



**KAUNO TECHNOLOGIJOS UNIVERSITETAS**



**Programme**

8, 9 April 2010  
Kaunas, Lithuania

**Conference is organized by**

Kaunas University of Technology  
in cooperation with Lithuanian Academy of Science, IFToMM National  
Committee of Lithuania, Baltic Association of Mechanical Engineering

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**Sections**

A - Strength of materials and structural elements  
B - Mechanical technologies  
C - Dynamics of mechanical systems  
D - Engineering of materials and their application

**Address:** 15th International Conference

"Mechanika-2010"

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**PLENARY SESSION**

8 April 2010  
Aula of KTU  
Mickevičiaus 37, Kaunas  
10.00-12.00 h

Chairman – Prof. M. Daunys  
Scientific Secretary – Assoc. Prof. V. Nenorta

Introduction – Prof. A. Fedaravičius

1. Dynamics and accuracy of precision mechatronical measurement systems  
**S. Kaušinis** (Kaunas University of Technology, Lithuania), **A. Barakauskas** (Precizika Metrology UAB, Lithuania), **A. Kasparaitis** (Vilnius Gediminas Technical University, Lithuania)
2. Vibrational cutting  
**V. Ostashevicius** (Kaunas University of Technology, Lithuania)
3. Discussions

*Section A*

**STRENGTH OF MATERIALS AND STRUCTURAL ELEMENTS**

Workshop 1

Chairman – Prof. **A. Žiliukas**

Secretary – Assoc. Prof. **V. Leišis**

8 April 2010

Faculty of Mechanical Engineering and  
Mechatronics

345 aud. (Kęstučio 27, Kaunas)

14.00-17.00 h

1. Calculations of the Sizes of Irreciprocal Demolition of Two Ellipsoids of a Software to the Limit of a Contact  
**A. Chigarev, A. Borisov** (The Belarussian national technical university, Belarus, Branch Moscow power engineering institute (Technical university) in Smolensk, Russia)
2. Acoustic Emission Diagnostics of Fatigue Crack Development During Undercarriage Bench Testing  
**A. Urbah, M. Banov, S. Doroshko, E. Harbuz, V. Turko** (Riga Technical University, Institute of Transport Vehicle Technology, Latvia)
3. Some Effective Methods to Increase Buckling Resistance of Perforated Beams with Hexagonal Holes  
**A. Pritykin, I. Pritykin** (Kaliningrad State Technical University, Russia)
4. Different Forms of Local Buckling of Perforated Beams and Conditions of Their Appearing  
**A. Pritykin, I. Pritykin** (Kaliningrad State Technical University, Russia)
5. Macroscopic and Microscopic Testing of the Steel Welded Joint in the Vertical Cylindrical Tank  
**F. Islamović, D. Gačo, F. Kulenović, E. Bajramović** (Bihać University, Bosnia and Herzegovina)
6. Assessment of Low Cycle Fatigue for Welded Joints of Austenitic Stainless Steel at Prolonged Operation  
**Z. Bazaras, B. Timofeev, Yu. Muravskaja** (Kaunas University of Technology, Lithuania; Central Research Institute of Structural Materials “Prometey”, Russia)
7. Low Cycle Fatigue of welded Joints for 10MnNi2MoVA Steel  
**Z. Bazaras, B. Timofeev, N. Vasilieva** (Kaunas University of Technology,

