



9TH INTERNATIONAL CONFERENCE OF YOUNG
SCIENTISTS ON ENERGY ISSUES
CYSENI 2012
May 24-25, 2012
Kaunas, Lithuania



General sponsor:



Lithuanian Energy Institute

Cooperation:



Sponsors:

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MORNING SESSION (24th May, 2012)

(Main Hall)

Chairman: dr. Diana Meilutytė-Barauskienė

8.30-9.00	Registration
9.00-9.20	Welcome
9.20-9.40	Dr. Rimantas Levinskas (Lithuanian Energy Institute, Lithuania). Lithuanian Energy Institute – Future energy Technology Science Centre in SANTAKA Valley.
9.40-10.00	Dr. Audrius Žvirkas (Research Council of Lithuania, Lithuania). COST programme – pathway to international research networking.
10.00-10.20	Dr. Gintautas Klevinskas (Visaginas Nuclear Power plant, Lithuania). Visaginas Nuclear Power Plant Project progress.

10.20-11.20 Coffee break

SECTION A (24th May, 2012)

2. ATSINAUJINANČIŲ ENERGIOS IŠTEKLIŲ RESURSAI IR JŲ NAUDOJIMAS RENEWABLE ENERGY SOURCES AND THEIR USE

Section A1 (Main hall)

Chairman: dr. Diana Meilutytė-Barauskienė

11.20-11.40	Chueh-Cheng Wu, Hong-Tai Chen, Sy-Ruen Huang, Gung-Ching Li, Chen-Yeon Chu (Feng Chia University, Taichung, Taiwan). Human kinetic energy harvesting linear generator. Official reviewer: Dr. A. Jonaitis (KTU)
11.40-12.00	P. Vilkiniš, A. Kanapickas (Vyttautas Magnus University, Lithuania). Long term variations of solar and radiation. Official reviewer: Dr. J. Kažys (VU)
12.00-12.20	S. N. A. F. Rahma (Gadjah Mada University, Indonesia), A. Saputra (University of Aveiro, Portugal). Study on technology implementation concept of algae cultivation as an alternative energy for community. Official reviewer: Dr. A. Jasinskas (ASU)
12.20-12.40	Kuo-Hsin Lin, Alex C.C. Chang, Chen-Yeon Chu, Chiu-Yue Lin (Feng Chia University, Taichung, Taiwan). Methanol synthesis from bio-hydrogen. Official reviewer: Dr. N. Striūgas (LEI)

12.40-13.40 Lunch

4. ENERGIOS VARTOJIMO EFEKTYVUMAS IR TAUPYMAS ENERGY EFFICIENCY AND SAVINGS

Section A2 (Main hall)

Chairman: dr. Diana Meilutytė-Barauskienė

13.40-14.00	E. S. Quintal, H. S. Bernardo (Institute for Systems Engineering and Computers at Coimbra, Portugal), L. P. Neves (Polytechnic Institute of Leiria, Portugal). Energy audit approach to a Portuguese university campus. Official reviewer: Dr. A. Lisauskas (LEI)
14.00-14.20	P. Bruggevičius, A. Burlingis, V. Stankevičius (Kaunas University of Technology, Lithuania). The construction of Lithuanian hourly meteorological data for building energy simulation. Official reviewer: Dr. E. Jaraminiene (VGTU)
14.20-14.40	G. Frīdenbergs, A. Lešinskis (Riga Technical University, Latvia). Supply air temperature and humidity interaction on thermal performance of indirect evaporative air cooling. Official reviewer: Dr. J. Karbauskaitė (KTU)
14.40-15.00	T. Iešmantas, R. Alzbutas (Lithuanian Energy Institute, Lithuania). Designing of energy efficient system considering power consumption and reliability. Official reviewer: Dr. N. Listopadskis (KTU)

15.00-15.20 Coffee break



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SECTION A (24th May, 2012)

4. ENERGIJOS VARTOJIMO EFEKTYVUMAS IR TAUPYMAS

ENERGY EFFICIENCY AND SAVINGS

Section A3 (Main hall)

