

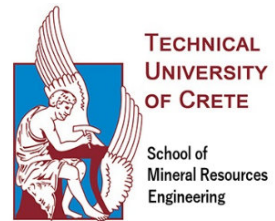


ISCSM 2018

14th International Symposium of Continuous Surface Mining
Aristotle University's Research Dissemination Center (KEDEA)

Greece, Thessaloniki, 23-26 September 2018

Program



ABB



Sunday, 23rd September 2018
GRAND HOTEL PALACE

20.00 Registration

21.00 Welcome cocktail

Monday, 24th September 2018
Aristotle University's Research Dissemination Center (KEDEA)

	Hall A	Hall B
8:30	Registration	
9:30	Opening ceremony	
10:30	Coffee break	
	Plenary Works (C. Roumpos, V. Pavlovic, C. Drebenstedt)	
10:45	A tour of recent developments in EU climate and energy policy: the implications for coal and lignite, B. Rickets, EURACOAL	
11:15	UNESCO Sustainable Development Agenda 2030 and Role of Mining, C. Drebenstedt	
11:45	Current State and Development of Continuous Systems on EPS Opencast Coal Mines, D. Ignjatovic, V. Pavlovic, S. Mitrovic, B. Jevtic	
12:15	Coffee break	
	Session 1: Mine planning and design (Chair C. Drebenstedt)	Session 2: Modeling, simulation I (Chair M. Galetakis)
12:30	Simulating the BWE-Conveyor-Stacker System in Python using Salabim Panagiotou G.N.	Ultimate Pit Limit Determination for Fully Mobile In-Pit Crushing and Conveying Systems: A Case Study E. Hay, M. Nehring, P. Knights, M.S. Kizil
12:50	A Holistic Approach for Highly Selective Mechanical Process Chains B. Grafe, C. Drebenstedt, T. Shepel, V. Vilas Yadav	Assessment of the Added-Value of Sentinel1&2 for Mapping and Monitoring Surface Mining M. Stefouli, A. Panagiotopoulou, E. Charou, Y. Spastra, E. Bratsolis, N. Madamopoulos, S. Perantonis
13:10	Integrated Operation in Mining through Digitalization – from a concept to a solution D. Danicic, N. Drljevic, F. Rietschel	Application of the Push-Relabel Algorithm to Lignite Surface Mine Optimisation P. Mpinos, I. Kapageridis
13:30	Lunch	

	Session 3: Equipment and mining systems I (Chair G. Panagiotou)	Session 4: Geotechnical engineering (Chair M. Kavvadas)
15:00	Experimental Investigation of the Activated Rock Cutting Process T. Shepel, C. Drebenstedt	The Role of Geological Faults in Mine Stability: Amynteon mine, Western Macedonia (Greece) as a Case Study S. Pavlides, A. Chatzipetros, I. Lazos
15:20	Determination of Optimal Life Cycle of Bulldozer in Open Pits with Continual Systems in PE EPS D. Ignjatović, P. Jovančić, I. Janković	A cloud-based real-time slope movement monitoring system C. Steiakakis, G. Papavgeri, N. Steiakakis, Z. Agioutantis, P. Schilizzi
15:40	The Role of the Independent Expert in Material Handling and Mining Equipment Design and Approval P. Moczko, D. Pietrusiak, E. Rusiński	The Impact of the Coal Clay in the Slope Geometry of the OCM Radljevo North Opening Cut B. Petrović, T. Šubaranović, I. Ristović
16:00	Development of a Real-Time Mine-Face Inspection System for the Early Detection of Hard Rock Formations during Mining by Bucket-Wheel Excavators M. Galetakis, A. Vafidis, T. Michalakopoulos, G. Apostolopoulos, C. Roumpos, F. Pavloudakis, A. Vasileiou, V. Deligiorgis, A. Soutana	Reliability Evaluation During Slopes Progressive Failure A.V. Deliveris, I.E. Zevgolis, N.C. Koukouzas
16:20	Simulating the performance of bucket wheel excavators by means of soft computing techniques M. Menegaki, Th. Michalakopoulos, C. Roumpos	Avoiding Instability Conditions in Sector 6 of the Southern Field Mine in Northern Greece N. Kolovos
16:40	Analysis of Dislocation of Continual System at "Field D" in Function of Overburden and Coal Production at Eastern Part of Kolubara Coal Basin M. Petrovic, M. Miskovic, S. Alimpijevic, G. Tomic, B. Simic	Investigation of the Stability of Deep Excavation Slopes in Continuous Surface Lignite Mines M. Kavvadas, C. Roumpos, P. Schilizzi
21.00	Gala dinner GRAND HOTEL PALACE	

