

07:00 REGISTRATION

08:00 Welcome and introduction *RJ Jewell, Paste 2018 Seminar Chair, Australian Centre for Geomechanics, Australia*

## KEYNOTE ADDRESS AND THICKENING AND FILTRATION (1)

TECHNICAL SESSION SPONSOR


**BASF**  
We create chemistry
08:10 KEYNOTE: Improving the sustainability of residue management practices *D Cooling, Alcoa Corporation, Australia*

08:55 TBA

09:15 High-density thickening for large production rates: main challenges *S Barrera, Delfi Ingenieria SpA, Chile; J Engels, Tailpro Consulting, Chile*

09:35 Discussion

09:45 MORNING BREAK

## THICKENING AND FILTRATION (2)

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10:30 Mexican iron mine, surface paste tailings system development: a case study *L Botham, Clifton Associates Ltd., Canada; J Johnson, WesTech Engineering, Inc., USA*10:50 FLSmidth Colossal filter – demonstration plant *J Chaponnel, T Wisdom, FLSmidth USA Inc., USA*11:10 Tailings filtration: risk reduction through understanding and designing for variability *RG de Kretser, Acclarium Tailings and Solid-liquid Separation Consulting, Australia*11:30 Performance optimisation of paste thickening at the Yara Siilinjärvi plant *E Ruhanen, Yara Siilinjärvi, Finland; M Kosonen, S Kauvosaari, B Henriksson, Outotec Oyj, Finland*

11:50 Discussion

12:00 LUNCH – POSTER SESSIONS AT 12:30

LUNCH SPONSOR


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## DEPOSITIONAL PRACTICES AND EXPERIENCES

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**FLSMIDTH**
13:20 How thick is thick enough? *LD Munro, DD Smirk, Residue Solutions Pty Ltd, Australia*13:40 Understanding factors affecting the stability of inline polymer-amended tailings *A Costine, F Benn, P Fawell, CSIRO Mineral Resources, Australia; M Edraki, T Baumgartl, Sustainable Minerals Institute, Australia; J Bellwood, BASF plc, UK*14:00 A geological principle for the density of thickened tailings *D Reid, The University of Western Australia, Australia; M Jefferies, formerly Golder Associates UK Ltd, UK*14:20 Yara pipeline transportation of thickened tailings *E Vlot, Weir Minerals Netherlands B.V., The Netherlands; M Riihimäki Weir Minerals Netherlands B.V., Finland*

14:40 Discussion

14:50 AFTERNOON BREAK

## TRANSPORTATION (1)

15:20 Non-invasive sensor network to map stationary bed heights and moving dunes along pipelines larger than NB150 *H Ilgner, C Kruger, Council for Scientific and Industrial Research, South Africa*15:40 A comparison between various pump systems for high flow rate tailing pipelines *H Krimpenfort, FELUWA Pumpen GmbH, Germany*16:00 Effect of additives on suspension pipe flow *LJW Graham, G Short, A Chryss, K Constanti-Carey, J Wu, CSIRO Mineral Resources, Australia*16:20 Shear settling in laminar open channel flow: analytical solution, measurements and numerical simulation *AM Talmon, Deltares and Delft University of Technology, The Netherlands; L Sittoni, E Meshkati Shahmirzadi, JIJ Hanssen, Deltares, The Netherlands*

16:40 Discussion

16:50 DAY ONE CLOSE

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## KEYNOTE ADDRESS AND BEACH PROFILES

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Outotec

08:00	KEYNOTE: Beach prediction experience to date: further development and review of the stream power-entropy approach <i>Gl McPhail, Water, Waste and Land Australia Pty Ltd, Australia</i>
08:45	Designing the Siilinjarvi thickened tailings storage facility <i>TG Fitton, Fitton Tailings Consultants, Australia; B Henriksson, Outotec Oyj, Finland; E Ruhanen, Yara Siilinjärvi, Finland</i>
09:05	Stochastic modelling of beach profiles including the influence of thickener performance <i>KD Seddon, B Pirouz, S Javadi, ATC Williams Pty Ltd, Australia</i>
09:25	Discussion
09:35	MORNING BREAK