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- Lithuania; Central Research Institute of Structural Materials “Prometey”, Russia)
8. Fuzzy Logic Model for Description of Fatigue Behavior of Concrete  
**N. Pokorná, P. Štemberk** (Czech Technical University, Czech Republic)
  9. Truncated Effect on the Reliability Index of Fillet Welds  
**P. Bulota, A. Kudzys** (Vilnius Gediminas Technical University, Lithuania)
  10. Applied Resistance-drop Approach in the Reliability Prediction of Deteriorating Members  
**O. Lukoševičienė, A. Kudzys**, (Vilnius Gediminas Technical University, Lithuania)
  11. Determination of High Cyclic Fracture Parameters of CT Specimens of Welded Joints With Different Crack Front  
**R. Stonkus, E. Stupak, M. Leonavičius** (Vilnius Gediminas Technical University, Lithuania)
  12. Cyclic Fracture Parameters of SeminatURAL Cast Iron Specimen With Weld  
**G. Petraitis, R. Stonkus, S. Stupak** (Vilnius Gediminas Technical University, Lithuania)
  13. Investigation of Cast Iron with Carbon Float Defects Cyclic Fracture Parameters  
**M. Gutauskas, J. Bacevičius, A. Krenevičius, M. Leonavičius** (Vilnius Gediminas Technical University, Lithuania)
  14. Influence of Constructional Factors Upon Load Distribution on Turns at Bending of Threaded Connection  
**Ž. Juchnevičius, A. Krenevičius, M. Šukšta, J. Selivonec** (Vilnius Gediminas Technical University, Lithuania)
  15. Lower Extremity Landing Kinematics: Sex Differences  
**L. Daniusevičiūtė, M. Brazaitis, A. Skurvydas, S. Sipavičienė, I. Ramanauskienė, V. Linonis** (Lithuanian Academy of Physical Education, Kaunas University of Technology, Lithuania)
  16. Effect of Warming on the Skeletal Muscle Power and Fatigue for Men Performing Concentric Exercise  
**I. Ramanauskienė, A. Skurvydas, Š. Klizas, V. Linonis, L. Daniusevičiūtė** (Lithuanian Academy of Physical Education, Kaunas University of Technology, Lithuania)
  17. The Refinement of Tensile Curve Approximation by Power Function  
**A. Bražėnas** (Kaunas University of Technology, Lithuania)
  18. Temperature Induced Stresses in Rectangular Macro-Composites  
**N. Partaukas, J. Bareišis** (Kaunas University of Technology, Lithuania)

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Workshop 2

Chairman – Prof. **A. Žiliukas**  
Secretary – Assoc. Prof. **V. Leišis**

9 April 2010  
Faculty of Mechanical Engineering and  
Mechatronics  
345 aud. (Kęstučio 27, Kaunas)  
10.00-13.00 h

1. Investigation of Mechanical Characteristics of Overheated Steam Supply Pipeline Metal of the Lithuanian Power Plant  
**M. Daunys, R. Dundulis, R. Karpavičius, R. Jackuvienė** (Kaunas University of Technology, Lithuania)
2. Strength and Lifetime of Grade 45 Steel Under Low Cycle Torsion  
**M. Daunys, R. Česnavičius** (Kaunas University of Technology, Lithuania)
3. Residual Stress Influence on Low Cycle Fatigue Crack Growth  
**P. Krasauskas** (Kaunas University of Technology, Lithuania)
4. Metal Sheet Stiffness Modulation in Formed Metal Sheet Part  
**R. Bortkevičius, R. Dundulis** (Kaunas University of Technology, Lithuania)
5. Non-destructive Testing of Fiberglass Based Plastic  
**S. Baskutis, S. Kononovas** (Kaunas University of Technology, Lithuania)
6. Testing Leg Muscle Strength While Performing Vertical Jump  
**G. Čižauskas, V. Eidukynas, A. Tamošiūnaitė, A. Šulginas** (Kaunas University of Technology, Lithuania)
7. Analysis of Static and Dynamic Indentation  
**V. Čapas** (Kaunas University of Technology, Lithuania)
8. Crashworthiness Simulations of Side Underrun Protection Devices  
**D. Dailionis, P. Griškevičius** (Kaunas University of Technology, Lithuania)
9. Strength and Fracture Criteria Application in Stress Concentrators Areas  
**A. Žiliukas, A. Surantas, G. Žiogas** (Kaunas University of Technology, Lithuania)
10. Transformations as Fundamental Criteria of Deformability within Crystal-line Materials: Basic Principles  
**A. Jutas** (Kaunas University of Technology, Lithuania)

11. Durability of Concrete Covering Layer of Spillways  
**R. Šadzevičius, T. Sankauskienė, F. Mikuckis** (Lithuanian University of Agriculture, Lithuania)
12. The Analysis of Pressure Forces and Strain in Thickening of Vegetal Materials  
**A. Mioldažys, A. Pocius, A. Jasinskas** (Lithuanian University of Agriculture, Lithuania)
13. Investigation of Packages and Their Structure Elements  
**V. Miliūnas, E. Kibirkštis, I. Dagtė, V. Bivainis V. Kulaitytė** (Kaunas University of Technology, Lithuania)
14. Approximations of Elastic-plastic Transverse and Axial Column Displacements Dependence on Column Bending-compressing Forces  
**N. Adamukaitis, V. Kargaudas** (Kaunas University of Technology, Lithuania)
15. A New Method and Devise for Clothing Materials Deformation Evaluation  
**Ž. Jakubčionienė, V. Masteikaitė, V. Sacevičienė** (Kaunas University of Technology, Lithuania)
16. Multiobjective Analysis of Elastic Airfram  
**K. Petkevičius** (Kaunas University of Technology, Lithuania)
17. Influence of Triboelectric Phenomenon on Mechanical Properties of Fiber-forming Polymers  
**R. Stankutė-Subačienė, D. Grinevičiūtė M. Gutauskas, S. Žebrauskas** (Kaunas University of Technology; Lithuanian Textile Institute, Lithuania)
18. Numerical Calculation Sequence of Long Facility for Sports and Entertainment Skiing Slope Complex  
**M. Samofalov, A. Budko, M. Janovič** (Vilnius Gediminas Technical University, Lithuania)

