



CONFERENCE PROGRAM

GEOANZ #1 ADVANCES IN GEOSYNTHETICS

CONFERENCE PROGRAM

TUESDAY 7 JUNE 2022

DAY 1





12noon

Registration Desk open

Plaza Level foyer, Grey Street entrance, Brisbane Convention & Exhibition Centre

MASTER CLASSES

Pre-registration required to attend The Master Class.

	PLAZA ROOM 6	PLAZA ROOM 7	PLAZA ROOM 8
1.00pm– 5.00pm	<p>MASTER CLASS 1</p> <p>Convenors Professor JP Giroud, Professor Malek Bouazza & Mr Boyd Ramsey</p> <p>Advances in Design and Construction with geosynthetics for Hydraulic Structures and Environmental Containment</p> <p>Speakers Abigail Beck, John Cowland, Fred Gassner, Daniel Gibbs, J P Giroud, Gus Martins, Jake Stoyle</p> <p><i>Proudly sponsored by</i></p> 	<p>MASTER CLASS 2</p> <p>Convenor Professor Jorge Zornberg</p> <p>Advances in Design and Construction with geosynthetics for Retaining Structures, Slopes, and Roadways</p> <p>Speakers Rajesh Bhavsar, Allan Garrard, Chris Lawson, Amir Shahkolahi</p> <p><i>Proudly sponsored by</i></p> 	<p>MASTER CLASS 3</p> <p>Convenors Professor Craig Benson, Professor Timothy Stark & Professor David Williams</p> <p>Advances in Design and Construction with geosynthetics for Mine Tailings and Closure Applications</p> <p>Speaker Pascal Saunier</p> <p><i>Proudly sponsored by</i></p> 
5.30pm– 7.30pm	<p>Welcome Reception at South Beach, South Brisbane</p> <p>A ticket to the Welcome Reception is included in full registrations only.</p>		<p><i>Proudly sponsored by</i></p> 



GEOANZ #1 ADVANCES IN GEOSYNTHETICS






MASTER CLASSES

MASTER CLASS #1	MASTER CLASS #2	MASTER CLASS #3
Advances in Design and Construction with geosynthetics for Hydraulic Structures and Environmental Containment	Advances in Design and Construction with geosynthetics for Retaining Structures, Slopes, and Roadways	Advances in Design and Construction with geosynthetics for Mine Tailings and Closure Applications
		
Convenor: Professor JP Giroud, Professor Malek Bouazza & Mr Boyd Ramsey	Convenor: Professor Jorge Zornberg	Convenor: Professor Craig Benson, Professor Timothy Stark & Professor David Williams
Speakers: Abigail Beck, John Cowland, Fred Gassner, Daniel Gibbs, Gus Martins, Jake Stoyale	Speakers: Rajesh Bhavsar, Allan Garrard, Chris Lawson, Amir Shahkolahi	Speakers: Pascal Saunier
Topic	Topic	Topic
Introduction	Introduction	Introduction
Topic 1: Liquid and Gas Depressurisation in Storages	Topic 1: Geosynthetic-reinforced Soil Walls	Topic 1: Liners and covers for mine waste applications – Aussie experience
Topic 2: Factors in Geomembrane leakage – reasonable expectations, historical data and calculations	Topic 2: Embankments on Soft Foundations	Topic 2: GCLs in liner systems for mine waste applications
Sponsor Case Study	Sponsor Case Study	Sponsor Case Study
Refreshment Break	Refreshment Break	Refreshment Break
Gas and Liquid Barrier using MGCL system		
Topic 3: Emerging contaminants in temporary repositories and in solid and liquid containment facilities	Topic 3: Geosynthetic-reinforced Load Transfer Platforms	Topic 3: Geosynthetics for tailing disposal facilities: containment and stability
Topic 4: Wind uplift – updated calculations, factors for consideration and analysis and use of mechanical fasteners	Topic 4: Geosynthetics in Roadways	Topic 4: Tailings drainage using multilinear drainage geocomposites
Topic 5: Water flow over geosynthetic liners	Topic 5: Geosynthetics in Railways	Topic 5: Geosynthetics for Evaporation mining
Q and A / Wrap up	Q and A / Wrap up	Q and A / Wrap up

