. Tarel'nyk, Czesław Kundera, Andriy V. Zahorulko



TUESDAY / WTOREK, 10.10

7.30 – 8.30	BREAKFAST / ŚNIADANIE (HOTEL)
10.00 – 12.00	INDUSTRIAL SESSION / SESJA PRZEMYSŁOWA (COLLECTION AT 09.30 / ZBIÓRKA NA 09.30)
12.30 – 14.00	VISITING MŁYNY ROUTERA / ZWIEDZANIE MŁYNÓW ROTHERA
14.30 – 15.30	LUNCH / OBIAD
16.00 – 17.00	2 ND PLENARY SESSION / II SESJA PLENARNA
17.00 – 17.15	COFFEE BREAK / PRZERWA KAWOWA
17.15 – 18.45	3 RD PLENARY SESSION / III SESJA PLENARNA
18.45 – 19.45	SCIENTIFIC COMMITTEE MEETING / ZEBRANIE KOMITETU NAUKOWEGO
18.45 – 20.00	BREAK / PRZERWA
20.00	DINNER / KOLACJA

2ND PLENARY SESSION / II SESJA PLENARNA

Chairman / Prowadzący: **Marek Macko**

BIONIC INSPIRATIONS IN DESIGNING PROCESSES OF ADDITIVE MANUFACTURING, Adam Ruszaj

INFLUENCE OF REINFORCING ELEMENTS ON THE STRUCTURE, PROPERTIES AND DIMENSIONAL ACCURACY OF 3D PRINTING MODELS, Artur Kościuszko, Dawid Marciniak, Mateusz Rojewski, Natalia Konczal

THE INFLUENCE OF LUNAR REGOLITH SIMULANT SELECTED FUNCTIONAL PROPERTIES OF POLYMERIC MATERIALS USED IN FFF TECHNOLOGY, Damian Pietrusiak, Piotr Czyżewski, Dawid Marciniak, Mateusz Józefowicz, Marek Macko, Ciężela Jakub

OPTIMIZATION METHODS AND PROCEDURES FOR DMLM PARAMETERS DEVELOPMENT PROCESS WITH DIGITAL TOOLS ASSISTED EVALUATION OF THE ALLOY METALLOGRAPHY STRUCTURE. BASED ON THE PROJECT RPMA.01.02.00-14-B479/18 FROM REGIONALNY PROGRAM OPERACYJNY WOJEWÓDZTWA MAZOWIECKIEGO, Damian Rączkowski, Tomasz Pokoniewski, Michał Bujak, Łukasz Ocypta, Dorota Szcześniak, Sebastian Szurlej, Paweł Żuk



3RD PLENARY SESSION / III SESJA PLENARNA

Chairman / Prowadzący: **Sebastian Skoczypiec**

THE EFFECT OF OPERATING PARAMETERS OF SLM ON PRODUCT DIMENSIONAL DEVIATIONS,
Tomasz Zakrzewski, Jerzy Kozak

INFLUENCE OF DISCHARGE ENERGY ON SURFACE ROUGHNESS OF SLM PART AFTER WIRE
ELECTRICAL DISCHARGE FINISHING, Dorota Oniszcuk- Świercz, Rafał Świercz, Adrian Kopytowski,
Rafał Nowicki

INVESTIGATION OF ELEMENTS FILLED WITH RUBBER POWDER IN ADDITIVE MANUFACTURING
PROCESS, Kinga Majewska-Laks, Dawid Marciniak, Dariusz Sykutera

APPLICATION THE RECASTEST TESTING TECHNIQUE TO EVALUATE STRUCTURAL AND MECHANICAL
QUALITY OF NITRIDED LAYERS PRODUCED ON 20, 40 HM, STEELS USING THE RECALO2 TEST, Marek
Betiuk, Piotr Domanowski, Sławomir Bujnowski, Aleksandra Mirońska, Weronika Goluch

ASPECTS OF 3D PRINTING DMDS TECHNOLOGY, Marek Macko, Zbigniew Szczepański, Andrzej
Szczepańczyk, Paweł Cyprys, Adam Zabrowarny

