



# P R O G R A M

# MMPE'22

13-14 June, Nieznanice

Monday, 13<sup>th</sup> June

<b>9:00 – 10:00</b>	<b>Registration and coffee</b> ( <i>Lobby of Nieznanice Palace</i> )
<b>10:05 – 10:10</b>	<b>Opening / Welcome</b> <i>Katarzyna Freus</i>
<b>Session A – Invited lectures</b> <i>Chair: Norbert Szczygiol , Małgorzata Klimek</i>	
<b>10:10 – 10:40</b>	<b>THE DIVERGENCE THEOREM FOR VECTOR VALUED FORMS</b> <i>Antoni Pierzchalski</i>
<b>10:40 – 11:10</b>	<b>COMPETING INTERACTIONS OF A PAIR OF MAGNETIC NANOPARTICLES IN AQUEOUS SOLUTIONS</b> <i>Wiktor Wolak, Andrzej Drzewiński, Maciej Marć, Mirosław R. Dudek</i>
<b>11:10 – 11:40</b>	<b>CATEGORICAL MODEL OF REFERENCE TYPE</b> <i>Valerie Novitzká, William Steingartner</i>
<b>11:40 – 12:10</b>	<b>Coffee break</b>
<b>Session B – Poster Session</b> <i>Chair: Antoni Pierzchalski, Bohdan Kopytko</i>	
<b>12:10 – 12:55</b>	<b>LOCALLY DEFINED OPERATORS ACTING <math>C^\infty(A)</math> INTO <math>C^0(A)</math></b> <i>Małgorzata Wróbel</i>
	<b>IMAGE INTERPRETATION IS BASED ON THE ANALYSIS OF OBJECTS IN THE SCENE</b> <i>Mariusz Kubanek, Łukasz Karbowski, Janusz Bobulski</i>
	<b>THE FUNDAMENTAL SOLUTION TO THE FRACTIONAL DUAL-PHASE-LAG HEAT CONDUCTION</b> <i>Urszula Siedlecka</i>
	<b>MULTICOMPONENT SYSTEMS UNDER SUBCRITICAL AND CRITICAL SUDDEN LOADINGS</b> <i>Tomasz Derda</i>

	<p><b>MATHEMATICAL MODELLING OF THERMAL AND ELECTRICAL PROCESSES DURING ELECTROSURGICAL RESECTION OF COLORECTAL POLYPS IN THE PROBLEMATIC CASE OF THE POLYP POSITION</b>  <i>Jarosław Siedlecki, Maciej K.Janik</i></p>
	<p><b>BLENDED LEARNING IN TEACHING MATHEMATICS AT THE POLYTECHNIC STUDIES</b>  <i>Edyta Pawlak-Kazior</i></p>
	<p><b>PODSTAWA PROGRAMOWA PRZEDMIOTU MATEMATYKA DLA CZTEROLETNIEGO LICEUM I PIĘCIOLETNIEGO TECHNIKUM</b>  <i>Jowita Rychlewska</i></p>
	<p><b>OGÓLNOPOLSKI SYSTEM MONITOROWANIA EKONOMICZNYCH LOSÓW ABSOLWENTÓW SZKÓŁ WYŻSZYCH</b>  <i>Wioletta Tuzikiewicz</i></p>
	<p><b>STATISTICAL TESTS IN MAPLE</b>  <i>Jolanta Borowska</i></p>
	<p><b>SELECTED ASPECTS OF THE TEACHING - LEARNING PROCESS</b>  <i>Sylwia Lara-Dziembek</i></p>
	<p><b>NAUCZANIE I WERYFIKACJA EFEKTÓW UCZENIA SIĘ W TRYBIE TRADYCYJNYM Z WYKORZYSTANIEM PLATFORMY E-LEARNINGOWEJ</b>  <i>Joanna Klekot</i></p>
	<p><b>AN APPROXIMATION OF LINEAR DIFFERENTIAL EQUATIONS BY THE GALERKIN METHOD</b>  <i>Dominika Kustal, Anna Nowak</i></p>
<b>13:00 – 14:00</b>	<b>Dinner</b>
<p><b>Session C</b>  <b>Chair: Valerie Novitzká, Andrzej Drzewiński</b></p>	
<b>14:10 – 14:30</b>	<p><b>VERIFICATION OF THE QUALITY OF PHOTOS UPLOADED TO THE INTERNET PORTAL</b>  <i>Janusz Bobulski, Sabina Szymoniak, Ferdynand Górski</i></p>
<b>14:30 – 14:50</b>	<p><b>APPROXIMATE DECONVOLUTION OF FILTERS INDUCED BY NUMERICAL SCHEMES FOR IMPROVED SUBFILTER STRESSES IN LARGE EDDY SIMULATION</b>  <i>Andrzej Bogusławski, Karol Wawrzak, Bernard J. Geurts</i></p>
<b>14:50 – 15:10</b>	<p><b>THE NONLOCAL CONJUGATION PROBLEM FOR BACKWARD KOLMOGOROV EQUATION</b>  <i>Bohdan Kopytko, Roman Shevchuk</i></p>
<b>15:10 – 15:40</b>	<b>Coffee break</b>
<b>18:00</b>	<b>Barbecue</b>

Tuesday, 14<sup>th</sup> June

<b>9:00 – 9:45</b>	<b>Breakfast</b>
<b>Session D</b> <i>Chair: Mariusz Kubanek, Andrzej Bogustawski</i>	
<b>10:00 – 10:30</b>	<b>DEVELOPMENT OF TECHNOLOGIES FOR THE EMERGENCY REDUCTION OF DUST CONCENTRATION IN POLLUTED AIR</b> <i>Jacek Leszczyński, Filip Jędrzejek, Dominik Gryboś, Janusz Zyśk</i>
<b>10:30 – 10:50</b>	<b>ON A CERTAIN EMBEDDING ASSIGNING YOUNG MEASURES TO FUNCTIONS</b> <i>Piotr Puchała</i>
<b>10:50 – 11:10</b>	<b>APPROXIMATE DECONVOLUTION METHOD OF FORCED HOMOGENEOUS ISOTROPIC TURBULENCE</b> <i>Lena Caban, Artur Tyliczszak, Bernard Geurts</i>
<b>11:10 – 11:30</b>	<b>NUMERICAL SIMULATIONS AS AN EFFECTIVE TOOL USED FOR ANALYSIS OF IMPACT OF THE LADLE SHROUD MODIFICATION ON A LIQUID STEEL FLOW THROUGH THE TUNDISH</b> <i>Suchan Hanna</i>
<b>11:30 – 12:00</b>	<b>Coffee break</b>
<b>Session E – Training</b> <i>Krzysztof Bednarek</i>	
<b>12:00 – 13:30</b>	<b>Asertywność w pracy edukacyjnej</b>
<b>13:30– 13:45</b>	<b>Conference closing</b> <i>Andrzej Grzybowski, Tomasz Błaszczyk</i>
<b>14:00</b>	<b>Dinner</b>