

Tuesday, 4.09.2018

- 10:00 - 12:30 – Registration of participants
- 12:30 - 13:30 – Lunch
- 13:45 - 14:15 – Opening Ceremony (Ballroom)
- 14:15 - 15:45 – Invited Lectures
- 15:45 - 16:15 – Official photo and Coffee break
- 16:15 - 17:45 – Lectures – Sessions A1, A2, A3
- 18:15 - 19:45 – Sightseeing of Rydzyna Castle
- 19:45 - 20:45 – Dinner

Thursday, 6.09.2018

- 8:00 - 9:00 – Breakfast / Registration of participants
- 9:00 - 13:00 – Presentation of the historical and cultural achievements of the Wielkopolska Province
- 14:00 - 15:00 – Lunch
- 15:30 - 17:00 – Lectures – Sessions E1, E2, E3
- 19:00 - ... – Grill party

Wednesday, 5.09.2018

- 8:00 - 9:00 – Breakfast / Registration of participants
- 9:00 - 10:30 – Lectures – Sessions B1, B2, B3, B4
- 10:30 - 11:00 – Coffee break
- 11:00 - 12:30 – Lectures – Sessions C1, C2, C3, C4
- 13:00 - 14:00 – Lunch
- 14:30 - 16:00 – Lectures – Sessions D1, D2, D3, D4
- 16:30 - 18:00 – Meeting of Scientific Committee (The Knight's Hall)
- 19:00 - ... – Gala dinner

Friday, 7.09.2018

- 8:00 - 9:00 – Breakfast
- 9:00 - 10:30 – Lectures – Sessions F1, F2, F3
- 10:30 - 11:00 – Closing of the conference
- 11:00 - 12:30 – Lunch
- 12:30 - 14:00 – XXII Seminarium "Projektowanie Mechatroniczne" (XXII Seminar „Mechatronic Design”)



Invited Lectures: Tuesday, 04.09.2018, at 14:15 - 15:45Chairman: Prof. Ireneusz **Malujda**, Prof. Milan **Sága**

1. Prof. Stanisław **Legutko**
Additive techniques of manufacturing functional products from metal material
2. Prof. Robert **Zalewski**
Comparison of MR fluids and special granular structures
3. Prof. Michał **Bartyś**
Electro-pneumatic actuator – from idea to industry

Session A1: Tuesday, 04.09.2018, at 16:15 - 17:45Chairman: Prof. Milan **Žmindák**, PhD. Eng. Marcin **Kubiak**

1. Dominik **Wojtkowiak**, Krzysztof **Talaśka**
The influence of the piercing punch profile on the stress distribution on its cutting edge
2. Dominik **Wilczyński**, Dominik **Wojtkowiak**, Maciej **Berdychowski**, Jan **Górecki**, Krzysztof **Wałęsa**
Experimental and numerical tests of the compaction process of loose material in the form of sawdust
3. Milan **Vaško**, Vladislav **Baniari**, Marián **Handrik**, Alan **Vaško**, Lenka **Jakubovičová**, Peter **Kopas**
Comparison of FE analysis and experimentally obtained data for the identification of residual stresses in welded high-strength steels
4. Miroslav **Blatnický**, Ján **Dižo**, Mária **Blatnická**
Strength reanalysis and influence line equation of rack system drive force
5. Lukáš **Smetanka**, Pavol **Šťastniak**, Slavomír **Hrček**
Investigation of railway wheelset profile wear by using computer tool
6. Marek **Macko**, Zbigniew **Szczepański**, Dariusz **Mikołajewski**, Joanna **Nowak**, Emilia **Mikołajewska**, Jacek **Furtak**
Design and manufacture of artificial organs made of polymers



Session A2: Tuesday, 04.09.2018, at 16:15 - 17:45Chairman: Prof. Vladimír **Dekýš**, Assoc. Prof. Michał **Śledziński**

1. Łukasz **Warguła**, Piotr **Krawiec**, Konrad Jan **Waluś**
Innovative research method of the fuel injector that allows to evaluate the efficiency of wood chip drive control systems
2. Krzysztof **Tyszczyk**
Measurement and analysis of parameters of the precise grinding system
3. Tomáš **Lack**, Juraj **Gerlici**
Wheelset / rail geometric characteristics and contact forces assessment with regard to angle of attack
4. Rafał **Gołębski**, Piotr **Boral**
Globoid surface shaped with turning and envelope method
5. Michał **Kekez**
Application of selected computational intelligence methods to modeling of traffic intensity in thoroughfare