Chairman: dr. Diana Meilutytė-Barauskienė

15.20-15.40	R. Savickas (Vilnius Gediminas Technical University, Lithuania). Precise evaluation of heat energy for hot water for energy efficiency calculations. Official reviewer: Dr. V. Kveselis (LEI)
15.40-16.00	S. Liepinš, A. Lešinskis, U. Iljins (Latvia University of Agriculture, Latvia). Heat permeability measurement with Thermographic camera. Official reviewer: Dr. J. Karbauskaitė (KTU)
16.00-16.20	G. Plavenieks, A. Lesinskis (Riga Technical University, Latvia). Case study of energy efficiency in air handling units in Latvia schools. Official reviewer: Dr. R. Gatautis (LEI)
16.20-16.40	J. Podervytė, R. Bliūdžius, K. Banionis (Kaunas University of Technology, Lithuania). Microclimate parametres ensurance in a air heated buildings. Official reviewer: Dr. R. Škėma (LEI)

16.40-17.00 Coffee break

4. ENERGIJOS VARTOJIMO EFEKTYVUMAS IR TAUPYMAS

ENERGY EFFICIENCY AND SAVINGS

Section A4 (Main hall)

Chairman: dr. Diana Meilutytė-Barauskienė

17.00-17.20	R. Savickas (Vilnius Gediminas Technical University, Lithuania). Influence of heat measurement method on consumed amount of heat in dwelling houses. Official reviewer: Dr. R. Bliūdžius (KTU)
17.20-17.40	A. Klūga, R. Belinskis (Riga Technical University, Latvia), A. Krūmiņš (Institute of Heat, Gas and Water Technology, Latvia). Room climate control systems research using PID controller parameters. Official reviewer: Dr. E. Jaraminienė (VGTU)
17.40-18.00	G. Stankevica (Riga Technical University, Latvia). Cooling degree days and hours for Latvia. Official reviewer: Dr. G. Šiupšinskas (VGTU)
18.00-18.20	R. Valančius, A. Jurelionis (Kaunas University of Technology, Lithuania). Influence of unsteady thermal state on energy performance and productivity in office buildings. Official reviewer: Dr. V. Kveselis (LEI)
18.20-18.40	K. Grinbergs, P. Shipkovs (Institute of Physical Energetics, Latvia), P. Shipkovs (Riga Technical University, Latvia). Pool as a cooling device. Official reviewer: Dr. A. Rogoža (VGTU)
18.40-19.00	Ē. Krūmiņš (Latvia University of Agriculture, Latvia), I. Dimdiņa, A. Lešinskis (Riga Technical University, Latvia). Energy consumption in day-care centre buildings. Official reviewer: Dr. E. S. Juodis (VGTU)

19.00 Conference dinner (canteen)



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SECTION B (24th May, 2012)

11. BRANDUOLINĖ ENERGETIKA IR RADIACINĖ SAUGA

NUCLEAR FISSION AND RADIATION PROTECTION

Section B1 (Room AK-202)

Chairman: Mantas Valantinavičius

11.20-11.40	D. Justinavičius (Lithuanian Energy Institute, Lithuania). Modelling of two-phase flow of hydrogen gas in the disposal cell of repository for high level radioactive waste. Official reviewer: Dr. T. Sabonis (VU)
11.40-12.00	T. Kaliatka (Lithuanian Energy Institute, Lithuania). Modelling of Quench experiment using RELAP/SCDAPSIM code. Official reviewer: Dr. A. Narkūnienė (LEI)
12.00-12.20	A. Slavickas (Lithuanian Energy Institute, Lithuania). Neutronic and safety parameters variations in innovative BWR assembly with enhanced moderation.
12.20-12.40	M. Povilaitis (Lithuanian Energy Institute, Lithuania). Sensitivity and uncertainty analysis of M5 experiment simulations.

