

Conference programme

May 29, 2014



Registration

8.30-9.00

Morning session



Main Hall

Chairman: DR. VIKTORIJA BOBINAITĖ/
DR. DIANA MEILUTYTĖ-LUKAUSKIENĖ

9.00-9.20	Welcome
9.20-9.40	Managing director Mr. Linas Gipiškis (UAB Hnit-Baltic, Lithuania). GIS in Energy Supply Chain Management.
9.40-10.00	Prof. Dr. Habil. Vidmantas Jankauskas (Vilnius Gediminas Technical University, Lithuania). EU Energy Policy: the Latest Developments.
10.00-10.20	Dr. Gaidis Klavs, Dr. Janis Reķis (Institute of Physical Energetics, Latvia). Modeling of Energy System Development: 2030 Climate and Energy Goals in Latvia.

Coffee break

10.20-11.20

Parallel sessions (A, B, C):

A section (Main Hall)

Smart Energy Networks

Chairman: DR. VIKTORIJA BOBINAITĖ

11.20-11.40	V. Jurkans (Riga Technical University, Latvia), J. Blums (Institute of Technical Physics, Riga Technical University, Latvia). Impact of PELTIER element supplied power characteristics on short term cooling performance. <i>Reviewer: Dr. Žilvinas Nakutis</i>
11.40-12.00	L. Grackova (Riga Technical University, Latvia), I. Oleinikova, G. Klavs (Institute of Physical Energetics, Latvia). Role of electrical vehicles for improvement of electrical networks efficiency. <i>Reviewer: Dr. Sigitas Kadiša</i>
12.00-12.20	Y. K. Bhatshvar, H. D. Mathur (Department of Electrical and Electronics Engineering, India). Inter-area oscillation control with super conducting magnetic energy storage in thermal-hydro power system using optimized intelligent controller. <i>Reviewer: Dr. Žilvinas Nakutis</i>
12.20-12.40	A. Pensini (Technical University of Denmark and Lawrence Berkeley National Laboratory, USA), A. Mammoli (University of New Mexico, USA). Feasibility of optimizing large utility electricity customers on a distribution feeder. <i>Reviewer: Dr. Arturas Klementavičius</i>

B section (AK-202)
Hydrogen and Fuel Cell
Global Change and Ecosystems
Investigations in the Fields of Thermal Physics, Fluid Mechanics and Metrology
Chairman: DR. SVETLANA DANILOVA-TRETIK

11.20-11.40	M. Urbonavičius, D. Milčius (Lithuanian Energy Institute, Lithuania). Hydrogen generation from reaction between plasma activated aluminum powder and water. <i>Reviewer: Dr. Giedrius Laukaitis</i>
11.40-12.00	M. Ruduks, A. Lešinskis (Latvia University of Agriculture, Latvia). Generation of a typical meteorological year for Alūksne, Latvia. <i>Reviewer: Dr. Justas Kažys</i>
12.00-12.20	P. S. Grinchuk, N. I. Stetukevich (A. V. Luikov Heat and Mass Transfer Institute, Belarus). Minimum of effective thermal conductivity coefficient in fibrous materials at high temperatures: theoretical explanation of experimental results. <i>Reviewer: Dr. Robertas Poškas</i>
12.20-12.40	M. Drūlia (Lithuanian Energy Institute, Lithuania). The relation between condensation and the peculiarities of water physical properties.

C section (Library)
Renewable Energy Sources
Chairman: DARIUS LAURINAVIČIUS

11.20-11.40	L. Murauskaitė (Lithuanian Energy Institute, Lithuania). Interaction between district heating producers and consumers: the case of the use of large-scale renewable energy. <i>Reviewer: Dr. Česlovas Christauskas</i>
11.40-12.00	I. Pučka (Latvia University of Agriculture, Latvia), D. Lazdiņa (Latvian State Forest Research Institute "Silava", Latvia). Radial growth changes in SALIX CAPREA L. and SALIX ALBA L. stands. <i>Reviewer: Dr. Marius Aleinikovas</i>
12.00-12.20	I. Ališauskaitė-Šeškienė (Lithuanian Energy Institute, Lithuania). Renewable energy sources technology assessment and promotion. <i>Reviewer: Dr. Saulė Milčiuvienė</i>
12.20-12.40	A. Kalnacs, J. Kalnacs, A. Mutule (Institute of Physical Energetics, Latvia), V. Entins (LLC „Environment, Bioenergetics and Biotechnology Competence centre”, Latvia). Ways to increase the efficiency of hydrokinetic devices and their evaluation. <i>Reviewer: Dr. Jūratė Kriaučiūnienė</i>