Session A3: Tuesday, 04.09.2018, at 16:15 - 17:45Chairman: Prof. Michał **Bartyś**, Prof. Mariana **Pajtášová**

1. Jan **Górecki**, Ireneusz **Malujda**, Dominik **Wojtkowiak**, Dominik **Wilczyński**
Influence of the shape of the piston pressure face on the limit value of compaction stress in the process of dry ice agglomeration
2. Mateusz **Kukła**, Ireneusz **Malujda**, Krzysztof **Talaśka**
Damping in magnetorheological elastomers subjected to compressive stress
3. Piotr **Sikora**
Tests of properties of semi-crystalline polymeric materials produced by 3D printing method
4. Krzysztof **Wałęsa**, Olga **Mysiukiewicz**, Michał **Pietrzak**, Jan **Górecki**, Dominik **Wilczyński**
Preliminary research of the thermomechanical properties of the round drive belts
5. Marcin **Nabrdalik**, Michał **Sobociński**
The finite element method in the analysis of the stress and strain distribution in polyethylene elements of hip and knee joints endoprotheses



Session B1: Wednesday, 05.09.2018, at 9:00 - 10:30Chairman: Prof. Alžbeta **Sapietová**, PhD. Eng. Jan **Górecki**

1. Krzysztof **Talaśka**, Dominik **Wojtkowiak**, Ireneusz **Malujda**, Mateusz **Kukla**, Krzysztof **Wałęsa**
Functional and construction indicator for the briquetting process of lignocellulosic materials
2. Dominik **Wilczyński**, Ireneusz **Malujda**, Jan **Górecki**, Grzegorz **Domek**
Experimental research on the process of cutting transport belts
3. Tomasz **Domański**
Correlation image system 3D Dantec as a modern system for measuring deformation
4. Maciej **Bodnicki**, Wojciech **Credo**, Leszek **Wawrzyniuk**, Karol **Bagiński**, Michał **Bartyś**
Measuring system for testing of the drive of the scanning mirror
5. Ladislav **Sátor**
Transient analysis of FGM plates bending under thermal loading: comparative study within classical and generalized thermoelasticity
6. Milan **Žmindák**, Pavol **Novák**, Leszek **Radziszewski**, Josef **Soukup**
Determination of the laminate strains using discrete damage mechanics

Session B2: Wednesday, 05.09.2018, at 9:00 - 10:30Chairman: Prof. Janusz **Mielniczuk**, Assoc. Prof. Milan **Vaško**

1. Jacek **Marcinkiewicz**, Jarosław **Selech**, Żaneta **Staszak**, Łukasz **Gierz**, Dariusz **Ulbrich**, Dawid **Romek**
DEM simulation research of selected sowing unit elements used in a mechanical seeding drill
2. Elżbieta **Gawrońska**, Robert **Dyja**, Bartłomiej **Będkowski**, Łukasz **Cyganik**
Modeling of heat flow using commercial and authorial software on the example of a permanent magnet motor
3. Pavol **Šťastniak**, Marián **Moravčík**, Lukáš **Smetanka**
Investigation of strength conditions of the new wagon prototype type Zans
4. Dominik **Wojtkowiak**, Krzysztof **Talaśka**, Ireneusz **Malujda**, Jan **Górecki**, Dominik **Wilczyński**
Modelling and static stability analyses of the hexa-quad bimorph walking robot
5. Maciej **Berdychowski**, Krzysztof **Talaśka**, Dominik **Wilczyński**
Evaluation of the possibility of using the Drucker-Prager-Cap model in simulations of the densification process of shredded natural materials
6. Peter **Šulka**
Comparison of analytical and numerical solution of bearing contact analysis



Session B3: Wednesday, 05.09.2018, at 9:00 - 10:30Chairman: Prof. Marek **Macko**, Prof. Kateryna **Kravchenko**