12.40-13.40 Lunch

11. BRANDUOLINĖ ENERGETIKA IR RADIACINĖ SAUGA/NUCLEAR FISSION AND RADIATION PROTECTION

2. ATSINAUJINANČIŲ ENERGIOS IŠTEKLIŲ RESURSAI IR JŲ NAUDOJIMAS/RENEWABLE ENERGY SOURCES AND THEIR USE

Section B2 (Room AK-202)

Chairman: Vladimir V. Leschevich

13.40-14.00	A. Kontautas, E. Urbonavičius (Lithuanian Energy Institute, Lithuania). Analysis of aerosol, fission product and iodine behaviour in phebus containment. Official reviewer: Dr. T. Sabonis (VU)
14.00-14.20	D. Sankauskas, V. Katinas (Lithuanian Energy Institute, Lithuania). Investigation of wind power plant generation efficiency. Official reviewer: Dr. A. Gulbinas (ASU)
14.20-14.40	K. Zakarauskas, N. Striūgas, G. Stravinskas (Lithuanian Energy Institute, Lithuania). Investigation of thermal cracking of syngas tar from biomass gasification by catalytic steam reforming. Official reviewer: Dr. Habil. V. A. Katinas (LEI)
14.40-15.00	M. Zalewski, A. G. Chmielewski, J. Palige, O. K. Roubinek (Institute of Nuclear Chemistry and Technology, Poland). Management of vegetable and food waste for biogas production. Official reviewer: Dr. K. Venslauskas (ASU)

15.00-15.20 Coffee break

2. ATSINAUJINANČIŲ ENERGIOS IŠTEKLIŲ RESURSAI IR JŲ NAUDOJIMAS

RENEWABLE ENERGY SOURCES AND THEIR USE

Section B3 (Room AK-202)

Chairman: Darius Justinavičius

15.20-15.40	G. Nkwusi, I. Leinemann, M. Grossberg, M. Altosaar, D. Meissner, R. Traksmaa, T. Kaljuvee (Tallinn University of Technology, Estonia). Formation of copper zinc tin sulfide in cadmium iodide for monograin membrane solar cells. Official reviewer: Dr. J. Baltrušaitis (Iowa University, USA)
15.40-16.00	V. Tilvikienė, L. Šarūnaitė, L. Pocienė, Ž. Kadžiulienė (Lithuanian Research Centre for Agriculture and Forestry, Lithuania). Biomass potential of perennial energy grasses. Official reviewer: Dr. A. Jasinskas (ASU)
16.00-16.20	P. Shipkovs, A. Snegirjovs, L. Migla (Institute of Physical Energetics and Riga Technical University, Latvia). Heat losses influence on solar thermal systems. Official reviewer: Dr. E. Perednis (LEI)
16.20-16.40	K. Vagolinš, G. Frīdenbergs, P. Šipkovs (Riga Technical University, Latvia). Using straw for high efficiency heating in farming. Official reviewer: Dr. N. Pedišius (LEI)

16.40-17.00 Coffee break

4. ENERGIOS VARTOJIMO EFEKTYVUMAS IR TAUPYMAS

ENERGY EFFICIENCY AND SAVINGS

Section A4 (Main hall)

Chairman: dr. Diana Meilutyte-Barauskienė

17.00-19.00

19.00 Conference dinner (canteen)



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SECTION C (24th May, 2012)

3. ŠIUOLAIKINIAI ENERGIJOS TINKLAI/SMART ENERGY NETWORKS

1. VANDENILIS IR KURO ELEMENTAI/HYDROGEN AND FUEL CELLS

Section C1 (Library)

Chairman: Darius Laurinavičius

11.20-11.40	O. Kochukov, A. Mutule (Institute of Physical Energetics, Latvia). Modeling of large electrical power systems under energy market conditions. Official reviewer: Dr. R. Alzbutas (LEI)
11.40-12.00	I. Priedīte-Razgale (Institute of Physical Energetics, Latvia), J. Rozenkrons, A. Ļvovs (Riga Technical University, Latvia). Feasibility study of overhead lines replacement with underground cable lines in the mv distribution network. Official reviewer: Dr. A. Klementavičius (LEI)
12.00-12.20	E. Petersons, N. Bogdanovs (Riga Technical University, Latvia). Bandwidth calculation of short range communication vehicular network. Official reviewer: Dr. I. Stasiulaitienė (KTU)
12.20-12.40	I. Dimanta, V. Nikolajeva, A. Gruduls, I. Muižnieks, J. Kleperis (University of Latvia, Latvia). Bio-hydrogen production assessment using fermentative bacteria and crude glycerol as substrate. Official reviewer: Dr. N. Striūgas (LEI)

