The Australian Centre for Geomechanics is delighted that the 22nd International Conference on Paste, Thickened and Filtered Tailings will be held in Cape Town, South Africa from 8–10 May 2019, in collaboration with Paterson & Cooke.

This will be the fifth time that the event will be held in Southern Africa: Pilanesberg (2001), Cape Town (2004), Botswana (2008) and Rustenburg (2012).

Southern Africa, as a region, is water scarce and has experienced severe droughts for the last few years. Together with changes in local legislation requiring facilities to be lined, there is a renewed interest in paste and thickened tailings and dry stack filter options in the region.

Conference Keynotes

David Corriveau
Director, Tailings, Canada’s Oil Sands Innovation Alliance, Canada
“Canada’s oil sands innovation alliance - leading innovation in oil sands tailings”

Mariette Liefferink
CEO, Federation for a Sustainable Environment, South Africa
“Selected extracts from South Africa’s environmental legislation, challenges with the management of gold tailings within the Witwatersrand gold fields and case studies”

Dr Caius Priscu
Head of Mineral Residue Facilities and Water, Anglo American, Chile

Conference Co-chairs

Professor Andy Fourie
Professor of Civil and Mining Engineering, The University of Western Australia, Australia

Dr Angus Paterson
Managing Director
Paterson & Cooke, South Africa
## CASE STUDIES

The use of high-density thickened tailings disposal in a semi-arid climate for all the right reasons S Hazelton, S Dorman, SLR Consulting, South Africa; G McPhail, Water Waste & Land Engineering, Australia

Case study – design of a filtered tailings storage facility in the West Australian Goldfields S Kendall, J Rola, SRK Consulting, Australia

Dareh Alou thickened tailings management scheme: a case study A Roshdieh, K Seddon, ATC Williams Pty Ltd, Australia; M Mohebbi, K Shakeri, NICICO, Iran; M Nosrati, Middle East Water and Environment, Spain

From dry stracking to paste backfilling: when switching technologies, it is an opportunity SC T ejerina, Golder Associates Global Ibérica S.L.U., Spain; IC Martínez, First Quantum Minerals, Spain

Case study: conversion of a conventional above-ground tailings storage facility to a perimeter discharge central decant configuration through successful tailings dewatering and management using Nalco WaterShed Polymer F Verdoorn, SIMEC Mining, Australia; K Gibbs, Nalco Water, Australia

## CLOSURE AND REHABILITATION

Rehabilitation of the Tronox KZN Sands Hillendale mine’s residue storage facility J Beukes, J Venter, M Vlok, Tronox KZN Sands, South Africa

Assessing the flow liquefaction susceptibility of iron ore cyclone underflow material J Boshoff, Golder Associates Pty Ltd, Australia

Mine fines de-watering trials using amphibious vehicles at the Tronox KZN Sands Fairbreeze mine B Cocks, Tronox KZN Sands, South Africa; K Goss-Ross, Tailings Treatment and Geotechnical Services, South Africa

Ready-to-reclaim options for oil sand tailings LK Kabwe, GW Wilson, JD Scott, NA Beier, University of Alberta, Canada

## DE-WATERING TECHNOLOGIES

Selecting a suitable method for dewatering of Noamundi iron ore slimes: a case study SJ Anzoom, A Dubey, AS Patra, AK Mukherjee, AK Bhatnagar, Tata Steel Ltd., India

Transitioning to no tailings dams for a coal washing plant A Chinchankar, Alfa Laval, Sweden; S Li, M Gerber, Alfa Laval, Australia

Statistical analysis of thickener process data, some case studies M Cooks, W Randall, Live Blue Marble Technology (Pty) Ltd, South Africa

A case history in filtered tailings in southern Namibia V Daigle, A Copeland, Knight Piesold Consulting, Namibia

Improving installed thickener performance E de Vos, M Cook, Paterson & Cooke, South Africa

Tailings dewatering with increased solids throughput and lowest moisture contents for improved dry stacking J Hahn, BOKELA GmbH, Germany

Dewatering tailings: rapid water recovery by use of centrifuges R Klug, Flottweg SE, Germany; N Schwarz, Schwarz Global Consulting, South Africa