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WEDNESDAY 8 JUNE 2022

DAY 2

7.30am– 8.45am	Breakfast Sessions Invitation only	Proudly sponsored by  
8.00am– 5.00pm	Registration Desk open	
8.00am– 5.00pm	Exhibition open Come and visit your industry colleagues. We have 20 exhibitors who have supported GEOANZ #1	Barista cart available, proudly sponsored by 
9.00am	Welcome Address from Convenor, Siamak Paulson, President, ACIGS	
9.10am	PLAZA ROOM 10/11 Keynote presentation Prof Jorge Zornberg The Resourcefulness of Geotechnical Design when adopting Geosynthetics	Proudly supported by 
10.10am– 10.40am	Morning Refreshments & opportunity to meet the sponsors and exhibitors	Proudly sponsored by 

CONCURRENT SESSIONS

	PLAZA ROOM 10 & 11	PLAZA ROOM 7 & 8
	Session 1.1 Advances in Geosynthetics for Geo-environmental Application Chair Mr Boyd Ramsey Proudly sponsored by 	Session 2.1 Advances in Geosynthetics for Reinforcement and Stabilisation Chair Mr Jonathan Shamrock Proudly sponsored by 
10.40am	Abigail Gilson, Tri Environmental Understanding Dipole Method Testing Results	Chaminda Gallage, Queensland University of Technology (QUT), Brisbane, Queensland, Australia Field evidence on the effectiveness of the geogrid/geocomposite reinforcement in reducing induced stress on weak subgrades
11.00am	Attila Marta, Red Earth Engineering Brittle Stress Cracking of HDPE Geomembrane Caused by Localised OverHeating of Fusion Wedge Welds	Allan Garrard, CMW Design and Construction Challenges for a 27m High ROM Retaining Wall
11.20am	Lukas Peham, Institute of Polymeric Materials and Testing – Christian Doppler Laboratory – University Linz Global ageing behaviour of a polypropylene random copolymer geomembrane with phenolic antioxidants	Jeroen Berends, Geoinventions Consulting Services Pty Ltd A Performance-Based Design for Large Reinforced Soil Structures and Risk Control Process During Construction
11.40am	Craig Brock, ADE Consulting Group Encapsulation of Insitu Contamination using an Innovative Geosynthetics Solution	Abid Ali, Geofabrics Australasia The bearing capacity of a granular layer on weaker sand and the benefits of mechanical stabilisation

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12.00pm	Warren Hornsey, TRI Australasia Geotextile Protection Efficiency - The relationship between confining pressure and geotextile mass	Phil Ball, Tencate Geosynthetics Asia Innovative Moisture-Managing Reinforcement Geosynthetic for Mechanical and Hydraulic Stabilization
12.20pm-1.20pm	Lunch & opportunity to meet the sponsors and exhibitors	
	PLAZA ROOM 10 & 11	PLAZA ROOM 7 & 8
	Session 1.2 Advances in Geosynthetics for Geo-environmental Application Chair Mr Mike Sadlier	Session 2.2 Advances in Geosynthetics for Reinforcement and Stabilisation Chair Mr Sam Allen
1.20pm	Elissar Mikhael, Monash University Sorption of Per- and Poly-Fluoroalkyl Substances onto the Geotextile Components of the Geosynthetic Clay Liner	Michael Sorensen, Cirtex Industries Ltd Evaluating the benefits of geogrid in pavement and foundation applications with onsite testing
1.40pm	Damien Moodie, Ade Consulting Group Overview of the advances in Geocomposites for the containment of PFAS impacted materials	Kourosh Kianfar, ADE Consulting Group Flexible Reinforced Soil Wall
2.00pm	J.P. Lens, Cooley Group New developments in prevention and protection of water resources. Why PVCEIA alloys are the best choice for long-term, improved performance	Colin Lim, Naue Asia Ultimate resistance of geogrid-reinforced working platforms for tracked plant over cohesive subgrade
2.20pm	Preston Kendall, Axter Australia Advances in Bituminous Geomembrane Welding Methodology	Matteo Lelli, Maccaferri Malaysia Use of site-won soil for reinforced soil soil slopes and walls
2.40pm	Darren Webb, Golder WSP Design of liner system for bauxite residue storage system in desert environment	JP Theron, Huesker Australia Use of Asphalt Reinforcement in Heavily Loaded Container Terminal Pavements
3.00pm-3.30pm	Afternoon Refreshments & opportunity to meet the sponsors and exhibitors	
	PLAZA ROOM 10 & 11	PLAZA ROOM 7 & 8
3.30pm-4.30pm	Keynote Panel Prof Malek Bouazza & Mr John Cowland	Keynote Panel Prof Jorge Zornberg
4.30pm-5.30pm	Poster Session & opportunity to view the posters and meet the authors	
7.00pm-10.30pm	Conference Dinner & Awards Level 12, Rydges South Bank Brisbane Hotel	Proudly sponsored by 

