Day 1 – Wednesday 12 February 2020

07:00–08:30 Early Morning Refreshments and Registration
08:30–08:40 Welcome and Opening Address
J. Baker, Conference Chairperson and MMMA Representative, South Africa
08:40–08:45 Safety Briefing
Venue Official
08:45–09:00 SAIMM Presidential Opening Address
M.I. Mthenjane, SAIMM President and Exxaro Resources Ltd, South Africa

Session: 1
Session Chairperson: J. Baker, Consultant, South Africa
09:00–09:40 Keynote Address: Risk management for tailings storage facilities
J. Bates, Fraser Alexander, South Africa
09:40–10:00 A talk on the legal environment
K. Cameron, South Africa
10:00–10:20 GIS enabled, web-based TSF surveillance solution
A. Louw, N. Mincione, and R. van der Colf, SRK Consulting, South Africa
10:20–10:40 Monitoring the stability of tailings dam walls with ambient seismic noise
T. de Wit, Institute of Mine Seisology, South Africa
10:40–11:00 Mid-Morning Refreshments

Session: 2
Session Chairperson: E. Matinde, Mintek, South Africa
11:00–11:20 Updating current strategies for estimating a source term for a tailings storage facility
N. van Zweel, South Africa
11:20–11:40 Recent development in the processing of South African ore dumps
S. Makamu, Mintek, South Africa
11:40–12:00 3D seepage modelling in tailings storage facility analysis and design for low permeability lined basins
W. Rouncivell, S. Imrie, G.C. Howell, and H.A.C. Meintjes, SRK Consulting, South Africa
12:00–12:20 Satellite based full life cycle monitoring of tailing storage facilities
N.C. Steenkamp, S.L. Goosen, and P.J. Bouwer, Pinkwater Solutions, South Africa
12:20–13:20 Lunch

Session: 3
Session Chairperson: G. Pretorius, Sibanye Stillwater, South Africa
13:20–13:40 Keynote Address: Current legal dispensation regarding retreatment of Tailings
C. Stevens, Werkmans Attorneys, South Africa
13:40–14:00 Tailings dam risk reduction using accurate pore pressure monitoring
K.L. Morton, KLM Consulting Services Pty Ltd, South Africa
14:00–14:20 An assessment of basic oxygen furnace slag dissolution for application in AMD dam remediation using waste products from the steel manufacturing and sugar industries
T.S. Naidu, D. Chaufan, F. Xiong, C.M. Sheridan, and L.D. van Dyk, University of the Witwatersrand and Centre in Water Research and Development, South Africa
14:20–14:40 Mid Afternoon Refreshments
14:40–15:00 A comparison of conventional and innovative methodologies for water recovery from a tailings storage facility in a dry environment
J.J. van Rooyen, SLR Consulting, South Africa
15:00–15:20 Cut-off systems for dykes and tailings dams in mining
S. Schwank, BAUER Maschinen GmbH, Germany
15:20–15:40 Feasibility of tailings retreatment to unlock value and create environmental sustainability of the Louis Moore tailings dump near Giyani, South Africa
N.K. Singo and J.D. Kramers, University of Johannesburg, South Africa
15:40–16:00 The management of legacy tailings storage facilities - a strategic approach through history, acquisition, transformation and closure
K. Kariko, D. Johannes, T. Morake, and L. Tjatindi, Dundee Precious Metals, South Africa
16:00 Close Day 1

Day 2 – Thursday 13 February 2020

07:00–08:30 Early Morning Refreshments and Registration
08:30–08:35 Welcome and Opening Address
J. Baker, Conference Chairperson and MMMA Representative
08:35–08:40 Safety Briefing
Venue Official

Session: 4
Session Chairperson: M. Valenta, Metallic Process Consulting, South Africa
08:40–09:20 Keynote Address: Thinking differently about tailings
G. Stuart, Sibanye Stillwater, South Africa
09:20–09:40 In Situ and laboratory testing approach to establish TSF vertical expansion requirements
R. van der Westhuizen, Golder, South Africa
09:40–10:00 Rare earth recovery from acid mine drainage tailings dam
N. Moyo, C. Sheridan, and J. Smith, University of the Witwatersrand, South Africa
10:00–10:20 Displacement monitoring with InSAR: an operational approach for tailings dam safety assessment
A. Jonson1 and D. Colombo2, 1‘Optron, South Africa and 2TRE ALTAMIRA, Italy
10:20–10:40 Considerations in the formulation of credible failure scenarios for TSF dam break analyses
S. Maharaj, Golder
10:40–11:00 Mid-morning refreshments
11:00–11:10 DM Minerals Group
11:10–11:30 WIN WIN: A women-driven self-help scheme to remove mine dump residues
K.L. Morton, KLM Consulting Services Pty Ltd, South Africa
11:30–11:50 Design of an HDPE-lined platinum tailings facility in South Africa
L.H. Spies, SRK Consulting, South Africa
11:50–12:10 Risk Management from the operator’s perspective
R. Cooper, SLR Consulting, South Africa
12:10–12:30 ICMM proposals and SAICE views
S. Gover, Golder Associates Africa (Pty) Ltd, South Africa
12:30–12:50 Should upstream tailings dams be banned?
A. Strauss, Knight Piésold (Pty) Ltd, South Africa
12:50–13:50 Lunch
13:50–14:10 Northern tailings facility slump, Video Presentation
14:10–15:00 Panel Discussion: Upstreaming or not upstreaming
J. Bates, Fraser Alexander, South Africa
15:00 Conference Close