

ACCEPTED ABSTRACTS*

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

Optimisation of central thickened discharge tailings dams during operation *D Accadia, Golder Associates Pty Ltd, Australia*

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

In situ liquefaction potential and strengths assessment at a thickened tailings stack *R Bahia, Golder Associates Portugal Unipessoal Lda, Portugal; M Jefferies, Golder Associates (UK) Ltd, UK; N Raposo, Escola Superior de Tecnologia e Gestão de Viseu, Portugal; M Oliveira, Somincor, Portugal*

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

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*

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*

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*

FLSmith Colossal filter – demonstration plant *J Chaponnel, FLSmidth USA Inc., USA*

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

Transitioning from conventional slurried tailings disposal to thickened or filtered tailings facilities *H Cifuentes, DJ Williams, The University of Queensland, Australia*

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*

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*

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 Siilinjärvi thickened tailings storage facility *T Fitton, Fitton Tailings Consultants, Australia; M Leinonen, 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*

Particle aggregation and dewatering operation assessments on red mud tailings for dry stacking purposes *SC Alves França, B Camara Trampus, Centre for Mineral Technology, Brazil; AA Gomes Gonçalves, Catholic University of Petrópolis, Brazil; PH Mello Cunha, Federal University of Rio de Janeiro, Brazil*

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*

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

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*

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

The Rheomizer – a lean paste aggregate rheometer *B Howe, M McGuinness, Paterson & Cooke Canada Inc., Canada; M van der Walt, Paterson & Cooke Consulting Engineers (Pty) Ltd, South Africa*

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

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*

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*

*The accepted abstracts list is subject to change. For updates, please visit www.paste2018.com

- 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*
- Incorporating the monolithic nature of paste backfill into self-heating assessments *C Lee, D Brown, V Bertrand, S Ouellet, Golder Associates Ltd., Canada; C Adams, Vale Newfoundland and Labrador Inc., Canada*
- Geotechnical and geochemical stability performance of the Neves-Corvo thickened tailings stack *R Lopes, Golder Associates Ltd., Canada; R Bahia, Golder Associates Portugal Unipessoal Lda, Portugal; M Jefferies, formerly Golder Associates UK Ltd, UK; M Oliveira, Somincor, Portugal*
- 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*
- Does adding aggregate to paste backfill increase strength? *P Mainville, Outotec (Canada) Ltd., Canada*
- 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*
- Storage facility capacity increase of 45% by combined tailings technologies *J Cabrejos, EU Pornillos, N Cruzado, Amec Foster Wheeler (Peru) S.A., Peru*
- An analytical solution for stress and displacement fields around a circular excavation with delayed backfill *C Qi, A Fourie, X Zhao, The University of Western Australia, 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*
- Pitfalls in interpretation of cone penetration test data recovered from unsaturated geomaterials *A Russell, UNSW Sydney, Australia; D Reid, Golder Associates Pty Ltd, Australia*
- The geomechanics of thickened and paste tailings *K Seddon, ATC Williams Pty Ltd, Australia*
- 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*
- Rheology applied to the study of flocculated and thickened nickel tailings for waste minimisation in the mineral industry *B Camara Trampus, SC Alves França Center for Mineral Technology, Brazil*
- Comparing vertical exposure modelling methods for underground voids filled with cemented paste backfill *RL Veenstra, NJ Dalton, F Basson, Newmont Tanami Pty Ltd, 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*
- 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*
- 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*
- 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*
- Modeling L-shaped pipe flow using lattice Boltzmann method- discrete element method coupling method *B Yan, C Li, A Wu, H Wang, 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*
- 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*