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*Section B*

**MECHANICAL TECHNOLOGIES**

Workshop 1

Chairman – Prof. **A. Bargelis**  
Secretary – Assoc. Prof. **R. Mankutė**

8 April 2010  
Faculty of Mechanical Engineering and  
Mechatronics  
318 aud. (Kęstučio 27, Kaunas)  
13.00-17.00 h

1. The Effects of Module-based Design on Design and Manufacturing of a Complex Product  
**L. Ristimäki, V. Ojanen, T. Kässi** (Lappeenranta University of Technology, Finland)
2. Concrete - an Alternative Material for Machine-frames  
**R. Bernau, T. Erbe, M. Berg, R. Theska** (Ilmenau University of Technology, Germany)
3. Concept of High Precision Ball Guideway with Three DOFs  
**M. Heyne, T. Erbe, R. Theska** (Ilmenau University of Technology, Germany)
4. High Precision Test Device for Calibration of Miniaturized Three-dimensional Magnetic Sensors  
**B. Goy, L. Dittrich, T. Erbe, S. Rosenbaum, M. Hoffmann** (Ilmenau University of Technology, Germany)
5. Actuator Selection During the Design Process  
**T. Erbe, S. A. Emam, T. Ströhla, Chr. Weber** (Ilmenau University of Technology, Germany)
6. An Approach on Model-based Shape Optimization of Compliant Mechanisms  
**S. Linß, T. Erbe, D. Grinevich, L. Zentner** (Ilmenau University of Technology, Germany)
7. Turbulence Flow Dynamics and Vortex Rings of Heart Valve  
**M. V. Kireitseu, D. R. Troolin** (TSI GmbH, Fluid Mechanics Instruments, Germany)
8. The Recent Developments in PIV Instrumentation and Applications to Fluid Dynamics Research  
**M. V. Kireitseu** (TSI GmbH, Fluid Mechanics Instruments, Germany)

9. Recognizing Small Tool Breakage During Interrupted Cutting for Turning Operations  
**V. Rynnänen, A. Vian, J. Ratava, T. Lindh, M. Rikkonen, I. Sihvo, J. Leppänen, J. Varis**, (Lappeenranta University of Technology, Finland)
10. Procedure to Aid of Diagnostic of Osteoporotical Changes in Human Pelvic Bone  
**A. John, M. Duda, G. Kokot** (Silesian University of Technology, Poland)
11. Modeling and Static Analysis of Human Hip-joint Before and After Kapoplastic Operation  
**A. John, G. Kokot, M. Duda** (Silesian University of Technology, Poland)
12. New Possibility in Welding Simulation by Finite Element Method  
**G. Kokot, A. John, W. Kuś** (Silesian University of Technology, Poland)
13. Rational Algorithms of Management Mechatronic Systems of Hydrostatic Spherical Support of Mechanisms Hexapod  
**Y. Filatov, S. Strutinskiy** (National Academy of Sciences of Ukraine, Bakul Institute for Superhard Materials, Ukraine)
14. Impact of Different Customer Requirements and Factors to the Manufacturing Process and Cost  
**D. Čikotiene, A. Bargelis** (Kaunas University of Technology, Lithuania)
15. Estimation of a Roughness and Reflective Ability of Surfaces of Products from Nonmetallic Materials at Finishing Abrasive Processing  
**Y. Filatov, V. Yashchuk, A. Filatov, U. Heisel, M. Storchak, G. Monteil** (National Academy of Sciences of Ukraine, Bakul Institute for Superhard Materials, Ukraine; University of Stuttgart, Germany; National Engineering Institute in Mechanics and Microtechnologies, France)
16. Optimal Velocity of a Selected Point on Planar Mechanism by Method of Genetic Algorithm  
**D. Sprečić T. Čampara** (University of Tuzla, Bosnia and Herzegovina)
17. The Influence of Process Gases in Different Laser-Arc Hybrid Welding Processes  
**P. Kah, V. Kujanpää, J. Martikainen** (Lappeenranta University of Technology, Finland)
18. Investigation of Expansive Additive on Properties of Repair Mortars  
**R. Skominas, V. Gurskis, D. Ramukevičius** (Lithuanian University of Agriculture, Lithuania)
19. Formation of Graphical Elements by Laser Radiation onto Thermosensitive Latex Layer  
**J. Margelevičius, D. Sajek** (Kaunas University of Technology; Kaunas College, Lithuania)