1. Petr **Hejma**, Iryna **Hren**, Jan **Sviantek**, Josef **Soukup**, Martin **Svoboda**
Camming design for test equipment
2. Konrad Jan **Waluś**, Jakub **Polasik**, Janusz **Mielniczuk**, Łukasz **Warguła**
Experimental tests of vehicle body acceleration at selected railway crossing
3. Andrzej **Bąkowski**
Assessment of variability of acoustical energy generated by traffic volume
4. Łukasz **Warguła**, Bartosz **Wieczorek**, Mateusz **Kukla**
The determination of the rolling resistance coefficient of objects equipped with the wheels and suspension system – results of pilot tests
5. Jarosław **Selech**, Dariusz **Ulbrich**, Konrad **Włodarczyk**, Żaneta **Staszak**, Jacek **Marcinkiewicz**, Dawid **Romek**, Bartosz **Baran**
A working design of a bulldozer blade as additional equipment of a compaction drum roller
6. Michał **Wilczyński**, Grzegorz **Domek**
Analysis of reinforcement of the tooth belts

Session B4: Wednesday, 05.09.2018, at 9:00 - 10:30Chairman: Prof. Marian **Dudziak**, Prof. Mariana **Pajtášová**

1. Damian **Frąckowiak**
Simulation study of the hydraulic transmitter – receiver system
2. Zbigniew **Kłós**
Introduction of environmental aspects in designing of machines
3. Piotr **Krawiec**, Łukasz **Warguła**, Konrad Jan **Waluś**, Jarosław **Adamiec**
Wear evaluation study of the multiple grooved pulleys with optical method
4. Andrzej **Lewandowski**, Marian **Dudziak**, Michał **Śledziński**
Analysis of the loss of vehicle motion stability in the conditions of steering control disturbance
5. Zdeněk **Poruba**, Pavel **Kučera**, Eva **Mazancová**, Dagmar **Ličková**
Damage evolution process of seamless steel pressure vessels with artificial flaws under hydrostatic burst test



Session C1: Wednesday, 05.09.2018, at 11:00 - 12:30Chairman: Prof. Ján **Vavro**, Assoc. Prof. Piotr **Krawiec**

1. Krzysztof **Talaśka**, Dominik **Wojtkowiak**, Ireneusz **Malujda**, Krzysztof **Wałęsa**
Testing of a force sensor used to measure the parameters of the briquetting process of lignocellulosic materials
2. Dominik **Wilczyński**, Ireneusz **Malujda**, Jan **Górecki**, Piotr **Jankowiak**
Research on the process of biomass compaction in the form of straw
3. Robert **Zalewski**, Piotr **Bartkowski**
Prototype of a controllable damper based on granular materials subjected to partial vacuum
4. Piotr **Bartkowski**, Robert **Zalewski**
Empirical determination of the mechanical properties of Vacuum Packed Particles
5. Jan **Górecki**, Ireneusz **Malujda**, Dominik **Wilczyński**
Influence of geometrical parameters of the forming channels in a multichannel die on the limit value of limit force in the process of dry ice agglomeration
6. Żaneta **Staszak**, Jacek **Marcinkiewicz**, Jarosław **Selech**, Dariusz **Ulbrich**, Dawid **Romek**
The laboratory stand for testing a liquid masses drying process

Session C2: Wednesday, 05.09.2018, at 11:00 - 12:30Chairman: Prof. Zbigniew **Kłos**, Prof. Tomáš **Lack**

1. Lenka **Jakubovičová**, Milan **Vaško**, Peter **Kopas**, Pavol **Novák**, Marián **Handrik**
Strength analysis of welded wheeled compactor construction for excavator
2. Leszek **Radziszewski**, Michał **Kekez**, Andrzej **Bąkowski**, Alžbeta **Sapietová**
Modeling of acoustic pressure variability at thoroughfare
3. Wojciech **Judt**, Jarosław **Bartoszewicz**
Analysis of a cross-flow influence for a turbulence progress in a initial segment of axisymmetric duct
4. Marek **Macko**, Adam **Mroziński**, Adam **Prentki**
Simulations CAE of wood pellet machine
5. Jozef **Harušinec**, Andrej **Suchánek**, Mária **Loulová**, Pavol **Kurčík**
Design of a prototype frame of an electrically driven three- wheel vehicle
6. Aleksandra **Fierek**, Ireneusz **Malujda**, Krzysztof **Talaśka**
Design of mechatronic unit for application of coats of adhesive



Session C3: Wednesday, 05.09.2018, at 11:00 - 12:30Chairman: Prof. Juraj **Gerlici**, Prof. Wiesława **Piekarska**