The effect of pre-conditioning of tailings prior to inline flocculation and deposition CT López, M Catling, BASF Corporation, USA; J Bellwood, BASF plc, UK; L Boxill, BASF Canada Inc., Canada; J Ramsay, BASF Australia Ltd, Australia

The application of full-function high-pressure filter presses in tail water dewatering G Maré, S Opperman, ENPROTEC, South Africa

Practical tailings slurry dewatering and tailings management strategies for small and medium mines G McPhail, R Ugaiz, F Garcia, Water, Waste and Land Australia Pty Ltd, Australia

Hybrid paste preparation J Palmer, Outotec, Australia

Electrokinetic dewatering of mine tailings from hydrometallurgical processes JQ Shang, Y Xu, University of Western Ontario, Canada

Feasibility of a sustainable disposal technique for iron ore slimes V Shukla, C Raghu Kumar, DP Chakraborty, A Kumar, Tata Steel Limited, India

Process water conditioning to improve tailings thickening and filtration A Vietti, Vietti Slurrytec (Pty) Ltd, South Africa

The Underdog Mechanical Tailings Dewatering Alternative for Tailings - The Screw Press W Wimmler, Innovative Filtration Solutions, Australia

Maintaining high availability and low operational costs for filtered tailings facilities T Wisdom, FLSmidth, USA

## EMERGING ISSUES AND TECHNOLOGIES

Advances in non-Newtonian dam-break studies N Moon, M Parker, HJJ Boshoff, Golder Associates Pty Ltd, Australia; D Clohan, Golder Associates Ltd, Canada

Applying image classification to develop artificial intelligence for tailings storage facility hazard monitoring using site-based cameras J Engels, Tailpro Consulting, Chile; H Gonzalez, G Aedo, Sierra Gorda SCM, Chile

Satellite bathymetry for the monitoring of supernatant water volumes within tailings storage facilities L Navarro, G Aravena, J Engels, Tailpro Consulting, Chile; J Turner, PhotoSat Information Ltd., Canada