STUDIES ON THE PRODUCTION OF LIGHTWEIGHT STRUCTURES IN THE FUSED FILAMENT
FABRICATION TECHNOLOGY, Piotr Czyżewski, Dawid Marciniak, Marek Bieliński, Yevhen Bezv

METAL ADDITIVE MANUFACTURING – SELECTED METHOD OF POSTPROCESSING TECHNOLOGY,
Rafał Świercz, Dorota Oniszcuk – Świercz

WEDNESDAY / ŚRODA, 11.10

7.30 – 8.30	BREAKFAST / ŚNIADANIE (HOTEL)
9.00 – 10.30	4 TH PLENARY SESSION / IV SESJA PLENARNA
10.30 – 10.45	BREAK / PRZERWA
10.45 – 12.30	5 TH PLENARY SESSION / V SESJA PLENARNA
12.30 – 13.00	CONFERENCE SUMMARY/ PODSUMOWANIE KONFERENCJI
13.30 – 15.00	LUNCH / OBIAD

4TH PLENARY SESSION / IV SESJA PLENARNA,

Chairman / Prowadzący: **Sławomir Spadło**

THE EFFECT OF LASER INFRARED RADIATION ON THE SURFACE MODIFICATION OF DLC COATINGS, Artur Kalinowski, Norbert Radek, Jacek Pietraszek, Piotr Sęk

MULTI-CRITERIA METHODS IN THE OPTIMIZATION OF THE ABRASIVE WATERJET CUTTING PROCESS, Aleksandra Radomska – Zalas

MULTIPLE CRITERIA OPTIMIZATION OF ABRASIVE WATER JET (AWJ) CUTTING USING TODIM APPROACH, Andrzej Perec

THE USING OF METAHEURISTIC OPTIMIZATION ALGORITHM IN ABRASIVE WATER JET MACHINING OF WHITE MARBLE, Elżbieta Kawecka

SELECTIVE LASER MELTING OF CP-TI BASED BIO-COMPATIBLE POWDER MIXTURES AND METAL MATRIX COMPOSITES, Grzegorz Skrabalak, Andrzej Stwora, Yulia Rumiantseva, Aleksandra Bętkowska and Karolina Chat-Wilk

INFLUENCE OF POST-PROCESSING ON SURFACE TEXTURE OF ADDITIVE MANUFACTURING MICRO-ELEMENTS, Joanna Radziejewska, Michał Marczak, Piotr Maj, Dominik Głowacki

5TH PLENARY SESSION / V SESJA PLENARNA,

Chairman / Prowadzący: **Rafał Świercz**

APPLICATION OF ARTIFICIAL INTELLIGENCE IN MAGNETIC-ABRASIVE MACHINING RESEARCH, Michał Marczak, Rafał Nowicki, Maciej Lato

ANALYSIS OF THE SURFACE GEOMETRIC STRUCTURE AFTER LASER CLEANING OF PAINT COATINGS, Norbert Radek, Artur Kalinowski, Jacek Pietraszek, Agata Dudek, Jacek Świdorski

EFFECT OF HIPIMS DISCHARGE IN METAL OXIDE NANOCOATINGS FOR RESISTIVE RANDOM-ACCESS MEMORY APPLICATION, Piotr Różański, Robert Mroczyński, Wojciech Gajewski



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EFFECT OF DIFFERENT COOLANT LUBRICANT SUPPLY METHODS ON SURFACE ROUGHNESS OF NC10 STEEL AFTER CONVENTIONAL AND AEDG GRINDING, Radosław Rosik, Robert Święcik

INFLUENCE OF WATER JET CUTTING PARAMETERS ON THE SURFACE QUALITY OF AISI 316L THICK PLATES, Tomasz Lipiński

ROLLING-CREW CONCURRENT VIBRATION PLATFORM – VIBRATION CHARACTERISTICS AND MOTION OF GRANULAR MATERIAL IN THE HORIZONTAL PLANE, Wojciech Poćwiardowski