



**RĪGAS TEHNISKĀS UNIVERSITĀTES  
54. STARPTAUTISKĀS ZINĀTNISKĀS KONFERENCES**

**PROGRAMMA**

Rīga, 2013. gada 14. – 16. oktobris

**RIGA TECHNICAL UNIVERSITY  
54<sup>th</sup> INTERNATIONAL SCIENTIFIC CONFERENCE**

**PROGRAMME**

14 – 16 October 2013, Riga

**17:10 – 17:25**

**BROKEN STIFFNESS CURVES BIFURCATION SYSTEMS ANALYSIS**

E. Shilvans, Riga Technical University, Latvia

**17:25 – 17:40**

**STUDIES OF THE FRICTION ON INCLINED VIBRATING PLANE**

T. Novohatska, I. Vjaters, Riga Technical University, Latvia

*17:40 – 18:00 Discussion*

*Thursday, 25 October*

*Faculty of Transport and Mechanical Engineering,  
Riga, Ezermalas iela 6k, Room 206*

**Section**

**Engineering, Mechanics and Mechanical Engineering**

Section Chair: Prof. J. Vība, Prof. J. Rudzītis, Riga Technical University, Latvia

**Subsection “Heat Power and Thermal Physics”**

Subsection Chair: Dr. hab. sc. ing. Daniels Turlajs, Riga Technical University, Latvia

Scientific Committee:

|                |                   |                                 |        |
|----------------|-------------------|---------------------------------|--------|
| J. Kuzma-Kičta | Dr. sc. ing.      | Moscow Power Institute          | Russia |
| J. Nagla       | Dr. sc. ing.      | Riga Technical University       | Latvia |
| M. Rubīna      | Dr. sc. ing.      | Riga Technical University, REA  | Latvia |
| D. Rusovs      | Dr. sc. ing.      | Riga Technical University       | Latvia |
| S. Jaundālders | Dr. sc. ing.      | Riga Technical University       | Latvia |
| A. Cers        | Dr. sc. ing.      | Riga Technical University       | Latvia |
| D. Turlajs     | Dr. hab. sc. ing. | Riga Technical University       | Latvia |
| N. Zeltiņš     | Dr. hab. sc. ing. | Institute of Physical Energetic | Latvia |

**14:00 – 14:20**

**THE PRESENT SITUATION AND PERSPECTIVITIES OF NUCLEAR POWER  
ENERGETIC IN EU**

V. Gavars, O. Linkevičs, JSC LATVENERGO, Latvia

**14:20 – 14:40**

**METHODOLOGY OF ENERGY POLICY ELEMENTS ANALYSIS FOR SUSTAINABLE  
ENERGY PLANNING AT NATIONAL, REGIONAL AND COUNTRY LEVEL**

V. Zēbergs, N. Zeltiņš, I. Niedrīte, Institute of Physical Energetic, Latvia

**14:40 – 15:00**

**IMPROVEMENT OF THE EFFICIENCY OF HEAT GENERATORS**

N. Zeltiņš, Institute of Physical Energetic, Latvia

A. Cers, JSC LATVENERGO, Latvia

D. Turlajs, Riga Technical University, Latvia

V. Barkāns, Sea academy of Latvia, Latvia

**15:00 – 15:20**

**PROPOSALS OF USING WATER-LOOP HEAT PUMP SYSTEMS FOR  
ENERGY SAVING IN AIR CONDITIONING SYSTEMS**

B. Petrovs, N. Zeltiņš, A. Semeņako, Institute of Physical Energetic, Latvia

**15:40 – 15:40**

**THE PROGNOSIS OF DEMAND IN ENERGY RESOURCES IN LATVIA**

S. Vostrikovs, D. Turlajs, Riga Technical University, Latvia

*15:40 – 16:00 Break*

**16:00 – 16:20**

**AN INVESTIGATION OF HEAT FLOWS IN HEAT PUMPS**

V. Barkāns, Sea Academy of Latvia, Latvia

A. Cers, G. Turlajs, Riga Technical University, Latvia

**16:20 – 16:40**

**COMPARISON OF TOTAL LIFE TIME COSTS FOR PREINSULATED PIPE DH SYSTEMS**

M. Krestina, I. Bekmanis, Riga Technical University, Latvia

**16:40 – 17:00**

**CALCULATION METHOD OF DH PIPELINE SECTION HEAT LOSSES, CORRESPONDING TO PIPE PRODUCTION METHOD AND AGEING OF PIPELINE NOVĒCOŠANAI**

Ž. Videniece, AS Rīgas Siltums, Latvia

I. Bekmanis, Riga Technical University, Latvia

**17:00 – 17:20**

**THE IMPROVEMENT OF BOILERS EFFICIENCY BY LATENT HEAT UTILIZING OF FLUE GASSES**

R. Veselauskis, G. Turlajs, J. Pāvuls, Riga Technical University, Latvia

*17:20 – 17:40 Coffee break*

**17:40 – 18:00**

**AN ANALYSIS OF HEAT PUMPS TESTING EQUIPMENT**

N. Zeltiņš, D. Turlajs, S. Jaundālders, Riga Technical University, Latvia

M. Konons, SIA „Eco-one”, Latvia

**18:00 – 18:20**

**ĢEOTERMĀLO SILTUMSŪKŅU ĀRĒJO KOLEKTORU APRĒĶINA METODIKAS IZSTRĀDE UZDEVUMU SADALĒ**

M. Kānītis, E. Kampuss, N. Zeltiņš, S. Jaundālders, Riga Technical University, Latvia

**18:20 – 18:40**

**AN EXERGETIC ANALYSIS OF HEAT PUMPS**

P. Stanka, D. Rusovs, S. Jaundālders, Riga Technical University, Latvia

**18:40 – 19:00**

**SEMI-EMPIRICAL CALCULUS METHODS OF BRAZED PLATE HEAT EXCHANGERS**

Ļ. Paršikova, D. Rusovs, S. Jaundālders, Riga Technical University, Latvia

**19:00 – 19:20**

**AN ANALYSIS OF HEAT EXCHANGERS EFFICIENCY BY MEANS OF INDIRECT EXPERIMENTS**

O. Krickis, G. Boloņins, JSC LATVENERGO, Latvia

S. Jaundālders, Riga Technical University, Latvia