

Section „Environmental Engineering”

Scientific committee:

D.Blumberga,	RTU
J.Hetland,	SINTEF, Norway
L.Mez,	FUB, Germany
L.Nilsson,	KTH, Sweden
V.Vares,	TTU, Estonia
M.Valdma,	TTU, Estonia
I. Veidenbergs,	RTU
M.Kļaviņš,	LU, Latvia
A.Blumberga,	RTU
V.Martinaitis,	VTU, Lithuania
J.Rekstad,	University of Oslo, Norway
B.Sørensen,	RU, Denmark
K.Valters,	RTU
G.Bažbauers,	RTU

14 October 2009, at 9.00
Faculty of Electrical and Power Engineering,
Kronvalda Blv. 1, room 21

Chair: Prof. Dagnija Blumberga, RTU

9.00 – 9.15 S.N.Kalniņš, D.Blumberga (RTU)

Application of evaluation method to Latvia's climate change policy

9.20 – 9.35 D.Blumberga, G.Kuplais, I.Veidenbergs, E.Dāce, J.Gučča (RTU)

Modelling of the installed capacity of landfill power stations

9.40 – 9.55 I.Dzene (RTU), F.Bodescu (University of Bucharest, CESEC, Romania)

Evaluation of biomass availability at regional level

10.00 – 10.15 E.Vīgants, I.Veidenbergs, D.Blumberga, F. Romagnoli(RTU)

The potential cogeneration thermal capacity choice for heat source group

10.20 – 10.35 D.Markova, G.Bažbauers, K.Valters (RTU)

Optimization of ethanol autothermal reforming process with chemical equilibrium calculations

10.40 – 10.55 I.Barmina, I.Bucenieks, M.Zaķe (University of Latvia), M.Gedrovičs, V.Kriško, (RTU)

The magnetic field effect on the swirling combustion of renewable fuel

11.00 – 11.30 Coffee break

11.30 – 11.45 A.Boloņina, C.Rochas, D.Blumberga (RTU)

Experimental analysis of thermal stratification in a heat storage tank using stratification pipe

11.50 – 12.05 D.Jaunzems, I.Veidenbergs (RTU)

Influence of thermo-dynamic properties and thermal inertia of the building envelope on building cooling load

12.10 – 12.25 A.Kamenders, A.Blumberga (RTU)

Multi-objective optimization approach for improving performance of building

12.30 – 12.45 G.Žogla, D.Zahare, A.Blumberga, A.Kamenders (RTU)

Influence of heat gains on typical apartment house heat energy consumption in Latvia, simplified calculation method

15 October 2009, at 12.00
Faculty of Electrical and Power Engineering,
Kronvalda Blv. 1, room 36

Chair: Prof. Dagnija Blumberga, RTU

12.00 – 12.15 J.Brizga, I.Kudriņickis (University of Latvia)
Household climate impact in Latvia: measuring carbon footprint

12.20 – 12.35 J.Simanovska, G.Bažbauers, K.Valters (RTU), M.Šteina (University of Latvia)
The environmental impacts of a desktop computer: influence of choice of functional unit, system boundary and user behaviour

12.40 – 12.55 F.Romagnoli, F.Fraga Sampaio, D.Blumberga (RTU)
Life cycle assessment of Daugavgriva waste water treatment plant

13.00 – 13.15 J.Simanovska, G. Bažbauers, K.Valters (RTU)
Development set of criteria as an eco-design tool for the evaluation of environmental impact of material choice

13.20– 14.30 *Lunch break*

14.30 – 14.45 B. Cēbere, E. Faltiņa, N.Zelčāns, D.Kalniņa (RTU)
Toxicity tests for ensuring successful industrial wastewater treatment plant operation

14.50 – 15.05 E. Dāce, S.Valtere (RTU)
Reduction of coal dust concentration in the air by using renewable resources as dust suppressants

15.10 – 15.25 K. Siliņš, A.Žandeckis, S.Valtere (RTU)
Determination of solid particle concentration at coal transshipment site

15.30 – 15.45 A.Zandberga, L.Lieplapa, D.Blumberga (RTU)
The analysis of noise level on Saulkrasti bypass

15.50 – 16.05 A.Volkova (RTU), E.Latōšev, A.Siirde (Tallinn University of Technology, Estonia)
Small-scale CHP potential in Latvia and Estonia