1. Andrzej **Kołodziej**, Marian **Dudziak**, Krzysztof **Talaśka**
The directions of the development of the methods for designing the geometric form of the mechanical structures
2. Marcin **Kubiak**
Prediction of microstructure composition in steel plate heated using high power Yb:YAG laser radiation
3. Marián **Handrik**, Filip **Dorčiak**, Milan **Sága**, Milan **Vaško**, Peter **Kopas**
Modification of the optimization model for simulation of large-diameter pipes bending
4. Piotr **Zbroja**, Ksawery **Szykiedans**, Wojciech **Credo**
Flexible grippers for industrial robots – comparison of features of low- cost 3D printed component
5. František **Bárnik**, Milan **Sága**, Alžbeta **Sapietová**, Milan **Vaško**, Marian **Handrik**
Mechanical properties of structures produced by 3D printing from composite materials
6. Krzysztof **Wałęsa**, Ireneusz **Malujda**, Jan **Górecki**, Dominik **Wilczyński**
The temperature distribution during heating in hot plate welding process

Session C4: Wednesday, 05.09.2018, at 11:00 - 12:30Chairman: Prof. Czesław **Kundera**, Prof. Milan **Sága**

1. Michał **Pietrzak**, Krzysztof **Wałęsa**, Jan **Górecki**, Dominik **Wilczyński**, Maciej **Berdychowski**, Ireneusz **Malujda**
Analysis of the friction (spin) welding – preliminary study
2. Oleksij **Fomin**, Juraj **Gerlici**, Alyona **Lovskaya**, Kateryna **Kravchenko**, Oleksii **Burlutski**, Vladimír **Hauser**
Peculiarities of the mathematical modelling of dynamic loading on containers in flat wagons transportation
3. Leszek **Sowa**, Tomasz **Skrzypczak**, Paweł **Kwiatoń**
The influence of the riser dimensions on the effectiveness of feeding solidifying cast elements
4. Krzysztof **Łukaszewicz**, Norbert **Niechoćko**
Dynamic simulation of a virtual prototype of a one-track vehicle in motion on uneven ground conditions
5. Robert **Dyja**, Elzbieta **Gawrońska**, Norbert **Sczygiol**
Stress analysis in solid-liquid parts of solidifying castings



Session D1: Wednesday, 05.09.2018, at 14:30 - 16:00Chairman: Prof. Josef **Soukup**, Prof. Robert **Zalewski**

1. Jarosław **Selech**, Dariusz **Ulbrich**, Konrad **Włodarczyk**, Żaneta **Staszak**, Jacek **Marcinkiewicz**, Dawid **Romek**, Patryk **Wietrzych**
Self-propelled inspection vehicle on omni wheels
2. Tomasz **Skrzypczak**, Ewa **Węgrzyn-Skrzypczak**, Leszek **Sowa**
Numerical model of solidification process of Fe-C alloy taking into account the phenomenon of shrinkage cavity formation
3. Wiesława **Piekarska**, Zbigniew **Saternus**, Milan **Sapieta**, Peter **Kopas**
The influence of joining technique on the deformation of laser welded T-joints
4. Marcin **Kukuryk**, Jerzy **Winczek**, Marek **Gucwa**
Analysis of deformation and microstructure evolution during the cogging process of waspaloy alloy
5. Milan **Sága**, Mária **Blatnická**, Ondrej **Štalmach**, Marian **Handrik**, Zuzana **Ságová**
Numerical study of the relation between chosen statistical parameters of input stresses and cumulative fatigue damage provided rainflow decomposition
6. Leszek **Sowa**, Tomasz **Skrzypczak**, Paweł **Kwiatoń**
Computer evaluation of the influence of liquid metal movements on defects formation in the casting

Session D2: Wednesday, 05.09.2018, at 14:30 - 16:00Chairman: Prof. Darina **Ondrušová**, Prof. Leszek **Radziszewski**

1. Michał **Bartyś**
Control issues of a fast piezoelectric driven positioner intended for deflection of a high power laser beam
2. Piotr **Boral**
The design of the CNC milling machine
3. Łukasz **Warguła**, Konrad Jan **Waluś**, Piotr **Krawiec**
The problems of measuring the temperature of the small engines (SI) on the example of a drive for non-road mobile machines
4. Piotr **Pasza**
Digital possibilities of reconstruction of machine parts
5. Piotr **Kordas**, Robert **Bęczkowski**, Marek **Gucwa**, Jerzy **Winczek**
Application of design of experiment to a FCAW process
6. Łukasz **Kubaszewski**, Mikołaj **Dąbrowski**, Krzysztof **Talaśka**, Dominik **Wilczyński**
New model of lumbar spine biomechanics with the use of simulation analysis



