

# MINE PLANNING AND DESIGN COLLOQUIUM

5-6 SEPTEMBER 2024  
ONLINE VIA ZOOM

ECSA Validated CPD Activity,  
Credits = 0.1 points per hour  
attended.

## Final Programme



### Colloquium Day 1

Thursday, 5 September 2024

- 08:45-09:00 **Online platform opens**
- 09:00-09:10 **Welcome and Opening Address**  
M. Woodhall, *Conference Co-Chairperson, South Africa*
- 09:10-09:30 **SAIMM Presidential Address**  
E. Matinde, *SAIMM President, Mintek, South Africa*
- Session 1**  
Session Chair: M. Woodhall, *South Africa*
- 09:30-10:05 **Keynote Address: The future of mine planning**  
M.C. Munroe, *Implats, South Africa*
- 10:05-10:30 **Bridging the gap between planning and execution**  
A. Loubser and F. Naude, *MineRP, South Africa*
- 10:30-10:55 **The importance of including a pit or underground dewatering design in the initial planning of a mine**  
K.L. Morton, N. Maluleke, and M. Msitsini, *KLM Consulting Services, South Africa*
- 10:55-11:20 **Mid-Morning Tea Break**
- Session 2**  
Session Chair: K.L. Morton, *KLM Consulting Services, South Africa*
- 11:20-11:45 **Comparative study of sequential gaussian simulation and radial basis function: Implications for ore grade estimation for mine planning**  
J.M. Maponya, I. Dikgwatlhe, and T. Chauke, *University of South Africa, South Africa*
- 11:45-12:10 **Cost-effective mining production schedule**  
H. Bornman, *Pivot Mining Consultants, South Africa*
- 12:10-12:35 **Appropriateness of new technologies in mine planning and design - a case study of a room and pillar platinum mine in Zimbabwe**  
M.T. Gwarisa<sup>1,2</sup>, T. Tambudze<sup>3</sup>, and R.P. Gonye<sup>3</sup>,  
<sup>1</sup>Zimbabwe Platinum Mines, *Zimbabwe* and  
<sup>2</sup>University of the Witwatersrand, *South Africa* and  
<sup>3</sup>University of Zimbabwe, *Zimbabwe*
- 12:35-13:00 **Lunch**
- Session 3**  
Session Chair: J. Chiappero, *AMC Consultants, South Africa*
- 13:00-13:25 **Enhancing mine planning with geometallurgical block modelling: Optimising extraction, processing, and economic outcomes**  
C. Tiyani, *University of South Africa, South Africa*

- 13:25-13:50 **Surface mine planning and design through innovative workflow integration**  
M. Abouaali<sup>1</sup> and C. Poblete<sup>2</sup>, *1GEOVIA R&D - Dassault Systèmes France, and GEOVIA R&D - Dassault Systèmes, Australia*
- 13:50-14:15 **Fast generation of high-quality strategic mine plans**  
S. Hill, V.X. Bai, I. Rudge, D. Place, and C. Poblete, *GEOVIA R&D - Dassault Systèmes, Australia*
- 14:15-14:40 **Simulation for equipment selection and mine performance optimisation**  
A. Lebedev, *Lebedev Consulting, South Africa*
- 14:40-15:05 **Tailings, the new showstopper!**  
W. Broodryk and J. du Plessis, *Implats, South Africa*
- 15:05 **Colloquium Day 1 Ends**

### Colloquium Day 2

Friday 6 September 2024

- 08:45-09:00 **Online platform opens**
- 09:00-09:10 **Welcome and Opening Address**  
M. Woodhall, *Conference Chairperson, South Africa*
- Session 4**  
Session Chair: J. du Plessis, *Implats, South Africa*
- 09:10-09:35 **Keynote Address: Mine planning as a process**  
M. Woodhall, *South Africa*
- 09:35-10:00 **AMC consultants' approach to strategy optimisation**  
J. Chiappero, *AMC Consultants, South Africa*
- 10:00-10:25 **Enhancing operational efficiencies in mine planning through artificial intelligence**  
R.G. Thage, *University of South Africa, South Africa*
- 10:25-10:40 **Mid-Morning Tea Break**
- 10:40-11:05 **The consideration of narrow vein stope cleaning in mine design**  
S.M. Rupprecht, *University of Johannesburg, South Africa*
- 11:05-11:30 **An investigation into the use of backfill to reinforce pillars in hard rock bord and pillar layouts**  
D. Ile, *University of Pretoria, South Africa*
- 11:30-11:35 **Datamine (Studio RM) with Sable database Mineral Resource estimation, classification and reporting**  
B. Nkibande, *Implats, South Africa*
- 11:35 **Colloquium close**