Lunch
12.40-13.40



A section (Main Hall)
Renewable Energy Sources
Chairman: DR. VIKTORIJA BOBINAITĖ

13.40-14.00	M. Valantinavičius, M. Praspaliauskas (Lithuanian Energy Institute, Lithuania). Heavy metal contaminated sewage sludge co-gasification of woody biomass.
14.00-14.20	S. Alyokhina, O. Senetskyi (A. N. Podgorny Institute for Mechanical Engineering Problems of the National Academy of Sciences, Ukraine). The use of turbines that work on organic rankine cycle for small enterprises. <i>Reviewer: Dr. Giedrius Šiupšinskas</i>

14.20-14.40	N. Urbonas, A. Kanapickas (Vytautas Magnus University, Lithuania). Analysis of the impact of climate change on wind energy resources. <i>Reviewer: Dr. Mantas Marčiukaitis</i>
14.40-15.00	P. Pikk, A. Annuk (University of Life Sciences, Estonia). PVT cooling and hot water solar fraction in northern latitudes. <i>Reviewer: Dr. Rolandas Jonynas</i>

B section (AK-202)

Energy Efficiency and Reliability

Chairman: ANDRIUS TAMOŠIŪNAS

13.40-14.00	A. A. Brin (A. V. Luikov Heat and Mass Transfer Institute, Belarus). Optimization of the mechanical draft cooling tower performance. <i>Reviewer: Dr. Violeta Motuzienė</i>
14.00-14.20	G. Frīdenbergs, A. Lešinskis (Riga Technical University, Latvia). Experimental stand device modeling for IEAC thermal performance study. <i>Reviewer: Dr. Karolis Banionis</i>
14.20-14.40	S. C. Nwanya (University of Nigeria, Nigeria), V. Ekechukwu (National Universities Commission, Nigeria). Energy efficiency and carbon footprint for the brewery industry in Nigeria. <i>Reviewer: Dr. Dalius Tarvydas</i>
14.40-15.00	T. Iešmantas, R. Alzbutas (Lithuanian Energy Institute, Lithuania). Bayesian methodology for fusion plant reliability data analysis. <i>Reviewer: Dr. Vytautas Janilionis</i>

C section (Library)

Knowledge for Energy Policy Making

Chairman: LINA MURAUŠKAITĖ

13.40-14.00	Z. Gachechiladze (Technical University of Georgia, Georgia), I. Pirveli (International School of Economics at TSU, Georgia), N. Sumbadze (Tbilisi State University, Georgia). Strategic planning of sustainable energy development for Georgia. <i>Reviewer: Dr. Vaclovas Kveselis</i>
14.00-14.20	J. Lunytė (Mykolas Romeris University, Lithuania). EU energy: security in unity. <i>Reviewer: Dr. Saulė Milčiuvienė</i>
14.20-14.40	B. Jokšas (Lithuanian Energy Institute, Lithuania), I. Žutautaitė (Vytautas Magnus University, Lithuania). Gas supply system criticality assessment.
14.40-15.00	S. Zēverte-Rivža (Riga Aeronautical Institute, Latvia). Political measures in promotion of biogas production in Latvia.

Coffee break

15.00-15.20

A section (Main Hall)

Knowledge for Energy Policy Making

Chairman: DR. VIKTORIJA BOBINAITĖ

15.20-15.40	J. Juozaitis (Vytautas Magnus University, Lithuania). Possibilities to use Lithuania's membership in the international organizations as an instrument in neutralizing the threats to state's energy security. <i>Reviewer: Dr. Inga Konstantinavičiūtė</i>
15.40-16.00	O. Ruksans, I. Oleinikova (Riga Technical University, Latvia). Electricity market integration and monitoring. <i>Reviewer: Dr. Vidas Lekavičius</i>
16.00-16.20	J. Paškevičius (Vytautas Magnus University, Lithuania). The energy charter process. <i>Reviewer: Dr. Inga Konstantinavičiūtė</i>

16.20-16.40

N. Sumbadze (Tbilisi State University, Georgia). The perspectives of the South Caucasus countries accession to the EU energy community.

