



International Workshop on
Geoenvironment and Geotechnics
 12-14 September 2005, Milos Island

Scientific Programme

Monday, 12 September 2005	
Opening Session (09:30-10:30) Chairs: A. Anagnostopoulos – Z. Agioutantis	
Welcoming addresses <i>Local Authorities, E. Voulgaris, A. Kefalas, Z. Agioutantis</i> Use of Milos bentonites for sealing purposes in Geoenvironmental and Geotechnical applications <i>D. Koch</i>	
<i>Coffee break (10:30-11:00)</i>	
Keynote Session (11:00-12:00) Chairs: A. Anagnostopoulos – Z. Agioutantis	
The importance of failure in the design process <i>M. Cambridge</i>	
Risk analysis and probabilistic modeling in geotechnical engineering <i>M. Kavvadas</i>	
Dam design / Construction / Stability (12:00-13:30) Chairs: M. Cambridge - M. Kavvadas	
A numerical simulation of the effects of swelling on concrete settlement tanks founded on swelling clay <i>Ch. Arvanitidis</i>	
Stability of tailings dams – Part I: Static loading <i>E. Sarris, G. Xiroudakis, Y. Tsompanakis, P.N. Psarropoulos</i>	
Stability of tailings dams – Part II: Dynamic loading <i>P.N. Psarropoulos, Y. Tsompanakis, Y. Karabatsos, G. Xiroudakis, E. Sarris</i>	
Elevation uncertainty within the procedure of waste sanitary landfill design. An approach through the fuzziness of geometry <i>G.A. Achilleos</i>	
<i>Light lunch (13:30-14:30)</i>	
Advanced geotechnical aspects in mining (14:30-16:30) Chairs: D. Koch - M. Pantazidou	
Instrumentation and monitoring to prevent failure <i>M. Cambridge</i>	
Rock mass classification system (GSI) misuses in problematic rocks <i>C. Steiakakis, O. Verroios</i>	

Integrated environmental investigation of a municipal landfill using modern techniques <i>P. Soupios, T. Manios, F. Vallianatos, K. Maniadakis, J.P. Makris, M. Kouli, V. Saltas, A. Sarris, N. Papadopoulos, E. Gidarakos, N. Kourgialas</i>	
Determination of a landfill structure using HVSR, SPT's & geoelectrical tomographies <i>P.M. Soupios, F. Vallianatos, I. Papadopoulos, J.P. Makris</i>	
Stiffness and strength parameters of the Ptolemais calcareous marls <i>E. Stiakakis, Z. Agioutantis</i>	
Slope stability assessment in unsaturated soils under rainfall conditions <i>V.G. Matziaris, M.D. Ferentinou, M.G. Sakellariou</i>	
Developing Fuzzy Inference Systems (FIS) for the evaluation of multiple-layer lignite deposits <i>M. Galetakis, A. Vasiliou, Ch. Roumpos, F. Pavloudakis</i>	P
<i>Coffee break (16:30-17:00)</i>	
Life cycle assessment (17:00-18:30) Chairs: A. Subbotin - P. Soupios	
LCA as a tool for ecological policy – example of Poland <i>J. Kulczycka, M. Góralczyk</i>	
Comparing investment options in a lignite deposit exploitation project <i>F. Pavloudakis, C. Roumpos, M. Galetakis</i>	
The recovery of phosphorus compounds from post-neutralisation sludge <i>K. Gorazda, Z. Kowalski, Z. Wzorek, M. Góralczyk, J. Kulczycka</i>	
LCNPV as a tool for economic efficiency comparison of new technology <i>J. Kulczycka, K. Koneczny</i>	
Environmental impact assessment of the sulfur mining activity in Oriental Carpathians <i>D.-P. Georgescu, F. Aurelian, M. Popescu, C. Popescu</i>	P
<i>Welcome reception (18:30-19:30)</i>	
Tuesday, 13 September 2005	
Mine - quarry design / Reclamation / Revegetation (09:00-11:00) Chairs: F. Pavloudakis - J. Kulczycka	
Protection of the subsurface against contamination: Expected legislation <i>M. Pantazidou</i>	
Design considerations and application in the case of active quarries Usje cement plant, Skopje <i>A. Kepeski, J. Mastoris, A. Papakostas</i>	
Quarry reclamation by means of new anaerobic energy recovery technology <i>P. Magnani, M. Magnani</i>	
Redesign aspects of lignite mine reclamation: A case study in Greece <i>M. Menegaki, D. Kaliampakos</i>	
Back calculations for the determination of strength and deformational characteristics of soils in open-pit slopes and hydrofilled structures <i>A.M. Galperin, A.Y. Panfilov</i>	

