# ACCEPTED ABSTRACTS*

Successful transitioning of a perimeter discharge tailings dam to central thickened discharge *D Accadia, F Gassner, Golder Associates Pty Ltd, Australia*

Characterisation of unsaturated geotechnical properties of filtered tailings for a dry stack facility *N Amoah, Karara Mining Ltd, Australia; W Dressel, Wave International, Australia; A Fourie, The University of Western Australia, Australia*

Expanding an already complex paste backfill system *T Anderson, Goldcorp Canada Ltd., Canada*

Advances using electrokinetic dewatering for oil sands tailings *C Armstrong, E Hanna, EKS, Inc., Canada; Y Guo, C Liu, JQ Shang, Western University, Canada*

High thickening for large production rates: main challenges *S Barrera, Delfi Ingeniería SpA., Chile; J Engels, Tailpro Consulting, Chile*

Determination of the optimum storage design of paste material for Pb-Zn tailings *A Bascetin, S Tuylu, D Adiguzel, Istanbul University, Turkey*

Tailings process optimisation through automation and controls integration *M Baxter, McLanahan Corporation, USA; R Williams, McLanahan Corporation Pty Ltd, Australia*

Evaluation of optimum water content of mill tailings paste fill by slump test *SK Behera, Prashant, CN Ghosh, CSIR-Central Institute of Mining and Fuel Research, India; DP Mishra, Indian Institute of Technology (Indian School of Mines), India; D Kumar, CSIR-Central Institute of Mining and Fuel Research, India; S Mohanty, Birla Institute of Technology and Science, Pilani, India; PK Mandal, PK Singh, CSIR-Central Institute of Mining and Fuel Research, India*

Mexican iron mine, surface paste tailings system development – a case study *L Botham, Clifton Associates Ltd., Canada; J Johnson, WesTech Engineering Inc. USA*

Evaluating the shear resistance and ultimate dewatering performance of polymer-treated tailings *L Boxill, M Catling, J Bellwood, BASF Canada Inc., Canada; A Costine, P Fawell, CSIRO Mineral Resources, Australia*

A study on the use of lubrication theory as a tool for slope prediction in paste tailings storage facilities *M Burstein, M Torres, C Ledezma, F Nuñez, Pontificia Universidad Católica de Chile, Chile*

Storage facility capacity increase of 45% by combined tailings technologies *J Cabrejos, EU Pornillos, N Cruzado, Amec Foster Wheeler (Peru) S.A., Peru*

Operational challenges of thickened tailings planning at Centinela mine *C Calderon, Minera Centinela S.A., Chile; J Martínez, M Palape, MineBridge Software, Canada*

Economic evaluation of alternative methods for the management of tailings: identifying the key elements driving the costs of disposal *A Carneiro, A Fourie, The University of Western Australia, Australia*

Mine to tailings: a comprehensive mine planification *G Caro, Codelco, Chile*

Investigating the effect of pre-shear dispersion on the efficiency of flocculation of high solids slurries *M Catling, A Beveridge, A Hopkinson, J Ramsay, BASF Australia, Australia*

Case study: project startup for thickened graphite tailings, storage and water recovery strategies *J Chaponnel, FLSmidth USA Inc., USA*

FLSmidth Colossal filter – demonstration plant *A Chafy, Twigg Exploration and Mining Limitada, Mozambique; Chris Lane, Land & Marine Geological Services Pty Ltd, Australia; Mathew Tidswell, Syrah Resources Ltd, Australia*

Potential for dewatering tailings using bacteria *H Cifuentes, DJ Williams, The University of Queensland, Australia; P Chavez, Aguamarina S.A., Chile*

Understanding factors affecting the stability of polymer amended tailings *A Costine, F Benn, P Fawell, CSIRO Mineral Resources, Australia; M Edraki, T Baumgartl, Sustainable Minerals Institute, The University of Queensland, Australia; J Bellwood, BASF UK Ltd, UK*

Tailings filtration: risk reduction through understanding and designing for variability *R de Krester, Acclarium Tailings and Solid-Liquid Separation Consulting, Australia*

Imaging and monitoring tailings dam walls with ambient seismic noise *T de Wit, Institute of Mine Seismology, Australia*

From concept to closure – 35 years' experience of thickened red mud tailings disposal at Worsley Alumina, Western Australia *P DiDonna, Worsley Alumina Pty Ltd, Australia*