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THURSDAY 9 JUNE 2022

DAY3

8.00am–4.00pm	Registration desk open	
8.00am–5.00pm	Exhibition open Come and visit your industry colleagues. We have 20 exhibitors who have supported GEOANZ #1	Barista cart available, proudly sponsored by 
8.45am–8.50am	Welcome Day 2	
8.50am–9.50am	Keynote presentation Prof Craig Benson Lessons Learned for the Practicing Engineer: How and When Geosynthetic Clay Liners are Effective for Containment	Proudly sponsored by 
9.50am–10.20am	Morning Refreshments & opportunity to meet the sponsors and exhibitors	
	PLAZA ROOM 10 & 11	PLAZA ROOM 7 & 8
	Session 3.1 Advances in Geosynthetics for Mining Chair Mr Siamak Paulson Proudly sponsored by 	Session 4.1 Advances in Geosynthetics for Sustainability, Durability and Innovation Chair Mr Fred Gassner
10.20am	Charles Vuillier, Mincore Using Geotubes for improving the safety of tailings storage facilities and reducing footprint	Zehra Kaya, Huesker Australia A modern approach to traditional geotextile seals: An advanced chipseal grid for highperformance reinforced sprayed seals and field verification in Australia
10.40am	Hermann Ng, Solmax Geosynthetics Co. Ltd. Use of HDPE Vertical Barrier Wall for Remediation of Hazardous Waste Dumpsite	Jong Hao Su, Solmax Geosynthetics Sdn. Bhd. Effective geosynthetics solution for pit thermal energy storage
11.00am	Bilal Enes Taskesti, Monash University Hydration Behavior of Geosynthetic Clay Liners (GCLs) Manufactured with Laboratory Type Needle Punching Equipment	Tom Sangster, Downley Consultants Ltd The Role of Geosynthetics in Combatting the Effects of Global Warming
11.20am	Pascal Saunier, Aftex-texel Geosynthetics Inc. A sensitive mine closure in Canada - analysis after 15 years of completion using a multi-linear drainage geocomposite for surface water collection	Elham Soleimani, Monash University A short overview of microplastics and nanoplastics presence in landfill leachate
11.40am	Liza Du Preez, WSP Golder Sino Iron Case Study: Changing from Composite PE liner system to BGM	Mike Sadlier, GCA Liners and Covers for Reservoirs – Evaluation and Replacement
12.00pm–1.00pm	Lunch & opportunity to meet the sponsors and exhibitors	