Session D3: Wednesday, 05.09.2018, at 14:30 - 16:00Chairman: Prof. Ireneusz **Malujda**, Prof. Ján **Vavro**

1. Vladimír **Hauser**, Juraj **Gerlici**, Kateryna **Kravchenko**, Tomáš **Lack**, Mária **Loulová**
Analysis of a tram car ride when passing point frog and when entering curve by specific rail geometry
2. Vladimír **Bulej**, Juraj **Uríček**, Manfred **Eberth**, Ján **Stanček**
Modelling and Simulation of Mechatronic Systems in Matlab / Simulink
3. Anna **Jaskot**, Bogdan **Posiadała**
Dynamics of the mobile platform with four wheel drive
4. Ján **Dižo**, Miroslav **Blatnický**, Pavol **Kurčík**
Analysis of driving properties of a three-wheeled vehicle with a newly designed steering system
5. Andrej **Suchánek**, Mária **Loulová**, Jozef **Harušinec**
Evaluation of passenger riding comfort of a rail vehicle by means dynamic simulations
6. Vladimír **Sakhno**, Juraj **Gerlici**, Viktor **Poliakov**, Alexandr **Kravchenko**, Oleg **Omelnitsky**, Tomáš **Lack**
Road train motion stability in BRT system

Session D4: Wednesday, 05.09.2018, at 14:30 - 16:00Chairman: Assoc. Prof. Jana **Petrů**, PhD. Eng. Ksawery **Szykiedans**

1. Bartłomiej **Pałasz**, Konrad Jan **Waluś**, Łukasz **Warguła**
The determination of the value of rolling resistance coefficient of a passenger's vehicle with the use of stationary method on a rolling road dyno
2. Bartłomiej **Pałasz**, Konrad Jan **Waluś**, Łukasz **Warguła**
The determination of the value of rolling resistance coefficient of a passenger's vehicle with the use of chosen road methods
3. Mariana **Pajtášová**, Darina **Ondrušová**, Zuzana **Mičicová**, Robert **Janik**, Ivan **Labaj**, Marcel **Kohutiar**, Beáta **Pecušová**, Katarína **Moricová**
Using of alternative fillers based on the waste and its effect on the rubber properties
4. Bartosz **Ciupek**, Jarosław **Bartoszewicz**
The influence of geometry of primary air channels in standard retort burners on dust emission
5. Marek **Raček**
Effect of wave propagation and transfer of a sensor on detected acoustic emission signal



Session E1: Thursday, 06.09.2012, at 15:30 - 17:00Chairman: Prof. Andrzej **Kołodziej**, Prof. Darina **Ondrušová**

1. Krzysztof **Talaśka**, Dominik **Wojtkowiak**, Ireneusz **Malujda**, Krzysztof **Wałęsa**
Testing of a torque sensor used to measure the parameters of the briquetting process of lignocellulosic materials
2. Vladimír **Dekýš**, Ondrej **Stalmach**, Josef **Soukup**, Alžbeta **Sapietová**, Lenka **Rychlikova**
Detection of composite damage by IR NDT using ultrasonic excitation
3. František **Klimenda**, Josef **Soukup**, Milan **Žmindák**, Blanka **Skočilasová**
Dissemination of shock waves in thin plates – comparison of elastic plate – Kirchhoff and Rayleigh models
4. Jana **Petrů**
Dependence of the cross section of the cut layer on the specific cutting resistance
5. Grzegorz **Domek**
Modelling of the pitch of the tooth belt

Session E2: Thursday, 06.09.2012, at 15:30 - 17:00Chairman: Prof. Marian **Dudziak**, Assoc. Prof. Milan **Vaško**

1. Bartosz **Wieczorek**, Łukasz **Warguła**
Problems of dynamometer construction for wheelchairs and simulation of push motion
2. Rafał **Kwiatkowski**
The concept of vibration damping of the variable mass assembly
3. Vladimír **Hauser**, Juraj **Gerlici**, Kateryna **Kravchenko**, Tomáš **Lack**, Mária **Loulová**, Olha **Aleksandrovna-Potapenko**
Defining of the variable rail geometry for vehicle dynamic simulation
4. Josef **Soukup**, František **Klimenda**, Marian **Handrik**, Blanka **Skočilasová**
Investigation of vertical vibrations of solid plate space springy stored – vehicle model
5. Piotr **Perz**, Dominik **Wilczyński**, Ireneusz **Malujda**
Experimental determination of electromagnetic brake parameters of the positioning system
6. Vladimír **Tlach**, Zuzana **Ságová**, Ivan **Kuric**
Circular and quasi circular paths for the industrial robots measuring with the Renishaw Ballbar QC20-W



