

# SEMINAR INVITE



## Advances in Landfill Design & Specification

### SEMINAR OVERVIEW

**G**lobal Synthetics in association with our partners Naue Geosynthetics (Germany and Malaysia) and Skaps (USA) are pleased to provide world leading speakers in the latest technology of landfill and containment structures and the current best practice in product selection, design, construction and final facility acceptance using geosynthetic products.

Geosynthetics are not new and have been in existence since the mid 1970's. There has been an improved understanding of the function and performance of such geosynthetics during these 40 years of history and field performance. There has been an increased level of use of these products with continued product development, improved design procedures, increasing regulatory governance and the development of more sophisticated research both in the laboratory and in the field to ensure that the selected geosynthetic product fulfills the intended design function over the intended design life.

### SEMINAR HIGHLIGHTS

- Three World Class Speakers delivering to you the latest in research and industry trends in landfill design.
- Some critical aspects that should be addressed with respect to potential puncture of geomembranes with drainage layer installation. Best practice in design of cushioning and relevant performance test methods for protection efficiency. How can these issues be overcome?
- Side wall erosion of bentonite within the geosynthetic clay liner (GCL). How can these issues be overcome?
- Research showing the short term benefits of polymer addition into geosynthetic clay liners (GCL) and the longer term reduction of installed bentonite properties and elution of the polymer. How can these issues be overcome?
- The use of speciality coated geosynthetic clay liners to overcome issues of desiccation, ion exchange issues and gas emission. Latest updates, test results and changes.
- A rationale procedure for design of geonets and geocomposite in drainage (fluids and gases), of landfill bases and caps.
- How to design and monitor, an effective and CQA plan.
- How to reduce the risks and improve the long term performance of the landfill lining system from construction to post closure.

Review our full day programme, read the speaker bio's and register now to learn the latest techniques in the use of a wide range of geosynthetics in landfill.

### DATES & VENUES

#### PERTH

**Monday 6<sup>th</sup> August, 2018**

Hyatt Hotel  
99 Adelaide Terrace, Perth

#### BRISBANE

**Wednesday 8<sup>th</sup> August, 2018**

Pullman Brisbane  
Ann St & Roma St, Brisbane

#### SYDNEY

**Thursday 9<sup>th</sup> August, 2018**

Engineers Australia  
3/8 Thomas St, Chatswood

#### MELBOURNE

**Fri 10<sup>th</sup> August, 2018**

Engineers Australia  
60 Bourke St, Melbourne

**EARN CPD POINTS**

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# About the Speakers

## What to expect

- Excellent relevant topics
- World recognised speakers
- Latest research presented
- Ability to network with peers
- Comprehensive course notes
- Improved knowledge & confidence on the use of Geosynthetics
- A forum, where you can ask the experts
- Morning tea, lunch and afternoon tea provided
- Networking social drinks at completion of the seminar



**Professor Richard Brachman**  
Queen's University, Canada

The phrase 'buried but not forgotten' captures Prof. Brachman's unique expertise on measuring the physical response of geosynthetic liners and buried polymer structures using innovative large-scale experiments, field studies and numerical analysis.

His unique scholarly contributions are related to determining the effects of stress, temperature, chemicals and time on soil-structure interactions that directly impacts how well, and how long, these important components of our buried infrastructure perform their function. Prof. Brachman has made significant contributions on the assessment of service life and long-term strains in geomembranes, as well as geosynthetic clay liner hydration and dimensional stability and the field performance of exposed composite liners. He is a co-author of the prominent book Barrier Systems for Waste Disposal Facilities.

Prof. Brachman and his Team at Queen's discovered, explained, and developed mitigation measures for a failure mechanism called 'down-slope bentonite erosion', where bentonite can erode from the cumulative effects of dissolution and migration with small amounts of condensed water trickling through the geosynthetic clay liner

He has received fourteen Best Paper Awards for works published in the Canadian Geotechnical Journal, Geotextiles and Geomembranes, and Geosynthetics International, in addition the IGS Award from the International Geosynthetics Society. He is currently President of IGS-NA, the North American Chapter of the International Geosynthetics Society. Prof. Brachman has been appointed as a Fellow by the Engineering Institute of Canada, for exceptional contributions to engineering in Canada.



**Boyd Ramsey**  
Principal of Boyd J Ramsey Consulting LLC

Boyd Ramsey has been a leader within the geosynthetic, environmental containment and waste disposal industries. He has a long history as a senior engineer of geomembrane and drainage composite manufacturers. Currently Boyd is the principal of a geosynthetic consulting company specialising in geosynthetics and specifically containment applications across a wide range of situations.

He has been involved with the design and selection of containment systems at several of the world largest cities including New York City at the Fresh Kills Facility, Hong Kong, at the NENT facility and other regional landfills and municipal disposal sites in the United States and around the world.