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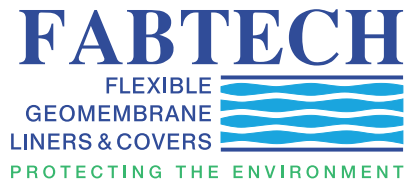
	PLAZA ROOM 10 & 11	PLAZA ROOM 7 & 8
	Session 3.2 Advances in Geosynthetics for Mining Chair Mr Attila Marta Proudly sponsored by 	Session 4.2 Advances in Geosynthetics for Sustainability, Durability and Innovation Chair Mr John Cowland
1.00pm	Marc Amtsberg, Atarfil Australia Challenges in Establishing Longevity Criteria for White/Black Geomembranes in Critical Contaminant Storages	Brett Marais, Desilting Solutions Pty Ltd Spoil management in confined areas with GeoTubes – Case Studies
1.20pm	Amir Shahkolahi, Global Synthetics Performance of Geosynthetic Clay Liners in high risk applications	Graham Fairhead, Fabtech Australia Design Challenges of a Geomembrane Lined and Covered Hot Water Thermal Storage
1.40pm	Edoardo Zannoni, Knight Piésold Geosynthetics in mining applications in Africa	Sam Allen, TRI Environmental, Inc. The Efficiency of Using Air as a Permeant when Testing Hydraulic Properties of Geosynthetics
2.00pm	David Johns, KCB Construction of BGM-lined water supply dam in a very high rainfall and seismic region	Boyd Ramsey, Boyd Ramsey Consulting LLC White Polyethylene Geomembrane: It lasts longer
2.20pm	Ryan Hackney, Geofabrics Australasia Pty Ltd Laboratory Analysis of Durable Geocomposites for Exposure to Elevated Temperatures and Concentrated Brines	Gus Martins, Huesker Australia Subaqueous capping remediation with activated carbon geocomposite in Sydney/ Australia
2.40pm–3.20pm	Afternoon Refreshments & opportunity to meet the sponsors and exhibitors	
	Poster Session & opportunity to view the posters and meet the authors	
	PLAZA ROOM 10 & 11	
3.20pm–4.20pm	Keynote Panel Prof David Williams & Prof Timothy Stark	
	<i>Proud sponsor of Timothy Stark</i> 	
4.35pm	Closing Ceremony Acknowledgement & Thanks Siamak Paulson, President, ACIGS	

POSTER LISTING

#	AUTHOR	AFFILIATION	POSTER TITLE
1	Peter Atchison	PageoConsulting Ltd	Gas resistant membranes, where civil engineering meets construction
2	Jeroen Berends	Geoinventions Consulting Services Pty Ltd	Case study of performance-based design geogrid reinforced mine rom wall
5	Rajesh Bhavsar	Geofabrics Australasia Pty Ltd	Cost optimised solutions for unsealed access roads using geosynthetics
4	Eric Ewe	Geofabrics Australasia	Reinforced soil embankment for shallow landslide protection
5	Mohammad Adnan Farooq	University of Technology Sydney	Application of tyre derived aggregates in railway tracks
6	Ryan Hackney	Geofabrics Australasia Pty Ltd	Bituminous geomembranes in australian conditions
7	Colin Lim	Naue Asia	Geogrids used as subgrade stabilisation - experiences from large- scale field trials
8	Gus Martins	Huesker Australia	Passive soil decontamination by landscaping with permeable geotextile contaminant barriers
9	Gus Martins	Huesker Australia	Geosynthetic concrete mattress for hydraulic applications
10	Gus Martins	Huesker Australia	Passive treatment of acid mine drainage (amd) with active geocomposites
11	Boyd Ramsey	Boyd Ramsey Consulting LLC	Sustainability in the geosynthetics industry: how are we doing - a progress report
12	Mohit Saily	Griffith University	Effect of geosynthetics on swell characteristics of expansive soil in large scale column tests
13	Harini Senadheera	Monash University/SPARC Hub	A novel graphene-based geotextile for use in pavement applications
14	Amir Shahkolahi	Global Synthetics	Behaviour of geosynthetics when used for subgrade and base stabilization based on large scale laboratory and fullscale field tests
15	Amir Shahkolahi	Global Synthetics	Engineered earth armoring solutions for erosion control and surficial stability: a sustainable alternative to hard armoring
16	Jonathan Shamrock	Tonkin & Taylor Ltd	Cusped sheet geocomposite drain as an alternative landfill capping barrier layer
17	Michael Sorensen	Cirtex Industries	Design and construction of "true" load bearing mse bridge abutments, a case study
18	Jong Hao Su	Solmax Geosynthetics Sdn. Bhd.	A review on different types of geosynthetics drainage composites
19	Andy Warwick	Global Synthetics	The environmental benefits of high performance turf reinforcement mats

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