B section (AK-202)
Renewable Energy Sources
Chairman: TADAS KALIATKA

15.20-15.40

B. Butkutė, J. Cesevičienė, E. Norkevičienė (Lithuanian Research Centre for Agriculture and Forestry, Lithuania). Development of low-cost and rapid method for the evaluation of organic and inorganic components in switchgrass biomass.

Reviewer: Dr. Eugenija Farida Dzenajavičienė

15.40-16.00

K. Meile, A. Zhurish, B. Spince (Latvian State Institute of Wood Chemistry, Latvia). Periodate oxidation for the determination of levoglucosan and total sugars in pyrolysis liquids.

Reviewer: Dr. Nerijus Striūgas

16.00-16.20

G. Gecevičius, M. Marčiukaitis (Lithuanian Energy Institute, Lithuania). Technical and economic evaluation of wind turbines in different regions of Lithuania.

Reviewer: Dr. Irina Kliopova

16.20-16.40

P. Seniūnas (Lithuanian Energy Institute, Lithuania). Latest review of RES use in Lithuania's energy sector.

C section (Library)
Renewable Energy Sources
Energy Efficiency and Reliability
Chairman: DR. ALEKSANDRS LVOVS

15.20-15.40

J. Guilbaud (UCL Energy Institute, United Kingdom). Economic assessment of hybrid solar/battery power generation system for the mining industry.

Reviewer: Dr. Egidijus Norvaiša

15.40-16.00

A. V. Lozhchnik, V. V. Sauchyn, A. N. Nikanchuk, G. V. Dolhonenka (A. V. Luikov Heat and Mass Transfer Institute, Belarus). Technology of rubber waste treatment.

Reviewer: Dr. Nerijus Striūgas

16.00-16.20

K. Vagoliņš (Riga Technical University, Latvia). Using straw for high efficiency district heating systems.

Reviewer: Dr. Eugenija Farida Dzenajavičienė

16.20-16.40

M. Yu. Liakh, A. P. Tsitovich, A. A. Khartonik (A. V. Luikov Heat and Mass Transfer Institute, Belarus). Experimental and numerical investigation of the thermal conditions of plazma lamp.

Reviewer: Dr. Viktorija Grigaitienė



Conference dinner (canteen)

17.00



Conference programme

May 30, 2014



Registration

8.30-9.00

Parallel sessions (A, B):

A section (Main Hall) Knowledge for Energy Policy Making Nuclear Fission and Radiation Protection Chairman: DR. VIKTORIJA BOBINAITĒ

9.00-9.20	A. Ļvovs (Institute of Physical Energetics, Latvia). Study on customer costs of reliability as key prerequisite for power supply reliability level performance-based regulation. <i>Reviewer: Dr. Audrius Jonaitis</i>
9.20-9.40	A. Obushevs, I. Oleinikova (Institute of Physical Energetics, Latvia). Transmission expansion planning considering electricity market and integration of renewable generation. <i>Reviewer: Dr. Mindaugas Ažubalis</i>
9.40-10.00	S. Alyokhina, A. Feshchenko (Kharkiv Polytechnic Institute of National Technical University, Ukraine). The definition of maximum temperature in ventilated container with spent nuclear fuel. <i>Reviewer: Dr. Raimondas Pabarčius</i>
10.00-10.20	A. Šutas (Lithuanian Energy Institute, Lithuania). Analysis of the fuel rods degradation in Ignalina NPP spent fuel pools in case of loss of coolant accident. <i>Reviewer: Dr. Grigorijus Duškesas</i>

