

Preliminary Program

3rd EFUC International Conference

Dimensions of Lithosphere

Strategies for Disposal of Nuclear Waste in Europe Geothermal Energy

Technical University of Košice, Slovak Republic
January 29-31, 2007

Monday, January 29, 2007

13:30

Opening / Welcome Address

Rector Dr. h.c. mult. Prof. Ing. Juraj Sinay, DrSc., TU Košice

Opening and Welcome Address

Minister of Economy Doc. Ing. Lubomir Jahnateck, CSc, SK
(Welcome Address)

Minister of Ecology Ing. arch. Jaroslav Izak, SK
(Welcome Address)

Major of the City of Košice Ing. Frantisek Kanpik
Welcome Address

District President (KSK) JUDr. Zdenko Trebula
Welcome Address

Musical Presentation of Collegium Technicum

14:45 – 15:00

Coffee Break

15:00 – 18:00

Plenary Session

Chair: SK (N.N.); Co-Chair: D (N.N.)

1. Plenary Lecture

The Lithosphere - Chance for the Mankind

Prof. Ing. Felix Sekula, PhD / Prof. Ing. Tobias Lazar, PhD, SK

2. Plenary Lecture

The Storage of High Radioactive Waste from the Slovak Point of View

District President Dipl.-Ing. Tibor Mikus', SK

3. Plenary Lecture

The Storage of High Radioactive Waste from the European Point of View
(Mr. Simon Webster, Head of Unit Nuclear Fission & Radiation Protection,
EC)

4. Plenary Lecture

Geothermic – Energy Source of the Future ?

Prof. Franz Peren, PhD, D

5. Plenary Lecture
Techniques for the Development of Geothermic
Prof. Ing. Pavol Rybar, PhD, SK
6. Plenary Lecture
Why Nuclear Power Plants ? There are other Solutions available !
N.N.

20:00 – 23:00 Gala Diner Hotel Slovan with Ensemble Jahodna (Male Choir and Folk Dance)

Tuesday, January 30, 2007

Session 1:

9:00 – 12:00

Chair: SK (N.N.); Co-Chair: D (N.N.)

- 9:00 -9:20 Strategies for Disposal of Nuclear Waste in Europe
J. Mikšova, L. Pospišil, L. Kučera, K. Martinek, J. Rejl, J. Slovák, SK
- 9:20-9:40 Storage of High Radioactive Nuclear Waste in Germany
Prof. Dr.-Ing. Dietmar Möller, D
- 9:40-10:00 Properties and Development of the Middle European Lithosphere: Reality and Ideas
(Prof. RNDr. Milos Suk, DrSc)
- 10:00 – 10:30 Coffee Break
- 10:30 – 10:50 State of the Art in Salt Caverns Research for Nuclear Waste Repository
(N.N.)
- 10:50 – 11:10 Gas Permeation for Dilatant Deformation of Rock Salt under Deviatoric Stress Conditions
Prof. Dr. rer. mont. Günter Pusch, D
- 11:10 – 11:30 Effects of Engineering Geology Conditions onto the Construction of Caverns for Radioactive Waste
(Doc. Ing. Jozef Kuzma)
- 11:30 – 12:00 Discussion of Presentations of Session 1
- 12:00 – 14:00 Lunch

Session 2:

14:00 – 17:30

Chair: D (N.N.); Co-Chair: CZ (N.N.)

- 14:00 – 14:20 Mining of Radioactive Raw Materials as the Origin of the Nuclear Fuel Chain
Ing. Bedřich Michálek, PhD, SK
- 14:20 – 14:40 Specific Geophysical Measures for the Selection of Nuclear Repositories
(RNDr. Jaroslav Barta, CZ)
- 14:40-15:00 Dimensions of Lithosphere in Capartic Geological Areas
L. Pospišil, J. Mikšova, M. Kovačik, SK
- 15:00 – 15:30 Coffee Break
- 15:30 – 15:50 Geomechanical Problems of an Underground Storage of Spent Nuclear Fuel and their Mathematic Modelling

- 15:50 – 16:10 Radim Blaheta, Petr Byczanski, Richard Šnuparek, Antonin Hajek
Interdisciplinary Cooperation in Searching for Optimal Underground Storage for Nuclear Waste
Doz. Ing. Juraj Durove, PhD, et al., SK
- 16:10 – 16:30 New Method for Controlling Abandonment of Reinforced Concrete beside the Background of Reduction of Nuclear Waste Volume while Demolish Nuclear Power Plants
(Molnar)
- 16:30 – 16:50 Utilization of Concrete as Construction Material in the Concept of Radioactive Waste Storing in Slovak Republic
(Doz. Ing. Igor Hudoba, PhD)
- 16:50 – 17:30 Discussion of Presentations of Session 2

Session 3:

- 14:00 – 17:30** Chair: Prof. Franz Peren, PhD; Co-Chair: SK (N.N.)
- 14:00 – 14:20 Interim Report about Research of Geothermic in Bavaria
(Dr. Hans-Joachim Bayer)
- 14:20 – 14:40 Analysis of the Geothermal Potential of the Herlianskj Geisir in the Košice Region
(Dobra)
- 14:40 – 15:00 Hungarians' first Geothermic Power Plant Pilot Project without Thermal Impact onto Lake Heviz
(Bobock)
- 15:00 – 15:30 Coffee Break
- 15:30 – 15:50 Geothermic in Poland
(N.N.)
- 15:50 – 16:10 Geothermic in Germany
(N.N.)
- 16:10 – 16:30 Geothermic in France
(N.N.)
- 16:30 – 16:50 Utilization of Thermal Energy of Mine Water from Flooded Underground Mines
(Ing. Bedřich Michálek, PhD, Ing. Daniel Holéczy, Dr.-Ing. Petr Jelinek, Doc. Ing. Arnošt Grmela, CSc, SK)
- 16:50 -17:10 General Overview of Geothermal Energy in Bulgaria
Klara Bojadgieva, Vladimar Histov, Aleksey Benderev
- 17:10 – 17:30 Discussion of Presentations of Session 3
- 20:00** State Theatre, Opera Carmen from George Bizet

Wednesday, January 31, 2007

Session 4:

- 9:00 – 12:20** Chair: SK (N.N.); Co-Chair: D (N.N.)
- 9:00 – 9:20 Monitoring and Leak Testing of WWER-440 Fuel Assemblies in Slovak wet interim spent fuel storage facility
(V. Slugeň, M. Mikloň, B. Božik, D. Važina)

9:20 – 9:40	Economic Evaluation of the Litho-Jet Method Based on the Actual Planning (Dipl.-Ing. Rolf Bielecki, PhD)
9:40 – 10:00	Hydrogen Technique as Main Energy Source of the Future ? (N.N.)
10:00 – 10:30	Coffee Break
10:30 – 10:50	Vertical Shaft Machines – State of the Art and Vision Dipl.-Ing. Peter Schmäh, Herrenknecht, D
10:50 – 11:10	Future Development of the Litho-Jet Method (Prof. Lazar/ Szertemey)
11:10 – 11:30	Investigation of a Multibarrier System for Underground Storage of Nuclear Waste Prof. Ing. Viliam Bauer, PhD, Prof. Ing. Felix Sekula, PhD, Dipl.-Ing. Sofranko PhD, SK
11:30 – 11:50	Safety Aspects in Association with Radioactivity, especially with Nuclear Waste (N.N.)
11:50 – 12:20	Panel Discussion „Košice Resolution“
12:20 – 12:30	Closing Session

Accepted Papers will be published in Acta Montanistica Slovaca