* Subject to change. For updates, please visit www.paste2019.co.za
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<td>G Spagnoli, BASF Construction Solutions GmbH, Germany; F Clement, BASF Belgium, Belgium; BZ Dilnesa, BASF Schweiz, Switzerland; F Hua Cao, BASF BACC, China</td>
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<td><strong>Demonstrating the use of earth observation data and satellite InSAR for the remote monitoring of mine tailings hazards</strong></td>
<td>A Thomas, CGG NPA Satellite Mapping, UK; S Edwards, University College London, UK &amp; Sustainable Minerals Institute International Centre of Excellence, Chile</td>
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<td><strong>Severe service valves for applications with high percentages of solids</strong></td>
<td>R Waters, CGIS, Canada</td>
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<td><strong>Online rheology monitoring of a thickener underflow</strong></td>
<td>A Chryss, K Constanti-Carey, NS Yap, CSIRO Mineral Resources, Australia</td>
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<td><strong>Effects of the mineralogical composition and particle size distribution on the rheology and dewatering properties of gold and copper tailings</strong></td>
<td>P Desriviers, A Quintero, Golder Associates S.A., Chile; P Primeau, Golder Associates Ltd., Canada</td>
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<td><strong>An improved understanding of thickened tailings rheology through computational fluid dynamics modelling</strong></td>
<td>AB Fourie, J Gao, The University of Western Australia, Australia</td>
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<td><strong>Rheological properties of lead–zinc mill tailings paste with fly ash and jarosite as partial binder replacement</strong></td>
<td>CN Ghosh, SK Behera, Prashant, K Mishra, DP Mishra, PK Mandal, J Buragohain, PK Singh, CSIR-Central Institute of Mining and Fuel Research, India</td>
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<td><strong>Control the rheology of tailings via surface chemistry tools</strong></td>
<td>Y-K Leong, The University of Western Australia, Australia</td>
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<td><strong>Investigation of the effects of different cover material to surface paste disposal method for lead–zinc tailings by pilot scale tests</strong></td>
<td>D Adiguzel, A Bascetin, S Tuylu, Istanbul University Cerrahpasa, Turkey; H Eker, Gumushane University, Turkey; Y Baktarhan, E Odubas, Istanbul University Cerrahapasa, Turkey</td>
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<td><strong>Tailings properties affecting the stacking angle of cyclone underflow</strong></td>
<td>R Cooper, Fraser Alexander (Pty) Ltd, South Africa</td>
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<td><strong>Case histories of dry tailings and ash disposal</strong></td>
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<td><strong>Filtered tailings: developing the business case</strong></td>
<td>A Gagnon, Lundin Mining, Canada</td>
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<td><strong>Considerations for dam break assessments of dewatered tailings storage facilities</strong></td>
<td>P Moreno, N Thompson, SRK Consulting, Australia</td>
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<td><strong>Dry stacking of high-grade flake graphite tailings in Tanzania</strong></td>
<td>P Moshi, J DeVries, Black Rock Mining Limited, Australia; C Hogg, CMW Geosciences Pty Ltd, Australia; C Lane, Land &amp; Marine Geological Services Pty Ltd, Australia</td>
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<td><strong>Comparison between linear and central distribution systems for thickened tailings stacking</strong></td>
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<td>D Reid, The University of Western Australia, Australia</td>
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<td><strong>The geomechanics of thickened and paste tailings</strong></td>
<td>D Adiguzel, A Bascetin, Istanbul University Cerrahpasa, Turkey; H Eker, Gumushane University, Turkey; S Tuylu, Istanbul University Cerrahapasa, Turkey</td>
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<td><strong>Slag as a scope for alternative binder in paste backfilling</strong></td>
<td>SK Behera, CN Ghosh, Prashant, CSIR-Central Institute of Mining and Fuel Research, India; DP Mishra, Indian Institute of Technology, India; K Mishra, PK Mandal, J Borgahin, PK Singh, CSIR-Central Institute of Mining and Fuel Research, India</td>
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<td>L Liu, Z Fang, P Yang, C Zhu, J Xin, Xi’an University of Science and Technology Beijing, China</td>
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<td>Paste reticulation blockage – an Australian case study</td>
<td>A Morcombe, Quattro Project Engineering, Australia</td>
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<td>FS Palkovits, Mine Paste Ltd, Canada; A Nkulu, Randgold Resources Ltd, Democratic Republic of the Congo</td>
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<td>Prashant, CN Ghosh, SK Behera, K Mishra, PK Mandal, D Kumar, PK Singh, CSIR-Central Institute of Mining and Fuel Research, India</td>
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<td>Wear in underground backfill pipelines</td>
<td>J Sabeti, B Lin, Hatch, Canada</td>
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<td>The effect of hydration on yield surface of cemented paste backfill</td>
<td>A Safarizadeh, A Taheri, M Karakus, G Nguyen, University of Adelaide, Australia</td>
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<td>Optimisation of cemented aggregate fill</td>
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<td>Determining the required underground grout pack production profile</td>
<td>B van der Spuy, Paterson &amp; Cooke Consulting Engineers (Pty) Ltd, South Africa</td>
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<td>Friction losses of cemented unclassified iron tailings slurry based</td>
<td>AX Wu, ZE Ruan, YJ Shao, JD Wang, SH Yin, SY Wang, University of Science and Technology Beijing, China</td>
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<td>Study on the effects of microparameter on macroscopic characteristics</td>
<td>J Xin, L Liu, P Zhou, C Zhu, Z Fang, Xi’an University of Science and Technology Beijing, China</td>
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<td>Advancements of fluid fine tailings treatment technologies through</td>
<td>XS Yuan, J Lorentz, R Siman, Syncrude Canada Ltd, Canada</td>
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<td>Early strength and stiffness investigations into the slag-lime paste</td>
<td>O Zatta, South32 Cannington, Australia</td>
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<td>Internal sulfate attack of cemented paste backfill with the recycled</td>
<td>C Zhu, L Liu, K Chen, J Xin, Z Fang, Xi’an University of Science and Technology, China</td>
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Sponsor and exhibitor opportunities are available for the 22nd International Conference on Paste, Thickened and Filtered Tailings. The conference is an excellent platform to enhance your presence in the market and position your organisation as one of the leaders in the industry. ACG sponsors and exhibitors enjoy numerous benefits, including:

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Why Filtered?