12.40-13.40 Lunch

1. VANDENILIS IR KURO ELEMENTAI/HYDROGEN AND FUEL CELLS 9. GLOBALŪS POKYČIAI IR EKOSISTEMOS/GLOBAL CHANGE AND ECOSYSTEMS

Section C2 (Library)

Chairman: Tadas Kalaiatka

13.40-14.00	K. Gedvilas, L. Pranevičius (Vytautas Magnus University, Lithuania). Study of surface topography effects initiated by treatment of thin Ti films in water plasma. Official reviewer: Dr. L. Marcinauskas (LEI)
14.00-14.20	M. Urbonavičius, D. Girdzevičius, T. Rajackas, S. Tuckute, L. L. Pranevičius (Vytautas Magnus University, Lithuania). On oxidation mechanism of Ti films in water vapour plasma. Official reviewer: Dr. V. Grigaitienė (LEI)
14.20-14.40	A. G. Chmielewski, K. Wawryniuk, J. Antczak (Institute of Nuclear Chemistry and Technology, Poland). Separation of synthesis gas components using polymeric and metallic membranes. Official reviewer: Dr. D. Milčius (LEI)
14.40-15.00	D. Laurinavičienė, A. Dédelė, K. Dédelienė (Vytautas Magnus University, Lithuania). Distribution of benzene concentration in Kaunas city. Official reviewer: Dr. I. Radžiūnienė (KTU)

15.00-15.20 Coffee break

9. GLOBALŪS POKYČIAI IR EKOSISTEMOS

GLOBAL CHANGE AND ECOSYSTEMS

Section C3 (Library)

Chairman: Mario Turcik

15.20-15.40	A. Moisejenkova, A. Girgždys (Vilnius Gediminas Technical University, Lithuania), N. Tarasiuk (Center for Physical Sciences and Technology, Lithuania). Peculiarity of Radiocesium behaviour in lakes Tapeliai, Juodis and Raudonasis. Official reviewer: Dr. D. Grigaliūnienė (LEI)
15.40-16.00	A. Jurgelėnaitė (Lithuanian Energy Institute, Lithuania). Intra-annual thermal variability of Lithuanian rivers. Official reviewer: Dr. I. Radžiūnienė (KTU)
16.00-16.20	J. Žaltauskaitė (Vytautas Magnus University, Lithuania). Assessment of solid waste landfill leachate toxicity using aquatic microinvertebrates and plants. Official reviewer: Dr. I. Radžiūnienė (KTU)
16.20-16.40	D. Jakimavičius (Lithuanian Energy Institute, Lithuania). Global climate change scenarios adaptation for the prediction of the Nemunas runoff. Official reviewer: Dr. I. Stasiulaitienė (KTU)

16.40-17.00 Coffee break

4. ENERGIJOS VARTOJIMO EFEKTYVUMAS IR TAUPYMAS

ENERGY EFFICIENCY AND SAVINGS

Section A4 (Main hall)

17.00-19.00

19.00 Conference dinner (canteen)



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DAY 2 (25th May, 2012)

SECTION A

**5. ŽINIOS ENERGETIKOS POLITIKAI FORMUOTI
KNOWLEDGES FOR ENERGY POLICY MAKING**
Section A1 (Main Hall)
Chairman: dr. Diana Meilutytė-Barauskienė