20. Experimental Determination of Systematic Errors of Precision Angle Measurers  
**A. Kasparaitis, A. Prielaidas, R. Lazdinas** (Vilnius Gediminas Technical University, Lithuania)
21. Investigation and Errors Analysis of High Precise Linear Movement Device  
**A. Kasparaitis, A. Šukys, T. Valaitis** (Vilnius Gediminas Technical University, Lithuania)
22. Analysis of Assumptions and Possibilities of Pneumatic Transport Plane  
**M. Palšauskas, J. Bozys, E. Jotautienė** (Lithuanian University of Agriculture, Lithuania)
23. Experimental Research of Suction Velocity of Side Exhausters  
**V. Vekteris, I. Tetsman, V. Strishka** (Vilnius Gediminas Technical University, Lithuania)

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Workshop 2

Chairman – Prof. **A. Bargelis**  
Secretary – Assoc. Prof. **R. Mankutė**

9 April 2010  
Faculty of Mechanical Engineering and  
Mechatronics  
318 aud. (Kęstučio 27, Kaunas)  
10.00-14.00 h

1. Research of Heat Transfer in the Entrance Region of Infinite Film Flow  
**S. Šinkūnas, A. Kiela, J. Maciulevičius** (Kaunas University of Technology, Kaunas College, Lithuania)
2. Artificial Intelligent Methods in Production Costs Estimation  
**A. Česnulevičius, D. Garuckas, O. Purvinis** (Kaunas University of Technology, Lithuania)
3. Behaviour the Flat Yarn Systems Punch Pulling Process  
**J. Valiukėnaitė, L. Paprečkienė, M. Gutauskas** (Kaunas University of Technology, Lithuania)
4. Investigation of Granular Materials Motion in Transportation and Batching Devices  
**H. Medekšas, J. Šiškova** (Kaunas University of Technology, Lithuania)
5. Investigation of Anti-Wear Coated HSS Tools Wear During Wood Milling  
**G. Keturakis, A. Miskelis** (Kaunas University of Technology, Lithuania)
6. Theoretical Study of Work a Weight Batcher for Dry Products  
**K. Bendraitis, A. Lebedys, S. Paulauskas** (Kaunas University of Technology, Lithuania) (Kaunas University of Technology, Lithuania)
7. Experimental Studies on Drop Test of Filled Coated Graphical Board Packages  
**V. Bivainis, E. Kibirkštis, A. Lebedys** (Kaunas University of Technology, Lithuania)
8. Investigation and Modelling of the Thermal Drilling Process  
**P. Krasauskas, J. Kvalkauskas, R. Česnavičius** (Kaunas University of Technology, Lithuania)
9. Peculiarities of Packages Ecological Design  
**E. Kibirkštis, A. Kabelkaitė** (Kaunas University of Technology, Lithuania)
10. Dome Development Layout Modeling Using Data Presented in DWG File  
**V. Nenorta** (Kaunas University of Technology, Lithuania)
11. Manufature Methods in Application of Renewable Energy Technologies  
**A. Bargelis, A. Baltrušaitis** (Kaunas University of Technology, Lithuania)

12. Inter-countries Research for Manufacturing Advancement in Lithuania  
**R. Mankutė, A. Bargelis** (Kaunas University of Technology, Lithuania)
13. Investigation of Machine Parts Electromechanical Restoration  
**S. Markauskas, M. Kalvelis** (Kaunas University of Technology, Lithuania)
14. MEMS Technology for Tracking Applications  
**S. Kaušinis, R. Barauskas, A. Barauskas** (Kaunas University of Technology, Lithuania)
15. Cutting Inserts Wear reasons in Aluminum Machining  
**J. Radzevičiūtė, J. Mikelaitis** (Lithuanian University of Agriculture, Lithuania)
16. Analysis of Vibroactivity of Dolomite Grinding Mills  
**Ž. Utkā, E. Juzėnas, K. Juzėnas** (Kaunas University of Technology, Lithuania)

