

# Society of Mining Professors 6<sup>th</sup> Regional Conference 2018

## Abstracts Received

**Using mine planning case studies for empirical estimation of the maximum number of criteria and alternatives for multi-criteria decision making**

*The University of the Witwatersrand, South Africa*

**Proposed enhanced recycling route for generated waste copper smelter dust at Palabora Copper (Pty) Ltd**

*Palabora Copper (Pty) Ltd, South Africa*

**Pestle analysis of Zambia's potential of mining low grade copper ore deposits**

*The University of Zambia, Zambia*

**Geological Modelling in the Wits Mine Tunnel**

*The University of the Witwatersrand, South Africa*

**Effect of recycled bauxite grog addition on andalusite-containing refractory castables for tundish applications**

*Scaw Metals Group, University of the Witwatersrand, South Africa*

**The orebodies at the first kimberlite mines dictated organizational change for improved safety, efficiency and sustainability**

*University of South Africa, South Africa*

**Mining and metallurgical wastes: From waste to resources**

*The University of the Witwatersrand, South Africa*

**Optimizing the extractive capacity of the mining loading and haulage fleet at Nchanga Open Pit Mine Zambia**

*University of Zimbabwe, Zimbabwe*

**Post-mining empowerment: The sustainable development strategy in German hard coal mining**

*Technische Hochschule Georg Agricola, Germany*

**Appropriate technologies for titanium extraction and processing for sustainable development of titanium-zirconium placers in red sand floor area of Binh Thuan, Vietnam**

*University of Mining and Geology, National Institute of Mining-Metallurgy Science and Technology, Vietnam*

**Inclusion of the laboratories in the mining engineering programmes at the University of South Africa as a teaching tool for distance learning**

*University of South Africa, South Africa*

**Comparison of students' performance in surveying related subjects at two South African Universities: University of Johannesburg and University of South Africa**

*University of South Africa, South Africa*

**Attainable region approach to the determination of the run-of-mine size distribution for optimal downstream processing**

*University of South Africa, South Africa*

**A critical review of work integrated learning in mining engineering programmes offered at South African Universities**

*University of South Africa, South Africa*

**Coal as a strategic resource in South Africa**

*University of South Africa, South Africa*

**An evaluation of the economic viability of mining Bench 7B at Grootegeluk Colliery**

*The University of the Witwatersrand, Exxaro, South Africa*

**Evaluation index system of green surface mining based on fuzzy evaluation method**

*China University of Mining and Technology, China*

**The role of mining heritage in the society engagement**

*University of Huelva, Spain*

**Development of wear and corrosion resistant coatings for potential use on sleeves of pumps in a copper mine**

*The University of the Witwatersrand, African Materials Science and Engineering Network, South Africa*

**The impact of sand mining on the fluvial environment: Case study of Nzhelele River in Limpopo province, South Africa**

*The University of the Witwatersrand, University of Venda, South Africa*

**Geological modelling in massive mining**

*The University of the Witwatersrand, South Africa*

**In situ evaluation of mechanical properties of phosphate tailings for exploring re-use potential: case study of a phosphate mine, South Africa**

*University of Limpopo, The University of the Witwatersrand South Africa*

**The effect of chitosan's degree of deacetylation on the performance of chitosan modified composite membranes for acid mine drainage treatment**

*University of the Witwatersrand, The University of Johannesburg, South Africa*

**Factors influencing operational effectiveness in the Zambia Copper Mining Industry**

*The Copperbelt University, Zambia*

**The assessment of the impacts of behaviour on MOSH Leading Practice Adoption System (Falls of Ground)**

*University of Johannesburg, South Africa*

**Growth through public private partnerships in the south african coal mining industry**

*MRT Mining and Consulting Pty Ltd, South Africa*

**A net smelter return model for a polymetallic deposit**

*Namibia University of Science and Technology, South Africa*

**Mine transportation and the mine of the future**

*University of Johannesburg, South Africa*

**The costs of sampling and bias to the mining industry**

*The University of the Witwatersrand, South Africa*

**Enhancing the sustainability of minerals engineering programmes through the development of a minerals resource centre**

*Namibia University of Science and Technology, South Africa*

**Review of mine design course in the Wits mining programme**

*University of Witwatersrand, South Africa*

**Mines safety and accident communication system**

*University of Zambia, Zambia*

**Mitigation of dust and noise generated from mineral processing plants by using a natural barrier system**

*University of Moratuwa, India*

**Mitigation physical techniques of iron contaminant removal of quartz processing plant in Sri Lanka**

*Bogala Graphite Lanka PLC, University of Moratuwa, India*

**Ground vibration mitigation techniques with special reference to open cast mining practices - A review**

*University of Moratuwa, India*

**Benefits of ethanol production in the Zambian Copperbelt to minimize mine decontamination bills and negative environmental and social impacts**

*School of Mines, University of Zambia, Zambia*

**Overcoming challenges in the mining industry through sustainable mining practices**

*MineRP, South Africa*

**Comparison of cut-off grade optimisation models in mine planning**

*The University of the Witwatersrand South Africa*

**Prediction of coal and coal-shale spontaneous combustion liability using statistical analysis, The University of the Witwatersrand, South Africa**

**Selection of Zambia's optimal copper mining excess profit tax, University of Zambia, Zambia**