B section (AK-202) Materials Sciences and Technology Chairman: DR. ANTON BRIN

9.00-9.20	R. Vessart, T. Unt, A. Mere, M. Krunks (Tallinn University of Technology, Estonia). Structural and electrical properties of P-type NiO thin films deposited by spray pyrolysis. <i>Reviewer: Dr. Darius Milčius</i>
9.20-9.40	V. V. Sauchyn, A. V. Lozhachnik, Hr. V. Dalhonenka, D. V. Skamarokhau (A. V. Luikov Heat and Mass Transfer Institute, Belarus). Plasma system for ash residues processing. <i>Reviewer: Dr. Viktorija Grigaitienė</i>
9.40-10.00	I. Gromyko, T. Dedova, M. Krunks, V. Mikli, T. Unt, I. Oja Acik, A. Mere (Tallinn University of Technology, Estonia). Zinc oxide rods on different TCO substrates and seed layers by electrochemical deposition. <i>Reviewer: Dr. Darius Milčius</i>
10.00-10.20	D. V. Solovej, E. V. Batirev, S. A. Filatov, G. S. Kuczynski (A.V. Luikov Heat and Mass Transfer Institute, Belarus). Thermal transformation and Raman structural investigation of the nanoporous tin oxide. <i>Reviewer: Dr. Liutauras Marcinauskas</i>

Coffee break

10.20-10.40

A section (Main Hall) Materials Sciences and Technology Chairman: DR. VIKTORIJA BOBINAITĖ

10.40-11.00	A. Kiyantsa, S. Gaidukov, E. Zukulis, I. Juhneva (Riga Technical University, Latvia). Preparation and properties of polyethylene oxide composites. <i>Reviewer: Dr. Liutauras Marcinauskas</i>
11.00-11.20	Š. Varnagiris, D. Milčius (Lithuanian Energy Institute, Lithuania). Ageing and surface characteristics investigation of expanded polystyrene treated in air and argon plasma. <i>Official reviewer: Dr. Giedrius Laukaitis</i>
11.20-11.40	P. S. Grinchuk, S. M. Danilova-Tretiak, N.I. Stetukevich (A.V. Luikov Heat and Mass Transfer Institute). Force chains as a main mechanism of thermal conductivity of granular matter under stress. <i>Official reviewer: Dr. Regina Kalpokaitė-Dičkuvienė</i>
11.40-12.00	G. S. Ahremkova, G. S. Kuchinski, S. A. Filatov, O. S. Filatova (A.V. Luikov Heat and Mass Transfer Institute, Belarus). Novel nanoporous carbon graphitized aerogel for sorbents and catalyst carriers.

B section (AK-202) Investigations of Combustion and Plasma Processes Chairman: VASIL SAUSHYN

10.40-11.00	A. Tamošiūnas, P. Valatkevičius, V. Grigaitienė, V. Valinčius (Lithuanian Energy Institute, Lithuania). Diagnostics of the atmospheric pressure thermal arc plasma by enthalpy probe method. <i>Official reviewer: Dr. Aleksandras Iljinas</i>
11.00-11.20	A. Saliamonas, N. Striūgas, R. Navakas (Lithuanian Energy Institute, Lithuania). Spectroscopic analysis of syngas generated from wooden pellets addition to natural gas combustion. <i>Official reviewer: Dr. Habil. Liudvikas Pranevičius</i>
11.20-11.40	S. I. Dmitriev, P. S. Grinchuk, N. V. Pavljukevich (A. V. Luikov Heat and Mass Transfer Institute, Belarus). Carbon black production from different types of raw material: Experiments and mathematical modelling. <i>Official reviewer: Dr. Robertas Navakas</i>
11.40-12.00	R. Paulauskas, A. Džiugys, N. Striūgas (Lithuanian Energy Institute, Lithuania). Experimental investigation of wood pellet shrinking during pyrolysis. <i>Official reviewer: Dr. Habil. Liudvikas Pranevičius</i>
12.00-12.20	K. Zakarauskas, N. Striūgas (Lithuanian Energy Institute, Lithuania). Experimental investigation of additional reforming process of syngas using biomass char. <i>Official reviewer: Dr. Linas Miknius</i>

Coffee break

12.20-12.40



Main Hall Closure of the Conference, final discussion 12.40-13.40

Excursion 14.00 (from LEI)