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*Section C*

**DYNAMICS OF MECHANICAL SYSTEMS**

Workshop 1

Chairman – Prof. **A. Fedaravičius**  
Secretary – Prof. **R.T. Toločka**

8 April 2010  
Faculty of Mechanical Engineering and Me-  
chatronics  
Conference hall of GTI  
(Kęstučio 27, Kaunas)  
13.00-17.00 h

1. Investigation of Modeling, Reconstruction and Control of Acoustic Field Generated by Sound Source in Enclosed Space  
**V. Volkovas** (Kaunas University of Technology, Lithuania)
2. The Influence of Technological Parameters on the Wood Planer Machine Vibrations  
**I. Karabegović, S. Gredelj** (Bihać University, Bosnia and Herzegovina)
3. Spatial Vibration of Cargo Cars in Computer Modelling with the Account of their Inertia Properties  
**S. Myamlin, A. Ten, L Neduzha, A Schvets** (Dniepropetrovsk National University of Railway Transport, Ukraine)
4. Influence of Line Scale Contamination and Defects Upon Calibration Uncertainty in Dynamic Mode  
**A. Barakauskas, A. Kasparaitis, R. Lazdinas** (JSC “Precizika Metrology”; Vilnius Gediminas Technical University, Lithuania)
5. The Investigative of the Damping Equipment Influence to Precise Comparator  
**A. Kilikevičius, V. Vekteris, D. Vainorius** (Vilnius Gediminas Technical University, Lithuania)
6. Low Rotation Speed Gear Transmission with Rolling Bearings Vibration Evaluation and Failures Prognosis  
**P. Mažeika, V. Barzdaitis, V. Kartašovas** (Klaipeda University Mechatronic Science Institute, Lithuania)
7. Antifriction Bearings Diagnostics Problems  
**V. Žemaitis, V. Barzdaitis** (Kaunas University of Technology, Lithuania)

8. Modeling of Rotors with Variable Dynamic Parameters  
**V. Kartašovas, P. Mažeika, V. Barzdaitis** (Klaipėda University Mecha-  
tronic Science Institute, Lithuania)
9. The Research of Generators of Aerodynamic Acoustic Field  
**V. Vekteris, D. Ozarovskis, V. Striška** (Vilnius Gediminas Technical Uni-  
versity, Lithuania)
10. Modelling of Real-time Sound Propagation for Optimisation of Technical  
Systems  
**S. Husung, R. Mikalauskas, C. Weber, T. Kästner** (Ilmenau University of  
Technology, Germany; Kaunas University of Technology, Lithuania)
11. Fabrication Technology and Eigenfrequency Analysis of Micro-membrane  
**K. Malinauskas, V. Ostaševičius, R. Daukševičius, V. Grigaliūnas** (Kau-  
nas University of Technology, Lithuania)
12. Experimental Research of Vibratory Alignment with Adjustable Rigidity  
Remote Center Compliance Device  
**B. Bakšys, A. Chadarovičius** (Kaunas University of Technology, Lithua-  
nia)
13. Controlled Dry Friction Influence for Parts Positioning in Assembly Process  
**T. Sokolova, B. Bakšys** (Kaunas University of Technology, Lithuania)
14. A Method of Initial Accelerometer Collected Vibration Data Processing For  
Improved Accuracy  
**V. Benevičius, V. Ostaševičius** (Kaunas University of Technology, Lithua-  
nia)
15. Experimental investigation of vibrational drilling  
**M. Ubartas, V. Ostaševičius, V. Jūrėnas, R. Gaidys** (Kaunas University  
of Technology, Lithuania)
16. Fabrication and Analysis of Piezoactive Structure Used for Energy Micro-  
harvesters  
**V. Ostaševičius, I. Milašauskaitė, R. Daukševičius, V. Baltušaitis,  
V. Grigaliūnas, I. Prosyčėvas** (Kaunas University of Technology, Lithua-  
nia)
17. Analysis the Interaction of RC Slab Under Shock Impact Load  
**J. Vaičiūnas, V. Dorošėvas** (Kaunas University of Technology, Lithuania)
18. Investigation of active kinematic pair  
**G. Baurienė, K. Pilkauskas** (Kaunas University of Technology, Lithuania)
19. Research of Defects in Non-uniform Mechanical Systems Using Dynamic  
Methods  
**V. Bučinskas, E. Šutinys** (Vilnius Gediminas Technical University, Lithua-  
nia)
20. Computer Analysis of Ultrasonic Pulse Signals  
**D. Karalienė, Z. Navickas, S. Sajauskas** (Kaunas University of Technolo-  
gy, Lithuania)