Previously the event series was titled “International Seminars on Paste and Thickened Tailings”; the updated title acknowledges the growth of this international event and industry’s interest in filtration. Given the increasing scrutiny of the mining industry and its relatively poor record with regards to mine tailings management, increased requirements to minimise water usage (often accompanied by very high costs of water) and the need to demonstrate achievable long-term closure strategies, it is likely that the option of a filtered tailings system will need to be considered in many operations in future.

ASSOCIATED EVENT

Paterson & Cooke Mine Backfill - Design and Operation Course

Course facilitator: Dr Angus Paterson, Managing Director, Paterson & Cooke, South Africa

The one day backfill course will introduce the fundamental concepts of geomechanics and material properties that underpin decision-making when developing a backfill design. The course will examine the various elements that go into engineering and operating a backfill system, including plant/process design, underground reticulation design and backfill management planning.

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| Backfill study stages and testing | Study levels – scoping, pre-feasibility to feasibility  
Pros and cons of paste and hydraulic fill  
Backfill testing programmes  
Sizing a plant and utilisation factors |
| MORNING BREAK |
| Backfill system design | Design criteria  
Flowsheets  
Equipment selection |
| Case studies/various examples | Design pitfalls |
| LUNCH |
| Pipeline distribution system hydraulics | Background  
Hydraulic backfill versus paste backfill flow  
Modelling  
Design requirements |
| Case study – pipeline wear | Pipeline wear experience |
| Backfill placement and monitoring considerations | Strength requirements  
Advances in pour monitoring  
Rise rates and pressures |
| AFTERNOON BREAK |
| Backfill system management | Scheduling  
Barricades  
Training |
| Wrap-up | Questions and discussion |
| COURSE CLOSE |
ASSOCIATED EVENT

ACG Is the Future Filtered? Paste and Thickened Tailings Short Course
7 May 2019 | DaGama/Diaz Room, The Westin | Cape Town

Course facilitator: Professor Andy Fourie, Professor of Civil and Mining Engineering, The University of Western Australia, Australia

Drawing on experiences from a number of operational filtered tailings facilities, this short course will discuss available technologies, appropriate test programmes to determine relevant design parameters, operational challenges and cost comparisons.

Presenters include:
Andrew Copeland, Knight Piésold (Pty) Ltd
Professor Andy Fourie, The University of Western Australia
Dr David Reid, The University of Western Australia
Todd Wisdom, FLSmidth

CONFERENCE VENUE

The Westin Cape Town

The 22nd International Conference on Paste, Thickened and Filtered Tailings will be held at The Westin Cape Town.

Address: Convention Square, Lower Long Street
Cape Town, 8000, South Africa
Phone: +27 21 412 9999
Website: www.westincapetown.com

The Westin Cape Town offers unique views of the Victoria & Alfred Waterfront and Table Mountain. The hotel’s glass façade allows clear panoramic views of the breathtaking beauty of Table Mountain, Lion’s Head and the whole of Table Bay. The hotel also offers a large variety of restaurants and bars.

With Cape Town having strict water usage restrictions, The Westin has made provisions for this by installing its own desalination plant, along with other water use initiatives.

HOST CITY

Cape Town

Cape Town, or as the locals affectionately call her, the ‘Mother City’, is a port city on South Africa’s southwest coast and the capital of the Western Cape province. Situated on a peninsula beneath Table Mountain, Cape Town is an incredibly unique and beautiful coming together of culture and nature.

Whether you’re riding the cable car to the top of Table Mountain to take in the beautiful views of the bustling city and showstopping national park, taking a boat cruise to Robben Island, the notorious former prison which is now a UNESCO World Heritage Site, or exploring the 588 hectares of natural beauty at the Kirstenbosch National Botanical Garden, Cape Town is guaranteed to provide you with an experience you will never forget.

For more information see paste2019.co.za/host-city
IMPORTANT NOTE
Paste 2019 Conference speakers please do not fill out this form. Speakers will be contacted by the Australian Centre for Geomechanics (ACG) upon acceptance of their paper and will be sent a speaker registration form. The speaker registration fee for the Paste 2019 Conference is R11,000.

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*Position _________________________________________________________________
*Organisation ______________________________________________________________
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Payment to be received by 3 May 2019. All bank fees are the responsibility of the registrant. All prices include applicable taxes.

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