9.00-9.20	A. Beloborodko, M. Roša, L. Ozolina (Riga Technical University, Latvia). Advantages and obstacles for the development of industrial symbiosis in Latvia. Official reviewer: Dr. J. Dvarionienė (KTU)
9.20-9.40	K. Česnaitė (Vilnius University, Lithuania). Regulation of Renewable Energy in European Union and Problems of Implementation in Lithuania. Official reviewer: Dr. D. Štreimikienė (LEI)
9.40-10.00	A. Kažukauskas, J. Jaraite (Umeå University, Sweden). The profitability of power generating firms and policies promoting renewable energy. Official reviewer: Dr. M. Eidukevičiūtė (KTU)
10.00-10.20	A. Lvovs, A. Mutule (Riga Technical University, Latvia). Estimation of power supply interruption related costs. methodology, survey questionnaire and received data normalization. Official reviewer: Dr. R. Alzbutas (LEI)
10.20-10.40	L. Martišauskas (Lithuanian Energy Institute, Lithuania). Osemosys model application for disturbed energy system modelling. Official reviewer: Dr. E. Norvaiša (LEI)

10.40-11.00 Coffee break

**5. ŽINIOS ENERGETIKOS POLITIKAI FORMUOTI
KNOWLEDGES FOR ENERGY POLICY MAKING**
Section A2 (Main Hall)
Chairman: dr. Diana Meilutytė-Barauskienė

11.00-11.20	L. Murauskaitė (Lithuanian Energy Institute, Lithuania). Impact of legal regulation to use renewable energy in district heating. Official reviewer: Dr. S. Milčiuvienė (VDU)
11.20-11.40	A. Obusevs, I. Oleinikova (Institute of Physical Energetic, Latvia). Modeling of zonal prices with application in long-term development planning strategies. Official reviewer: Dr. A. Pažėraitė (LEI)
11.40-12.00	T. Odineca (Riga Technical University, Latvia). Methods used for stimulation of "green" CHP development in Latvia. Official reviewer: A. Rogoža (VGTU)
12.00-12.20	U. Roßegger (Technical University of Braunschweig, Germany). Nuclear waste management programmes within Sweden and in the United Kingdom. Official reviewer: Dr. V. Ragaišis (LEI)
12.20-12.40	A. Saputra, E. Fonseca, Y. Dias (University of Aveiro, Portugal). Comparison of fuel consumption, emission, and economic consideration in goods delivery process from Portugal to Brasil between airbus A340 and CSAV rungue: a case study. Official reviewer: Dr. I. Konstantinavičiūtė (LEI)
12.40-13.00	M. Turcik, I. Oleinikova (Institute of Physical Energetics, Latvia). Analysis of electricity market price formation factors. Official reviewer: Dr. Habil. V. Miškinis (LEI)

13.00-13.20 Coffee break

Section A3 (Main hall)
Chairman: dr. Diana Meilutytė-Barauskienė
Final discussion and closure

13.20-14.20



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SECTION B

6. ŠILUMINĖS FIZIKOS, SKYSČIŲ BEI DUJŲ MECHANIKOS IR METROLOGIJOS SRIČIŲ TYRIMAI
INVESTIGATIONS IN THE FIELDS OF THERMAL PHYSICS, FLUID MECHANICS AND METROLOGY
Section B1 (Room AK-202)
Chairman: Darius Justinavicius

9.00-9.20	A. A. Brin, A. I. Petruchik (A. V. Luikov Heat and Mass Transfer Institute, Belarus). Influence of cooling tower on thermal parameters of circulating water systems. Official reviewer: Dr. A. Adomavičius (KTU)
9.20-9.40	E. Maslauskas, M. Kulokas (Lithuanian Energy Institute, Lithuania). Research of viscosity influence to Coriolis mass flowmeters flow rate measurement accuracy. Official reviewer: Dr. M. Jakubčionis (KTU)
9.40-10.00	D. Laurinavičius, M. Šeporaitis (Lithuanian Energy Institute, Lithuania). Peculiarities of water temperature field measurement using infrared camera.
10.00-10.20	K. Norvaišienė, G. Miliauskas (Kaunas University of Technology, Lithuania). The method of systematical evaluation of thermal radiant influence on the interaction of unsteady heat and mass transfer processes of evaporating droplet. Official reviewer: Dr. Habil. B. Česna (LEI)
10.20-10.40	V. I. Saverchenko, J. A. Khodyko (A. V. Luikov Heat and Mass Transfer Institute, Belarus). Low pressure evaporation of binary picoliter droplet on substrate. Official reviewer: Dr. Habil. A. Šlančiauskas (LEI)