Radioactive dust pollution around the dumps of the uranium deposit <i>A. Subbotin, O. Ivantyshyna, V. Shumlyanskyy</i>	P
<i>Coffee break (11:00-11:30)</i>	
Advanced modeling and monitoring techniques (11:30-13:30) Chairs: Z. Kowalski –A. Xenidis	
Electrical resistivity tomography in urban areas: A case study in Hania, Greece <i>I. Papadopoulos, P.M. Soupios, F. Vallianatos, J.P. Makris</i>	
Surface-geophysical investigation of a landfill in Hania, Crete <i>P.M. Soupios, F. Vallianatos, I. Papadopoulos, J.P. Makris, M. Marinakis</i>	
An evaluation model of landforms visual value <i>A. Tsouchlaraki</i>	
Application of seismic methods for geotechnical site characterization <i>P.M. Soupios, C.B. Papazachos, G. Vargemezis, I. Fikos</i>	
Characterisation of Greek fly ash using Environmental SEM <i>A. Iordanidis, D. Mitrou, A. Asvesta, J. Buckman</i>	P
Mathematical simulation of casing pipes refinement from radioactive scales <i>I. Koliabina, V. Shumlyanskyy</i>	P
<i>Light lunch (13:30-14:30)</i>	
Modern remediation technologies (14:30-16:30) Chairs: R. Šňupárek - J. Mastoris	
Use of bauxite residues for the rehabilitation of abandoned surface mines <i>D. Boufounos, I. Pernientaki, D. Fafoutis, A. Xenidis, A.D. Harokopou, E. Mylona</i>	
Study of contamination migration through soft Bangkok clay <i>S. Siddiqua, U. Glawe</i>	
Evaluation of the effect of compost, EDTA and microorganisms on the removal of heavy metals and arsenic from a contaminated soil <i>K. Vaxevanidou, N. Papassiopi, I. Paspaliaris, P. Theodoratos</i>	
Investigation of porous silicates contamination with crude oil using Dielectric Spectroscopy <i>C. Anastasiadis, D. Triantis, I. Stavrakas, A. Kyriazopoulos</i>	
Mineralogical, geochemical and nutrient analysis of soils from Omalos polje -plateau, Western Crete <i>N. Lydakís – Simantiris, D. Pentari, V. Perdikatsis, E. Manutsoglu, D. Moraetis, Ch. Apostolaki</i>	
Self-purification of contaminated solutions after uranium in situ leaching <i>M. Makarenko, V. Shumlyanskyy, A. Subbotin</i>	P
<i>Coffee break (16:30-17:00)</i>	
Advances in risk assessment - Solid waste management (17:00-18:30) Chairs: C. Anastasiadis – D. Georgescu	
Environmental impacts in the Czech part of the Upper Silesian coal basin <i>R. Šňupárek, P. Martinec, B. Schejbalová</i>	
Mapping of soil contaminants using Spartan Spatial Random Fields: A comparative study <i>E. Varouchakis, D.T. Hristopulos</i>	

Use of factorial design in environmental, geotechnical and waste management experimentation – a case study <i>D. Zaharaki, K. Komnitsas</i>	
Application of dielectric spectroscopy to the detection of contamination in sandstone <i>V. Saltas, F. Vallianatos, P. Soupios, J.P. Makris, D. Triantis</i>	P
Remediation of areas affected by uranium mining activities <i>F. Aurelian, D.-P. Georgescu, M. Popescu</i>	P
Environmental impact assessment of the iron mining activity in the Occidental Carpathians <i>M. Popescu, D.-P. Georgescu, F. Aurelian, D. Curelea</i>	P
<i>Conference dinner (20:30-23:00)</i>	
Wednesday, 14 September 2005	
<i>Field trip (09:00-13:30)</i>	

(P) designates poster presentation at the end of the respective session.