## GEOTECHNICAL ASPECTS

TECHNICAL SESSION SPONSOR

ArmorPIPE<sup>®</sup>  
TECHNOLOGIES

10:10	Geotechnical effects of polymer treatment on tailings – state of knowledge review <i>D Reid, AB Fourie, The University of Western Australia, Australia</i>
10:30	Evaluating the shear resistance and ultimate dewatering performance of polymer-treated tailings <i>L Boxill, BASF Canada Inc., Canada; A Costine, P Fawell, CSIRO Mineral Resources, Australia; M Catling, BASF Corp., USA; J Bellwood, BASF UK Ltd, UK</i>
10:50	Assessment of self-weight consolidation of flocculated fluid fine tailings under various environmental conditions <i>B Fisseha, GW Wilson, P Simms, University of Alberta, Canada</i>
11:10	Case study – SIMEC Mining Big Baron Pit successful tailings dewatering and management using WaterShed polymer <i>F Verdoorn, B Owens, SIMEC Mining, Australia; K Gibbs, Nalco Water, Australia</i>
11:30	Discussion
11:40	Presentation from BASF, Paste 2018 Seminar Principal Sponsor <i>I Flanagan, BASF plc, UK</i>
11:50	LUNCH

## TRANSPORTATION (2)

12:50	Pulsation-free hydraulic driven swing tube piston pump <i>E Vlot, R Keijers, Weir Minerals Netherlands B.V., The Netherlands</i>
13:10	Some observations regarding non-Newtonian turbulent flow and transition, especially in relation to the Wilson–Thomas (1985) theory <i>AD Thomas, Slurry Systems Pty Ltd, Australia</i>
13:30	Tailings transport on high yield stress requirements: turbulent or laminar flow? <i>R Yáñez, C Tapia, Golder Associates S.A., Chile</i>
13:50	Effect of particle size, blend ratio and some selective bio-additives on rheological behaviour of high concentration iron ore slurry <i>PK Senapati, JK Pothal, R Barik, CSIR-Institute of Minerals and Materials Technology, India; R Kumar, National Mineral Development Corporation, India; SK Bhatnagar, Ministry of Steel, India</i>
14:10	Discussion
14:20	AFTERNOON BREAK

## BACKFILL

14:50	Garpenberg mine – 10 years of mining with paste backfill <i>C Eriksson, A Nyström, Boliden Mines, Sweden</i>
15:10	Harvesting tailings from an active tailings storage facility: success and challenges, Frog's Leg Mine, Evolution Mining <i>V Gopalakrishnan, Evolution Mining, Australia; T Nester, J Mgumbwa, Operational Geotech Pty, Australia; W Holtzhausen, Evolution Mining, Australia</i>
15:30	Application of clay-rich full plant tailings paste backfill technology <i>A Wu, J Wang, S Wang, University of Science and Technology Beijing, China; X Yang, F Zhou, Jiashi Tonghui Copper Mine Co., Ltd, China</i>
15:50	Evaluation of optimum water content for mill tailings paste fill in underground metalliferous mines by slump test <i>SK Behera, Prashant, CSIR-Central Institute of Mining and Fuel Research, India; DP Mishra, Indian Institute of Technology (Indian School of Mines), India; CN Ghosh, CSIR-Central Institute of Mining and Fuel Research, India; S Mohanty, Birla Institute of Technology and Science, India; PK Mandal, PK Singh, CSIR-Central Institute of Mining and Fuel Research, India</i>
16:00	Discussion
16:10	DAY TWO CLOSE

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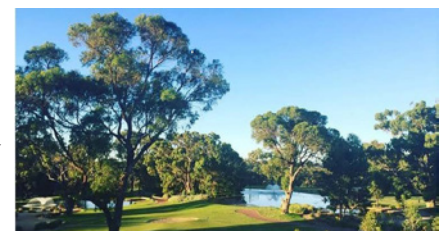
## SEMINAR DINNER - WEMBLEY GOLF COURSE

THURSDAY 12 APRIL 2018 | AMBROSE ROOM, WEMBLEY GOLF COURSE, WESTERN AUSTRALIA

Venue: Ambrose Room, Wembley Golf Course  
200 The Boulevard, Wembley Downs, WA 6019  
Date: Thursday 12 April 2018  
Time: 6:30pm – 10pm

Surrounded by lush green lawns and natural bushland, the Ambrose Room at the Wembley Golf Course is the setting for the Paste 2018 Seminar Dinner, allowing delegates and guests to enjoy a relaxed networking opportunity with a view.

