



SAIMM
THE SOUTHERN AFRICAN INSTITUTE
OF MINING AND METALLURGY

SAIMM HYBRID

CONFERENCE

Diamonds – Source to Use – 2021 Hybrid Conference

Innovation and Technology

9–10 June 2021 Conference

The Canvas Riversands, Fourways, Johannesburg

Abstracts Received

KN01 – Challenges and opportunities created by the global climate crisis viewed through a South African perspective

L. Hockaday, *Mintek, South Africa*

KN02 –

P. Zimmisky, *Diamond Analytics, USA*

KN03 –

V. Ustinov, *AGD Diamonds, Russia*

KN04 – Building a new diamond company in challenging times

P. Ravenscroft, *EHR Resources, Australia*

Diamond plant statistics, process efficiencies, liberation modelling, and simulation: The art of the possible

G. Dellas, *Self Employed, South Africa*

Improved magnetic sorting for diamond processing

J. Danoczi, *Saskatchewan Research Council, Canada*

The hydrofloat, an alternative to grease recovery technology

J. Danoczi, *Saskatchewan Research Council, Canada*

From PEA to production

J. Clarke, *Paradigm Project Management (Pty) Ltd, South Africa*

Satellite applications in diamond exploration and mine monitoring

N.C. Steenkamp, S.L. Goosen, and P.J. Bouwer, *Pinkmatter Solutions, South Africa*

Time-based approach to autogenous mill circuit modelling of kimberlitic ore for comprehensive process design & analysis

K.M. Allan, P. van der Westhuyzen, and A. Jakins, *Lycopodium Minerals Africa, South Africa*

Professionalism in engineering

T.R. Marshall, *Explorations Unlimited, South Africa*

Evaluation of secondary diamond deposits according to the SAMREC Code

T.R. Marshall, *Explorations Unlimited, South Africa*

Reducing emissions for mining operations through optimization and technology implementation

E. Powell, *Saskatchewan Research Council, Canada*

The importance of data analytics in an underground diamond mine

J.P. Labuschagne, *Imining, South Africa*

Analytics for effective investment in early stage diamond projects

S. Coward¹ and J.A.H. Campbell²

¹*Interlaced, Australia* and ²*Botswana Diamonds plc, Dublin, Ireland*

Developing the Mothae Mine: The journey from construction and commissioning to commercial production in less than a year

N. Selby¹ and G. Scheepers², ¹*Lucapa Diamond Company Limited* and ²*Mothae Diamonds Proprietary Limited, Australia, Lesotho*

Artisanal mining of diamond in Africa: Alternative means of job creation and revenue generation

B. Adebayo, *University of Technology, Akure, Nigeria*

The Richtersveld land claim case – Supporting valuation for the state attorney

¹A. Van der Merwe and N Lock², ¹*The MSA Group*, and ²*Private Consulting Geologist, South Africa*

Anatomy of a (Flawed) Technical Report

N. Lock, *Private Consulting Geologist, South Africa*