

18.06.2018 Monday

- 17.00 – 19.00 **Registration** (lobby of *Leśna Radość*)
19.00 – 22.00 **Welcome barbecue**
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19.06.2018 Tuesday

- 8.00 – 9.30 **Breakfast**
9.30 – 9.45 **Conference opening address** – *Jolanta Pozorska*

Session A

Chair: *Norbert Szczygiol, Małgorzata Klimek*

- 9.45 – 10.30 **Ewa Majchrzak, Bohdan Mochnacki:** APPLICATION OF NUMERICAL METHODS FOR SOLVING THE NON-FOURIER EQUATIONS. REVIEW OF OWN AND COLLABORATORS WORKS (*invited lecture*)
- 10.30 – 11.00 **Valerie Novitzká, William Steingartner, Mohamed Ali M. Eldojali:** THE ADVANTAGES OF LINEAR LOGIC IN COMPUTER SCIENCE (*invited lecture*)
- 11.00 – 11.15 **Zbigniew Pozorski, Szymon Wojciechowski:** THE INFLUENCE OF THE BOUNDARY CONDITIONS ON THE SHEAR STRESSES IN SANDWICH PANELS SUBJECTED TO TORSION
- 11.15 – 11.30 **Nadiya Gubareni:** MIXED MATRIX PROBLEMS AND THEIR APPLICATIONS
- 11.30 – 12.00 **Coffee break**

Poster Session B

Chair: *Stanisław Kukla, Grzegorz Biernat*

12.15 – 13.00

Tomasz Błaszczuk, Mariusz Ciesielski, Małgorzata Klimek: FRACTIONAL STURM-LIOUVILLE PROBLEM WITH DIFFERENT TYPES OF BOUNDARY CONDITIONS – NUMERICAL APPROACH

Mariusz Kubanek: A NEW APPROACH TO SPEECH RECOGNITION USING CONVOLUTIONAL NEURAL NETWORKS

Maria Lupa, Małgorzata Wróbel: ABOUT SOME UNIFORMLY BOUNDED SUPERPOSITION OPERATORS

Ewa Ładyga, Marek Ładyga: METHODS OF MULTIDIMENSIONAL COMPARISON ANALYSIS IN ENTERPRISE MANAGEMENT

Grażyna Rygał: MATHEMATICAL THINKING AS AN INDISPENSABLE SKILL TO SOLVE BOTH EVERYDAY PROBLEMS AND PURELY MATHEMATICAL ISSUES

Krzysztof Sokół: THE CONTROL OF LOCAL AND GLOBAL INSTABILITY REGIONS OF THE SLENDER STRUCTURES

Ewa Węgrzyn–Skrzypczak, Tomasz Skrzypczak: COMPARISON OF THE ANALYTICAL AND NUMERICAL SOLUTIONS OF THE LAPLACE EQUATION

Jerzy Winczek: THE DETERMINATION OF STRESS-STRAIN RELATIONS FOR STEELS CONSIDERING THE INFLUENCE OF TEMPERATURE

Session C

Chair: *William Steingartner, Zbigniew Pozorski*

13.00 – 13.15 Bohdan Kopytko, Roman Shevchuk: ON ONE CLASS OF NONLOCAL PARABOLIC CONJUGATION PROBLEMS IN THE THEORY OF DIFFUSION PROCESSES WITH MEMBRANES

13.15 – 13.30 Grzegorz Biernat: POLYNOMIAL MAPPINGS WHICH HAVE TWO ZEROS AT INFINITY

13.30 – 13.45 Tomasz Starczewski: REMARKS ABOUT GEOMETRIC SCALE IN ANALYTIC HIERARCHY PROCESS

14.00 – 15.00 Dinner

Session D

I have a problem ...