Spaces are limited. Register via the form on the back page or visit [www.paste2018.com](http://www.paste2018.com)



## KEYNOTE ADDRESS AND OPERATIONAL EXPERIENCES

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09:00	KEYNOTE: International tailings management guidelines: recent developments <i>M Davies, Teck Resources Ltd, Canada</i>
09:30	Operational challenges of thickened tailings planning at Centinela Mine <i>CA Calderón, EH Cortés, Minera Centinela, Chile; JA Martínez, MA Palape, CA Cooper, MineBridge Software, Canada</i>
09:50	Successful transitioning of a conventional slurry tailings storage facility for central thickened discharge <i>DA Accadia, FW Gassner, Golder Associates Pty Ltd, Australia</i>
10:10	Discussion
10:20	MORNING BREAK

## OPERATIONS AND OPTIONS

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10:50	Characterisation of unsaturated geotechnical properties of filtered magnetite tailings in a dry stack facility <i>N Amoah, Karara Mining Ltd, Australia; W Dressel, Wave International, Australia; AB Fourie, The University of Western Australia, Australia</i>
11:10	Increasing the beach slope – implementation of spigot discharge systems for high-density tailings at Sierra Gorda Sociedad Contractual Minera, Chile <i>J Engels, Tailpro Consulting, Chile; H Gonzalez, G Aedo, Sierra Gorda Sociedad Contractual Minera, Chile; GI McPhail, Water, Waste and Land Australia Pty Ltd, Australia</i>
11:30	Analysis of dewatering and desaturation of generic field deposition scenarios for thickened tailings <i>S Qi, P Simms, Carleton University, Canada</i>
11:50	Dewatering options for management of fine gold tailings in Western Australian Goldfields <i>JJ Moreno, S Kendall, SRK Consulting Australasia Pty Ltd, Australia; A Ortiz, Paterson &amp; Cooke Australia Pty Ltd, Australia</i>
12:10	Discussion
12:20	LUNCH

## NEW DEVELOPMENTS (1)

13:20	Some comments on thickened tailings and beach slopes <i>TG Fitton, Fitton Tailings Consultants, Australia</i>
13:40	A conceptual cost comparison of alternative tailings disposal strategies in Western Australia <i>A Carneiro, AB Fourie, The University of Western Australia, Australia</i>
14:00	Imaging and monitoring tailings dam walls with ambient seismic noise <i>T de Wit, G Olivier, Institute of Mine Seismology, Australia</i>
14:20	GeoWaste™: continuous co-mingled tailings for large scale mines <i>T Wisdom, FLSmidth USA Inc., USA; M Jacobs, Goldcorp Inc., Canada; J Chaponnel, FLSmidth USA Inc., USA</i>
14:40	Discussion
14:50	AFTERNOON BREAK

## NEW DEVELOPMENTS (2)

15:20	Operational strategies to improve paste plant performance <i>J Palmer Outotec Pty Ltd, Australia</i>
15:40	Pitfalls in interpretation of cone penetration test data recovered from unsaturated geomaterials <i>AR Russell, The University of New South Wales, Australia; D Reid The University of Western Australia, Australia</i>
16:00	Tailings dewatering by pressure filtration: process optimisation and design criteria <i>F Kaswalder, D Cavalli, Aqseptence Group Srl, Italy; A Hawkey, Diemme Filtration, Australia; A Paglianti, University of Bologna, Italy</i>
16:20	Discussion
16:30	Closing address <i>RJ Jewell, Paste 2018 Seminar Chair, Australian Centre for Geomechanics, Australia</i>
16:45	DAY THREE CLOSE

## POSTER SESSION | 12:30–13:10 WEDNESDAY 11 APRIL

	Poster no.
Investigation on the effect of fly ash addition on strength of mill tailings based paste fill <i>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, J Borgahin, CSIR-Central Institute of Mining and Fuel Research, India</i>	1
Modern polyethylenes for wear and scaling applications <i>E Lakous, Pipe And Buoy Pty Ltd, Australia</i>	2
Compressive strength behaviour of sulphur tailings paste backfill: effects of binders and additives <i>A Wu, G Jiang, Y Wang, Y Wang, H Wang, C Li, University of Science and Technology Beijing, China</i>	3
Tailings beach slopes as a dimensionless parameter of non-Newtonian flows <i>T Errázuriz, Golder Associates S.A., Chile</i>	4
Case study: project start-up for thickened graphite tailings, storage and water recovery strategies <i>A Chafy, M Tidswell, Syrah Resources Lda, Mozambique; C Lane, Land &amp; Marine Geological Services Pty Ltd, Australia</i>	5

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