Tuesday, 25th September 2018

Aristotle University's Research Dissemination Center (KEDEA)

	Hall A	Hall B
	Session 5: Equipment and mining systems II (Chair Th. Michalakopoulos)	Session 6: Health & Safety, Environment (Chair V. Pavlovic)
9:10	A Real-Time Event-Driven Database System for Maintenance Planning and Productivity Analysis in Continuous Surface Mining Operations Z. Agioutantis, S. Delmadorou, N. Steiakakis, C. Steiakakis, S. Papaterpos	Control of Social and Environmental Risks During Opencast Lignite Mining N. Pavlovic, D. Ignjatovic, V. Pavlovic
9:30	Methods of Decreasing of Bucket Wheel Excavators Failures Working In Soils Including Unmineable Intrusions A. Bajcar, M. Onichimiuk, A. Nowak – Szpak, M. Wygoda	A Review of the Effectiveness of Health & Safety Management Systems according to OHSAS 18001 Standard at PPC's Lignite Mines Th. Vlachos
9:50	Open Pit Mine Conveyor Belt shifting using modern surveying equipment – An overview I. Karnaris	Innovative Approaches to Coal Surface Mine Sites Rehabilitation: A Case Study of Megalopolis Lignite Fields A. Sokratidou, E. Gkouvatsou, C. Roumpos, A. Perdiou, G. Tsagkarakis, S. Kaimaki
10:10	PPC Excavator Production improvement of 20% by iBelt 2D Radar Control M. Schönhofer, D. Kasapidis, D. Spanidis, E. Dougalis	Impact of Environmental Policies on Lignite Plants Generation in the Greek Wholesale Electricity Market I. Skoteinos, A. Vlachou, G. Panagakis, G. Orfanos
10:30	Gearless drives for medium power belt conveyors U. Richter	Alkali Activating of Low-Alumina Mine Tailings for more Sustainable Raw Material Supply Mahroo Falah, Robert Obenaus-Emler, Mirja Illikainen
10:50	Mining 4.0 - Our Digital Journey T. Neumann, Ina Wiens	Occupational Accidents in Turkish energy sector S.N. Longinos, M. Parlaktuna
11:10	Coffee break	
	Session 7: Land reclamation (Chair F. Pavloudakis)	Session 8: Water management - Environmental monitoring (Chair N. Koukouzas)
11:30	Moving from Energy Depletion to Energy Crops in Exhausted Continuous Surface Mines V.G. Iliadis, S.M. Kastanakis, A.V. Iliadi	Planning of Mavropigi and Kardias mines depressurization systems by three dimensional groundwater flow numerical modelling G. Louloudis
11:50	Towards a New Deal for the Lignite Industry in Western Macedonia D. Sotiropoulos, E. Karlopoulos, D. Giannakopoulos, D. Mavromatidis	Improvement Methods of Pumping Station Function in Coal Mines of Western Macedonia Lignite Centre N. Koukouzas, R. Karametou, V. Gemeni, C. Roumpos, C. Sachanidis, F. Pavloudakis
12:10	Backfilling and Securing of abandoned Small Scale Coal Mines in Mongolia with Coal Combustion By-Products (CCB's) - the BASMIC Project M. Knippertz, P. Vossen	Alfeios River Sectional Diversion for the Expansion of the Continuous Surface Mining Operations of Megalopolis Mines in the Peloponnese Peninsula, Greece A. Spyridis, C. Roumpos, V. Koutalou, A. Liakoura, N. Arampelos