10.40-11.00 Coffee break

6. ŠILUMINĖS FIZIKOS, SKYSČIŲ BEI DUJŲ MECHANIKOS IR METROLOGIJOS SRIČIŲ TYRIMAI/INVESTIGATIONS IN THE FIELDS OF THERMAL PHYSICS, FLUID MECHANICS AND METROLOGY
5. ŽINIOS ENERGETIKOS POLITIKAI FORMUOTI/KNOWLEDGES FOR ENERGY POLICY MAKING
Section B2 (Room AK-202)
Chairman: Andrius Slavickas

11.00-11.20	O. G. Penayzkov, A.V. Skilandz (A. V. Luikov Heat and Mass Transfer Institute, Belarus). Oblique shock wave evolution with distance from endwall in argon and air. Official reviewer: Dr. M. Šeporaitis (LEI)
11.20-11.40	J. Talubinskas, G. Miliauskas (Kaunas University of Technology, Lithuania). Liquid hydrocarbons droplet heating and evaporating process numerical research. Official reviewer: Dr. R. Pabarčius (LEI)
11.40-12.00	A. Tonkonogovas, A. Stankevičius (Lithuanian Energy Institute, Lithuania). A new approach to evaluating response of the turbine gas meters. Official reviewer: Dr. Habil. S. Šinkūnas (KTU)
12.00-12.20	J. Urbanavičius (Vilnius University, Lithuania). Why EU environmental law is relevant for the energy specialists? Official reviewer: Dr. I. Konstantinavičiūtė (LEI)
12.20-12.40	B. Jokšas (Lithuanian Energy Institute, Lithuania), I. Žutautaitė (Vytautas Magnus University, Lithuania). Energy critical infrastructure assessment methods. Official reviewer: Dr. N. Listopadskis (KTU)
12.40-13.00	J. L. Konstantinavičienė (Kaunas University of Technology, Lithuania). Issues related to an extensive use of renewable energy sources in Lithuania. Official reviewer: Dr. A. Pažeraitė (LEI)

13.00-13.20 Coffee break

Section A3 (Main hall)
Chairman: dr. Diana Meilutyte-Barauskienė
Final discussion and closure

13.20-14.20



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SECTION C

8. DEGIMO IR PLAZMINIU PROCESU TYRIMAI
INVESTIGATIONS OF COMBUSTION AND PLASMA PROCESSES
Section C1 (Library)
Chairman: Tadas Kaliatka

9.00-9.20	M. Valantinavičius, T. Vonžodas (Lithuanian Energy Institute, Lithuania). Proximate and elemental analysis of Solid biofuel and their influence to combustion process. Official reviewer: Dr. I. Kliopova (KTU)
9.20-9.40	A. G. Chmielewski, S. Witman, A. Pawelec (Institute of Nuclear Chemistry and Technology, Poland). Radiation induced plasma technology in environmental protection. Official reviewer: Dr. V. Grigaitienė (LEI)
9.40-10.00	R. K. Vafin, K. N. Ramazanov (Ufa State Aircraft Engineering University, Russia). Effect of crossed electric and magnetic fields on ion nitriding in a glow discharge. Official reviewer: Dr. D. Milčius (LEI)
10.00-10.20	V. I. Ignatenko, S.I. Shabunja, V. V. Martynenko (A. V. Luikov Heat and Mass Transfer Institute, Belarus). Development of algorithms for simulation of diffusion combustion of steel, and recovery of the diffusion coefficient of oxygen in the iron oxide layer. Official reviewer: Dr. R. Navakas (LEI)
10.20-10.40	V. V. Leschevich, O. G. Penayzkov (A. V. Luikov Heat and Mass Transfer Institute, Belarus). Auto-ignition delay time measurements of hydrogen-air mixtures at intermediate temperatures in rapid compression machine.