Chair: *Andrzej Grzybowski*

15.30 – 16.00 Presentation of unsolved problems and open questions

15.00 – 18.00 Discussion

18.00 – 18.30 Session Summary

19.30 – 20.30 Supper

20.06.2018 Wednesday

8.00 – 9.30 Breakfast

Session E

Chair: *Valerie Novitzká, Mariusz Kubanek*

9.45 – 10.15 William Steingartner, Valerie Novitzká: NEW LEARNING TOOLS FOR TEACHING THE SEMANTICS OF PROGRAMMING LANGUAGES (*invited lecture*)

10.15 – 10.30 Piotr Puchała: CONVERGENCE OF THE SEQUENCES OF HOMOGENEOUS YOUNG MEASURES

10.30– 10.45 Sebastian Uzny, Łukasz Kutrowski: THE INFLUENCE OF MOUNTING RIGIDITY ON STABILITY AND STRENGTH OF CYLINDER BARRELS OF A TELESCOPIC HYDRAULIC CYLINDER

10.45– 11.00 Sebastian Uzny, Michał Osadnik: NONLINEAR COMPONENT OF FREE VIBRATION FREQUENCY OF PARTIALLY TENSIONED SYSTEM WITH CONSIDERATION OF ROTATIONAL STIFFNESS OF SUPPORT

11.15 – 11.45 Coffee break

Poster Session F

Chair: *Jerzy Winczek, Piotr Puchala*

12.00 – 12.45

Krzysztof Bekus: NUMERICAL ALGORITHMS FOR FRACTIONAL OPERATORS

Lena Caban, Joanna Kurek: CLASSIFICATION OF THE BRAVAIS LATTICE AND CRYSTALLINE STRUCTURES

Anita Ciekot: APPLICATION OF THE KRONECKER TENSOR PRODUCT FOR MODELLING THE DEPTH OF NITROGEN DIFFUSION PROCESS

Tomasz Derda: FIBER BUNDLE MODEL WITH FRÉCHET DISTRIBUTED BREAKING THRESHOLDS

Stanisław Kukla, Urszula Siedlecka: FRACTIONAL HEAT CONDUCTION IN A COMPOSITE CYLINDER

Yuriy Povstenko: FRACTIONAL HEAT CONDUCTION AND DIFFUSION EQUATIONS AND ASSOCIATED THEORIES OF THERMAL AND DIFFUSIVE STRESSES

Magdalena Woźniakowska: INVERTIBLE POLYNOMIAL MAPPINGS WHICH HAVE ONE ZERO AT INFINITY STABILITY

Izabela Zamorska: DIFFERENTIAL TRANSFORMATION METHOD FOR A CANTILEVER BEAM WITH DAMAGE

13.00 – 14.00 Dinner

Session G

New concepts of scientific career of new government regulations

Chair: *Andrzej Grzybowski*

14.00 – 18.00 Discussion

19.00 – 24.00 Conference banquet

21.06.2018 Thursday

8.00 – 9.30 Breakfast

Session H – Didactic Panel, part 1

Chair: *Bohdan Kopytko, Tomasz Błaszczuk*

9.30 – 9.45 Jowita Rychlewska: PRINCIPLES OF CLASSIFICATION OF SCIENTIFIC DISCIPLINES ACCORDING TO LAW 2.0 (LAW ON HIGHER EDUCATION AND SCIENCE), STATE ON JUNE 2018

9.45 – 10.00 Edyta Pawlak: THE REQUIREMENTS FOR GRANTING THE RIGHT TO CONDUCT STUDIES WITH A GENERAL ACADEMIC PROFILE IN THE CONTEXT OF THE HIGHER EDUCATION AND SCIENCE LAW (ACT 2.0)

10.00 – 10.15 Sylwia Lara - Dziembek: THE REQUIREMENTS FOR GRANTING THE RIGHT TO CONDUCT STUDIES WITH A PRACTICAL PROFILE IN THE CONTEXT OF THE HIGHER EDUCATION AND SCIENCE LAW (ACT 2.0)

10.15 – 10.30 Joanna Klekot: INTERDISCIPLINARY STUDIES ACCORDING TO LAW 2.0

10.30 – 10.45 Jolanta Borowska: PROFESSIONAL PRACTICES IN THE STUDY PROGRAM ACCORDING TO LAW 2.0. REGIONAL POSSIBILITIES OF PROFESSIONAL PRACTICES

11.00 – 11.30 Coffee break

Session I – Didactic Panel, part 2

Chair: *Bohdan Kopytko, Tomasz Błaszczuk*

11.45 – 12.30 Discussion

12.30 – 12.45 Conference closing – Andrzej Grzybowski

13.00 – 14.00 Dinner