

Conference „Innovative Approaches and Sustainable Technology”

Conference is dedicated to 85th anniversary of oil shale processing outset in Estonia and 50th anniversary of oil shale scientific researches start in Kohtla-Järve

Jõhvi Concert Hall , **27th April, 2010**

PURPOSE

To make survey of innovative and sustainable technologies and success stories of their employment in power engineering, oil shale processing and other fields, to consider a promotional role of education on the issue. To discuss in common and to share one's experience how to integrate sustainable technologies, education, ecology and economic activity to help in creation of conception of ecological world as well as to advance to sustainability by using new technologies.

AGENDA

9.15-10.00 Registration

10.00-10.10 Greetings - Riho Breivel, Ida-Virumaa County Elder

I session "Energy Saving and New Technologies "

Moderator **Igor Kond**, Eesti Energia Narva Oil Plant AS, Chairman of the Board

Presentations:

10.10-10.25 Indrek Aarna, Eesti Energia AS, Head of Research and Development Department

Innovative solutions in shale oil production

10.25-10.40 Uuve Kirso, NICPB Professor

Oil shale ash, a hazardous waste or co-product and valuable material for different applications?

10.40-10.55 Andres Siirde, TUT, Head of Chair, Thermal Power Equipment

Competitiveness of shale oil production in a new system of greenhouse gases sales to be enforced in 2013-2020

10.55-11.10 Lembit Nei, Ph.D, TUT Tartu College, director

Sewage sludge –initial rich nutrient material for compost or hazardous residue?

11.10-11.25 Kent Bertilsson, Ph.D, Mid Sweden University, Head of Electronics Design Division

Research and development of high frequency power converters

11.25-11.55 Discussion (Indrek Aarna, Uuve Kirso, Andres Siirde, Lembit Nei, Kent Bertilsson)

11.55-12.00 Moderator's summary

12.00-13.00 Lunch

II session "Success stories in the Field of Engineering and Technology"

Moderator **Jaanus Purga**, VKG AS, Director for Development, Member of the Board

Presentations:

13.00-13.15 Timo Tatar, Eesti Energia AS, Head of Department of Power Generation Development

Eesti Energia power and heat generation development

- 13.15-13.30 **Ilmar Jõgi**, Eesti Energia Kaevandused AS, Chairman of the Board
Large - Estonia project as a new level of effectiveness and risks management
- 13.30-13.45 **Robert Karpelin**, Kiviõli Keemiatööstuse OÜ, managing director
About experience of oil shale mining by WIRTGEN Surface Miner at North-Kiviõli open-cast
- 13.45-14.00 **Jevgeni Nikitin, Valentin Vassiljev**, Saint-Petersburg State University of Engineering and Economics
Shale oil - alternative raw material for processing
- 14.00-14.15 **Aivar Surva**, Mäetaguse parish elder; **Jana Pavlenkova** Mäetaguse parish government advisor for development
Heating system design by employment of the mine drainage water warmth in Mäetaguse rural district
- 14.15-14.45 **Discussion** (Timo Tatar, Ilmar Jõgi, Robert Karpelin, Jevgeni Nikitin, Aivar Surva)
- 14.45-14.50 **Moderator's summary**
- 14.50-15.15 **Coffee -pause**

III session "Promotional Role of Higher Education in Development & Use of Innovative Solutions"

Moderator **Ingo Valgma**, TUT Director of Mining Institute

Presentations:

- 15.15-15.30 **Rein Vaikmäe**, TUT, Vice-rector for Research
Role of university in national innovative system
- 15.30-15.45 **Priit Ploompuu**, Eesti Energia Shale Oil Production Enefit-280 Project Director
Eesti Energia Shale Oil Production Future Plans
- 15.45-16.00 **Anneki Teelahk**, Eesti Energia Kaevandused AS, Personnel manager
Innovation appears in favourable conditions
- 16.00-16.15 **Ivan Sadchikov**, Saint-Petersburg State University of Engineering and Economics
Innovative Management as a Priority Direction of Development of Saint-Petersburg State University of Engineering and Economics (on the example of the Chair of Economics and Management in Petrogaschemical Complex)
- 16.15-16.30 **Reelika Mägi**, NICPB/TUT magistrant; **Ekaterina Panova**, NICPB/University of Tartu, PhD student
Some innovative approaches in environmental analysis of oil shale wastes and discharges
- 16.30-17.00 **Discussion** (Rein Vaikmäe, Priit Ploompuu, Anneki Teelahk, Ivan Sadchikov, Reelika Mägi)
- 17.00-17.05 **Moderator's summary**
- 17.05-17.15 **Summary of the Day**

Working languages: Estonian, Russian, English

Registration: <http://www.vk.edu.ee/konverentsid> until 20th April 2010

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