Geotechnical site characterisation of thickened bauxite residue tailings at Worsley Alumina, Western Australia *P DiDonna, Worsley Alumina Pty Ltd, Australia*

Increasing the beach slope – implementation of spigot discharge systems for high density tailings at Sierra Gorda, Chile *J Engels, Tailpro Consulting, Chile; H Gonzales, G Aedo, Sierra Gorda SCM, Chile; G McPhail, WWL Engineering, Australia*

Tailings beach slopes as a dimensionless parameter of non-Newtonian flows *T Errázuriz, E Salfate, Golder Associates S.A., Chile*

Post-liquefaction strength behaviour of thickened tailings beaches under different tailings discharge schemes *T Errázuriz, E Salfate, Golder Associates S.A., Chile*

Implementation-based design – upfront thinking for tailings projects *K Fabian, USA*

Garpenberg mine - 10 years of mining with paste backfill *C Eriksson, M Nordlund, A Nyström, Boliden Mines, Sweden*

Assessment of self-weight consolidation of flocculated fluid fine tailings under various environmental and field conditions *B Fisseha, University of Alberta, USA; Paul Simms, Carleton University, USA; GW Wilson, University of Alberta, USA*

Designing the Siilinjarvi thickened tailings storage facility *T Fitton, Fitton Tailings Consultants, Australia; B Henriksson, Outotec (Finland) Oy, Finland; J Aaltonen, E Ruhanen, A Jaaakonmaki, Yara Suomi Oy, Finland*

Some comments on thickened tailings and beach slopes *T Fitton, Fitton Tailings Consultants, Australia*

Investigation on the effect of fly ash on mill tailings-based paste fill *CN Ghosh, SK Behera, Prashant, CSIR-Central Institute of Mining and Fuel Research, India; DP Mishra, Indian Institute of Technology (Indian School of Mines), India; PK Mandal, PK Singh, CSIR-Central Institute of Mining and Fuel Research, India*

Harvesting tailings from an active tailings storage facility: success and challenges, Frog's Leg mine, Evolution Mining *V Gopalakrishnan, Evolution Mining, Australia; T Nester, J Mgumbwa, Operational Geotechs Pty Ltd, Australia; W Holtzhausen, Evolution Mining, Australia*

Non-invasive sensor network to map stationary bed heights and moving dunes along a pipeline *H Ilgner, C Kruger, Council for Scientific and Industrial Research, South Africa*

Effect of higher water closure rates on metal recoveries and qualities in mineral processing *K Jansson, K Heiskanen, J Kauppi, Outotec (Finland) Oy, Finland; T Kotiranta, Outotec Research Center, Finland*

Thickened tailings open channel design and challenges *S Javadi, P Slatter, B Pirouz, ATC Williams Pty Ltd, Australia*

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Tailings dewatering by pressure filtration: process optimisation and design criteria *F Kaswalder, Aqseptence Group Srl, Italy; Andrew Hawkey, Australia; D Cavalli, Aqseptence Group Srl, Italy; A Paglianti, University of Bologna, Italy*

Performance optimisation of paste thickening at the Yara Siilinjärvi plant *M Kosonen, S Kauvosaari, B Henriksson, Outotec (Finland) Oy, Finland*

A comparison between various pump systems for high-flow tailing pipelines *H Krimpenfort, FELUWA Pumpen GmbH, Germany*

Modern materials for wear and scaling applications *E Lakous, Pipe and Buoy Pty Ltd, Australia*

Current dewatering options for fine gold tailings management in Western Australian goldfields *JJ Moreno, SRK Consulting (Australasia) Pty Ltd, A Ortiz, Paterson & Cooke Australia Pty Ltd, Australia*

How thick is thick enough? *L Munro, Residue Solutions Pty Ltd, Australia*

Advanced control and flowsheet improvements for paste and thickened tailings *J Palmer, Outotec Pty Ltd, Australia*

Decanter centrifuge for paste backfill: pilot scale through commissioning *T Day, N Hastings, Sandfire Resources NL, Australia; N Steward, Weir Minerals, Australia; J Knoblauch, Sandfire Resources NL, Australia; D Pepper, Andritz Separation, Australia*

Comparison between linear and central distribution systems for thickened tailings stacking *B Pirouz, S Javadi, K Seddon, ATC Williams Pty Ltd, Australia*

Evaluation of an online oscillatory rheometer for mine tailings application *B Pirouz, S Javadi, K Seddon, ATC Williams Pty Ltd, Australia*