10.40-11.00 Coffee break

8. DEGIMO IR PLAZMINIU PROCESU TYRIMAI/INVESTIGATIONS OF COMBUSTION AND PLASMA PROCESSES
7. NANOMOKSLAI IR NANOTECHNOLOGIJOS, DAUGIAFUNKCIU MEDŽIAGU TYRIMAI/NANOSCIENCES AND NANOTECHNOLOGIES,
INVESTIGATIONS ON MULTIFUNCTION MATERIALS
Section C2 (Library)
Chairman: Darius Laurinavicius

11.00-11.20	A. Y. Maturana, J. D. Pagliuso (University of Sao Paulo, Brazil). Swirl burner for crude and technical glycerines and other unconventional fuels. Official reviewer: Dr. N. Striūgas (LEI)
11.20-11.40	M. Miliška, R. Kęželis, V. Valinčius (Lithuanian Energy Institute, Lithuania). Heat transfer in the plasma-chemical reactor designed for ceramic materials conversion into fibre. Official reviewer: Dr. B. Abakevičienė (KTU)
11.40-12.00	A. Tamošiūnas, P. Valatkevičius, V. Grigaitienė, V. Valinčius (Lithuanian Energy Institute, Lithuania). Conversion of propane using atmospheric thermal water vapour plasma. Official reviewer: Dr. D. Martuzevičius (KTU)
12.00-12.20	A. Saliamonas, N. Striūgas (Lithuanian Energy Institute, Lithuania). Review of current technologies and achievements in industrial gasification field. Official reviewer: Dr. V. Grigaitienė (LEI)
12.20-12.40	V. Gurskienė, A. Šlančiauskas (Lithuanian Energy Institute, Lithuania). Analysis of thermal destruction of charcoal by CO ₂ gas. Official reviewer: Dr. V. Grigaitienė (LEI)
12.40-13.00	A. Sutka, G. Mezinskis (Riga Technical University, Latvia). Gas sensitivity of excess-iron Ni-Zn ferrite. Official reviewer: Dr. L. Marcinauskas (LEI)

13.00-13.20 Coffee break

Section A3 (Main hall)
Chairman: dr. Diana Meilutytė-Barauskienė
Final discussion and closure

13.20-14.20



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SECTION D

7. NANOMOKSLAI IR NANOTECHNOLOGIJOS, DAUGIAFUNKCINIŲ MEDŽIAGŲ TYRIMAI

NANOSCIENCES AND NANOTECHNOLOGIES, INVESTIGATIONS ON MULTIFUNCTION MATERIALS

Section D (Museum)

Chairman: Mantas Povilaitis

9.00-9.20	A. Brokāns (Latvia University of Agriculture, Latvia). Research of dol effects in timber elements in bending. Official reviewer: Dr. K. Ukalbergienė (KTU)
9.20-9.40	S. M. Danilova-Tretiak, V. L. Dragun, L. E. Evseeva, V. G. Leschenko (A. V. Luikov Heat and Mass Transfer Institute, Belarus). Investigation of composite thermal insulating materials like “microspheres – binding component”. Official reviewer: Dr. V. Kveselis (LEI)
9.40-10.00	A. Linarts, J. Zavickis, M. Knite (Institute of Technical Physics, Latvia). Entirely hyperelastic pressure sensor system. Official reviewer: Dr. R. Levinskas (LEI)
10.00-10.20	D. Petrušionis, T. Žukauskas (Vilnius University, Lithuania). Broadband impedance spectroscopy of $\text{Li}_{2.2}\text{Ti}_{1.7}(\text{PO}_4)_3$ Li^+ ion conducting ceramic. Official reviewer: Dr. B. Abakevičienė (KTU)
10.20-10.40	A. Putnina, S. Kukle (Riga Technical University, Latvia), J. Gravitis (Latvian State Institute of Wood Chemistry, Latvia). Morphological and structural characteritation of steam-exploited hemp fibres. Official reviewer: Dr. R. Kalpokaitė-Dičkuvienė (LEI)