21. Impact of Technological Parameters on Optical Characteristics of Print  
**K. Vaitasius, D. Bagdonas, I. Kanapickaitė** (Kaunas University of Technology, Lithuania)
22. Synchronization of Work of Pneumatic Self-exciting Vibrodrives  
**E. Kibirkštis, K. Vaitasius, D. Pauliukaitis** (Kaunas University of Technology, Lithuania)
23. Inertial Load Control of a Training Machine  
**R. Maskvytis, R.-T. Toločka, V. Grigas** (Kaunas University of Technology, Lithuania)
24. Research of Rotary Oscillations Vibrator, Based on Magnetic Coupling  
**K. Kanapeckas, R. Jonušas, K. Ragulskis, K. Juzėnas** (Kaunas University of Technology, Lithuania)
25. Investigation of Contact Point Trajectories of the Piezoelectric Actuator With Two Directional polarizations  
**R. Lučinskis, D. Mažeika, R. Bansevičius** (Vilnius Gediminas Technical University, Kaunas University of Technology, Lithuania)

*Section D*

**ENGINEERING OF MATERIALS AND THEIR APPLICATION**

Chairman – Prof. **S. Bočkus**

Secretary – Assoc. Prof. **A. Čiuplys**

8 April 2010

Faculty of Mechanical Engineering and  
Mechatronics

237 aud. (Kęstučio 27, Kaunas)

13.00-17.00 h

1. Phase Transitions in Metal-polymeric Nanocomposites in the Formation and Operation Process

**A. Ryskulov, V. Struk S. Avdeychik, E. Eisymont** (Tashkent Automobile and Road Institute, Uzbekistan, Education-methodical centre "Promagromash" of JSC "Belkard", Belarus)

2. Features of Structure of Mixtures Nanopolymeric Composites

**A. Ryskulov, V. Kravchenko, V. Struk S. Avdeychik,** (Tashkent Automobile and Road Institute, Uzbekistan, The education-methodical centre "Promagromash" of JSC "Belkard", Belarus)

3. Structure and Technologies Engineering Nanocomposite Fluorinated Materials

**A. Antonovich, V. Voropaev, V. Sarokin, S. Avdeychik** (JSC "Institute of Resource Saving Problems with Pilot Plant", The education-methodical centre "Promagromash" of JSC "Belkard", Belarus)

4. Fluorine -containing Nanocomposite Materials Based on vulcanized rubber

**V. Polonik, V. Struk, D. Prushak, E. Ovchinnikov, E. Eisymont** (Belarusian State Technological Institute, JSC "Institute of Resource Saving Problems with Pilot Plant", Belarus)

5. Special Features of Breaking the Welded Connections of the Titanium Melt-able Alloy BT 3-1

**I. Vishniakas** (Vilnius Gediminas Technical University, Lithuania)

6. Investigation of the Pearlite of Ductile Iron

**S. Bočkus, G. Žaldarys** (Kaunas University of Technology, Lithuania)

7. Quality Analysis of Stainless Steel Welded Joints

**E. Biekša, R. Krančiukas** (Kaunas University of Technology, Lithuania)

8. UV Irradiation Influence on Surface Mechanical Properties of Nanocomposites

**S. Ponelytė, A. Palevičius, A. Guobienė, I. Prosyčėvas, J. Puišo,**

**E. Griškonis, I. Prosyčėvas** (Kaunas University of Technology, Lithuania)

9. Investigation of Plastic Deformation Locality of Armco Iron by Inductive Method  
**J. S. Vilys, A. Čiuplys, V. Čiuplys, V. Kvedaras** (Kaunas University of Technology, Lithuania)
10. Overlay Welded Steel Coating Hardened due to Precipitated Carbides and Intermetallic Phases  
**P. Ambroza, L. Kavaliauskienė, E. Pupelis**, (Kaunas University of Technology, Lithuania)
11. Investigation of Ni-Al-O Coatings  
**K. Babilius, A. Babilius** (Kaunas University of Technology, Lithuania)

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Formers: Vidmantas Nenorta and Romualdas Dundulis