State parameter as a geological principle in thickened tailings *D Reid, Golder Associates Pty Ltd, Australia; M Jefferies, formerly Golder Associates UK Ltd, UK*

Geotechnical effects of polymer treatment on tailings – state of knowledge review *D Reid, Golder Associates Pty Ltd, Australia; A Fourie, The University of Western Australia*

Development of a tailings management system in a large copper mine using a central thickened discharge scheme *A Roshdieh, M Taherian, ATC Williams, Pty Ltd, Australia; M Khalil, KAZ Minerals PLC, UK; K Seddon, ATC Williams Pty Ltd, Australia*

Assessing tailings consolidation parameters relative to long-term reclaim potential *H Rourke, D Hockley, SRK Consulting (Canada) Inc., Canada*

Pitfalls in interpretation of cone penetration test data recovered from unsaturated geomaterials *A Russell, UNSW Sydney, Australia; D Reid, Golder Associates Pty Ltd, Australia*

Stochastic modelling of beach profiles including the influence of thickener performance *K Seddon, B Pirouz, S Javadi, ATC Williams Pty Ltd, Australia*

Effect of particle size, blend ratio and some selective bio-additives on rheological behaviour of high-concentration iron ore slurry *PK Senapati, JK Pothal, R Barik, CSIR-Institute of Minerals and Materials Technology; R Kumar, NMDC Ltd., India; SS Bhattnagar, Ministry of Steel, India*

Feasibility of a sustainable disposal technique for iron ore slime – a comparative study at Tata Steel *V Shukla, DP Chakraborty, A Kumar, Tata Steel Ltd, India*

Three-dimensional simulations of surface deposition and dam break at the field-scale using time-dependent rheology *P Simms, K Kazemi, Carleton University, Canada*

Analysis of dewatering and desaturation of some field deposition scenarios for thickened tailings *P Simms, Carleton University, Canada; S Qi, University of Ottawa, Canada*

Shear settling in laminar open channel flow: analytical solution, measurements and numerical simulation *A Talmon, Deltares, The Netherlands*

Some observations regarding non-Newtonian turbulent pipe flow and transition, especially in relation to the Wilson–Thomas (1985) theory *A Thomas, Slurry Systems Pty Ltd, Australia*

A case study of successful tailings dewatering and management using polymers *F Verdoorn, B Owens, Arrium Mining, Australia; K Gibbs, Nalco Water, Australia*

A tale of two tailings *RL Veenstra, NJ Dalton, A Zajac, T Davis, Newmont Tanami Pty Ltd, Australia*

Yara thickened tailings disposal *E Vlot, Weir Minerals, The Netherlands; M Riihimäki, Weir Minerals, Finland*

Pulsation free transfer tube hydraulic pumps *E Vlot, Weir Minerals, The Netherlands; R Keijers, Weir Minerals, The Netherlands*

Strength behaviour of sulphur tailings cemented paste backfill: effect of binders and additives *Y Wang, A Wu, G Jiang, H Wang, Y Wang, B Zhou, University of Science and Technology Beijing, China*

Commission and operating experiences of two thickened tailings facilities *T Wennberg, Luossavaara-Kiirunavaara AB, Sweden; A Sellgren, Lulea University Of Technology, Sweden*

Large-scale continuous fine tailings filtration technology *O Whatnall, K Barber, J Warner, Jord International Pty Ltd, Australia; P Robinson, J Plinke, O Orozovic, University of Newcastle, Australia*

GeoWaste™ – continuous co-mingled tailings for large-scale mines *T Wisdom, FLSmidth USA Inc., USA; M Jacobs, Goldcorp Inc., Canada; J Chaponnel, FLSmidth USA Inc., USA; A Gagnon, Goldcorp Inc., Canada*

Effect of additives on suspension pipe flow *J Wu, LJW Graham, G Short, A Chryss, K Constanti-Carey, CSIRO Mineral Resources, Australia*

Practice of rich-clay full tailings paste backfill technology *A Wu, J Wang, S Wang, University of Science and Technology Beijing, China; X Yang, F Zhou, Jiashi Tonghui Copper Mine Co., Ltd, China*

Determination of appropriate measurement parameters for rheological testing base on pipe-loop test *A Wu, S Yin, Y Shao, Y Wang, Y Qi, University of Science and Technology Beijing, China*

Tailings transport on high yield stress requirements: turbulent or laminar flow? *R Yáñez, C Tapia, Golder Associates S.A., Chile*

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