Session E3: Thursday, 06.09.2012, at 15:30 - 17:00Chairman: Prof. Juraj **Gerlici**, Assoc. Prof. Piotr **Krawiec**

1. Alžbeta **Sapietová**
Conversion of data from the laser scanner to the Ansys Workbench
2. Milan **Sapieta**
Life analysis of the bolted joint
3. Ján **Vavro jr.**, Ján **Vavro**
Kinematic analysis of stirling engine
4. Andrzej **Bąkowski**
Validation of traffic noise models
5. Oleksij **Fomin**, Juraj **Gerlici**, Alyona **Lovskaya**, Kateryna **Kravchenko**, Pavlo **Prokopenko**, Tomáš **Lack**
Improvement of the bearing structure of the wagon–platform of the articulated type to ensure the reliability of the fixing on the deck of the railway ferry
6. Tomasz **Skrzypczak**, Ewa **Węgrzyn-Skrzypczak**, Leszek **Sowa**
Investigation of the impact of geometry of the riser on the location and shape of shrinkage cavity

Session F1: Friday, 07.09.2018, at 9:00 - 10:30Chairman: Prof. Grzegorz **Domek**, Prof. Alžbeta **Sapietová**

1. Michal **Šofer**, Petr **Ferfecki**, Martin **Fusek**, Pavel **Šofer**, Renata **Gnatowska**
The numerical analysis of the interaction between the low-order Lamb wave modes and the surface breaking cracks
2. Ivana **Pobočíková**, Zuzana **Sedliačková**, Mária **Michalková**, Lenka **Kuchariková**
Monte Carlo comparison of estimation methods for the two-parameter lognormal distribution
3. Pavol **Oršanský**
Parametric oscillator with perturbation and its analytical solution
4. Zbigniew **Saturnus**, Wiesława **Piekarska**, Marcin **Kubiak**, Tomasz **Domański**, Dorota **Goszczyńska-Króliszewska**
Numerical modeling of cutting process of steel sheets using a laser beam
5. Petr **Ferfecki**, Jaroslav **Zapoměl**, Marek **Gebauer**, Václav **Polreich**, Jiří **Křenek**
A computational fluid dynamics investigation of the segmented integral squeeze film damper



Session F2: Friday, 07.09.2018, at 9:00 - 10:30Chairman: Prof. Milan **Žmindák**, PhD. Eng. Maciej **Bodnicki**

1. Mária **Blatnická**, Milan **Sága**, Miroslav **Blatnický**
Design and strength analysis of mechanical rack system
2. Tomáš **Lack**, Juraj **Gerlici**
Profiles synthesis through radii variation of arcs profile method
3. Juraj **Gerlici**, Tomáš **Lack**
Wheelset / rail geometric characteristics and contact forces assessment with regard to wheelset rolling
4. Jozef **Harušinec**, Mária **Loulová**, Andrej **Suchánek**
Creation of prototype 3D models using RAPID PROTOTYPING

Session F3: Friday, 07.09.2018, at 9:00 - 10:30Chairman: Prof. Josef **Soukup**, PhD. Eng. Tomasz **Domański**

1. Czesław **Kundera**, Jerzy **Bochnia**, Tomasz **Kozior**
Evaluation of the mechanical properties of photopolymers used in Polymer Jetting technology
2. Peter **Kopas**, Milan **Sága**, Marián **Handrik**, Milan **Vaško**, Lenka **Jakubovičová**
Fatigue characteristics of welded high strength steel in the low cycle region of loading
3. Darina **Ondrušová**, Ivan **Labaj**, Mariana **Pajtášová**, Juliana **Vršková**
Preparation and properties of new elastomeric systems containing alternative fillers

XXII Seminarium „Projektowanie Mechatroniczne” (XXII Seminar „Mechatronic Design”) – Friday, 07.09.2018, at 12:30 - 14:00

1. Aleksandra **Fierek**
Design of mechatronic unit for application of coats of adhesive
2. Mateusz **Wojtecki**
Mechatronic musical instrument
3. Kajetan **Dłużyński**
Modeling and strength FEM analysis of the rim for a solar vehicle
4. Jakub **Jędrzejewski**
Research on the response of the stabilization system to the external extortion