12:30	Land reclamation planning of continuous surface lignite mines in closure phase: A risk-based investigation Roumpos C., Spanidis & Pavloudakis F.	Surface mining in Western Macedonia, Greece: PM10 Emissions and Dispersion Triantafyllou A., Andreadou M., Moussiopoulos N., Garas S., Kapageridis I., Tsegas G., Diamantopoulos Ch., Saxanidis Ch., Skordas J.
12:50	A Multi-Criteria Methodology for Low-Risk Evaluation of Mine Closure Restoration in Continuous Surface Lignite Mining Projects P-M. Spanidis, C. Roumpos, F. Pavloudakis	Statistical Analysis and Spatial Distribution of Trace Elements Contained in Clays Excavated in Western Macedonia Continuous Surface Mining Complex F. Pavloudakis, C. Roumpos, C. Sachanidis
13:10	Lunch	
	Session 9: Modelling, simulation II (Chair C. Roumpos)	Session 10: Geological exploration, quality control, homogenisation (Chair D. Ignjatovic)
14:30	Use of Mine Planning Software in Mineral Resources and Reserves Estimation of the Lava Lignite Deposit in Serbia – Greece I. Kapageridis, A. Apostolikas, E. Koundourellis	Structural Geology of the Lignite Mines in the Ptolemais Basin, NW Greece E. Delogkos, V. Papanikolaou, T. Manzocchi, C. Childs, V. Roche, G. Camanni, M. P. J. Schöpfer, J. J. Walsh, S. Pavlides, A. Chatzipetros, C. Sachanidis and T. Barbas
14:50	CARBON: A WebGIS Software to evaluate and model open-pit lignite mining systems E. Louvari, A. Pittas	Structural Analysis of Greek and Bulgarian Coals by Solid-State ¹³ C Nuclear Magnetic Resonance (NMR) Spectroscopy C. Apostolidou, A. Georgakopoulos
15:10	Model-based Investigations of Hybrid Mining Systems Using Cutting, Crushing and Conveying Technology in Medium Hard Rock M. Dammers, C. Deppe	Energy Efficiency By Ecological Coal Quality Management In EPS And Its Benefits N. Drljevic, M. Andric
15:30	Why One Dimension is Not Enough – A Comparative Study of Lignite Resources Estimation Using Drillhole Mineable Lignite Compositing of Uncorrelated Seams and Mineable Lignite Compositing of Correlated Lignite Seams I. Kapageridis, A. Iordanidis	Morphology, Mineralogy, and Chemistry of Fly Ash from the Ptolemais Power Stations, Northern Greece, and its potential as partial Portland cement substitute Apostolidou Ch., Georgakopoulos A.
15:50	Unsupervised Machine Learning Applications on Greek Lignite Mining Industry Louloudis G., Louloudis E., Roumpos C.	Open Pit Mine 3D Geological face mapping perspectives obtained by a fully automated, terrain following, rotary-wing UAVs mission I. Karnaris, N. Kolovos
16:10	An Evolutionary Solution for Coal Reserves Modelling and Production Scheduling I. Kapageridis, A. Kerridge, E. Coloma	Investments in geological exploration and effects on mining operating cash costs at lignite open pits Kolubara (Lazarevac), Serbia B. Vuckovic, B. Dimitrijevic
16:30	Coffee break	
17:00	Closing Ceremony	
Wednesday, 26th September 2018		
08:30	Field trip	

Poster Session

Geostatistical Estimation of Coal Reserves in Kardia Mine using Kriging and Conditional Simulation Methods **P. Gkafa, A. Pavlides, C. Roumpos, D. Hristopoulos**

Adaptation of Fruit Crops in Rehabilitated Old Mines Soils in West Macedonia Lignite Centre **I. Papadopoulos, M. Tentsoglidou, C. Papadopoulos, B. Taralidis and F. Papadopolou**

Evaluation of Honey Producing Potential of Robinia Pseudacacia in Reforested Old Lignite Mines in West Macedonia **F. Papadopolou, M. Tentsoglidou, F. Pavloudakis, N. Papadimopoulos, I. Papadopoulos**

Do coal combustion products affect the groundwater quality around Power Plants area of the Lignite Ptolemais basin? **Vasileiou E., Dimitrakopoulos D., Papazotos P., Oikonomopoulos I., Stathopoulos N., Skliros V., Perraki M.**

Sustainable Development Analysis of Lignite Mining, by Coupling Environmental, Economic and Social Indicators **N. Paraskevis, D. Sideri, N. Stathopoulos, C. Roumpos, F. Pavloudakis**

Technological and environmental upgrading of lignite from Amynteon and Ahlada deposits, in Northern Greece, via selective grinding **D. Vamvuka, A. Kreona, A. Mantza, M. Galetakis, A. Vasileiou**

Overview of the Results of Researches Related to Adaptation of Bucket Wheel Excavators Operating in Romanian Lignite Open Pits for Excavation in Rocks with Increased Cutting Resistance **M. Lazar, I. Andras, A. Andras, F.D. Popescu, S.M. Radu, M. Rîsteiu**

New Method of Residual Lifetime Assessment of Bucket Wheel Excavators Operating in Romanian Lignite Open Pits **I. Andras, M. Lazar, A. Andras, S.M. Radu, F. Vilceanu, S. Dinescu**