He is an elected member of the Council of the International Geosynthetics Society, the co-chair of the IGS Technical Committee on Barriers and leads this global organization in the use of geosynthetic barrier materials. He is the past chairman of the Geosynthetic Materials Association the leading industry organisation lobbying for the advancing the use of geosynthetics within the USA and global markets. He served for over a decade on the Board of Directors of the Geosynthetic Institute.

Boyd has been an Industry representative for trade groups, governmental and regulatory lobby efforts and industry research institutes including the national EPA's, national bodies of engineers and other global, national, state and local agencies.



**Kent Von Maubeuge**  
Product Management  
NAUE

Kent von Maubeuge studied civil engineering and also obtained his Master of Science degree.

For more than 25 years, he has been an active member of various associations, such as DIN, CEN and ISO. He is also a member of ASTM International and is especially involved as chairman (D35.04) in standards for GCLs. He also serves as Chairman for CENT189/WG6 Barriers and the Technical Committee IGS Barrier Systems. He has chaired both ASTM past workshops on GCLs as well as the recent ASTM symposium on multi-component GCLs in the States (in 2012). He is also geosynthetic lecturer at the University of Applied Sciences Bielefeld and the University of Applied Sciences Ostwestfalen-Lippe. Kent has published and presented many international papers on geosynthetics and has contributed to numerous conferences as chairman throughout the world and is invited to deliver the "2nd Robert Koerner Distinguished Lecture", during the GeoMEast 2018 in Cairo, Egypt.

For a German geosynthetics manufacturer (NAUE) he is senior Director of Product Marketing/Management and is also involved with international concerns.

Further involvement in the geosynthetic industry includes: Task group leader ISO 221 WG6/PG9 Designing with Barriers, BoA Geosynthetic Institute, IGS Council member and member of the Technical Advisory Committee Geosynthetics (IFAI).

# Programme

TIME	PRESENTATION	SPEAKER
08:00 – 08:20	Registration	
08:20 – 08:30	Welcome & Introduction	<b>Global Synthetics Representative</b>
08:30 – 09:15	Landfill Lining Long-term Performance: Failures and Risks	<b>Kent Von Maubeuge</b>
09:15 – 10:15	Long term performance of composite liners based on field studies	<b>Prof. Richard Brachman</b>
10:15 – 10:30	Morning tea - provided	
10:30 – 12:00	Geocomposite drainage systems for landfill leachate and gas: Design, Installation, MQC, CQA	<b>Boyd Ramsey</b>
12:00 – 13:00	Lunch - Provided	
13:00 – 14:00	Cushion Geotextile: Are designers underestimating the protection afforded by cushion geotextiles to geomembrane liners? A new method of the calculation of strain in a geomembrane will be presented. (Latest findings by Professor Richard Brachman, 2018)	<b>Prof. Richard Brachman</b>
14:00 – 14:30	Filter geotextile in landfill application: From design to CQA	<b>Boyd Ramsey</b>
14:30 – 14:45	Afternoon tea - Provided	
14:45 – 15:30	Latest updates from ASTM Technical Committee-GCLs and IGS Barriers Technical Committee on Testing, Specifying, MQC and CQA	<b>Kent Von Maubeuge</b> <b>Chair of the ASTM Technical Committee-GCLs and IGS Barriers Technical Committee</b>
15:30 – 16:30	Open Forum	<b>All Speakers</b>
16:30 – 18:00	Close, drinks and informal discussion	

## CONTINUING PROFESSIONAL DEVELOPMENT (CPD)

Engineers Australia members can choose to record CPD-hours for attendance at this event in their personal CPD logs. Members should refer to Engineers Australia CPD Policy for details of requirements and conditions [www.engineersaustralia.org.au](http://www.engineersaustralia.org.au)

## CONFIRMATION & TAX INVOICE

An email will be sent to you prior to the seminar confirming your registration and attendance. A Tax Invoice will be issued once payment has been received.

## SEMINAR INFORMATION PACKS

Name tags and seminar material will be distributed to all registered attendees.

## CANCELLATION POLICY

Should you be unable to attend, a substitute delegate is always welcome at no extra charge. Alternatively a refund, less \$150.00 service charge (incl. GST), will be made for cancellations received in writing up to 15 working days prior to the event. Regrettably no refunds can be made less than 15 working days prior to the event.



Global Synthetics Pty Ltd reserves the right to decline a registration at any time and for any reason. Spaces are limited and as such we cannot ensure that all registrations will be accepted however we will notify all parties if we cannot place them in the seminar at the time of their application.

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# Registration

\$420.00 (GST incl.)  
\$360.00 (GST Incl.)

PER DELEGATE  
**EARLY BIRD PER DELEGATE, IF YOU REGISTER  
BEFORE 30.06.2018**

*Price per delegate includes course notes, morning and afternoon teas and lunch. Parking is not included.*

## HOW TO REGISTER

1. Complete the below form and return via:  
**FAX: 02 9725 4304 Or EMAIL: [info@globalsynthetics.com.au](mailto:info@globalsynthetics.com.au)**
2. Register online at  
**[www.globalsynthetics.com.au/seminarinvite](http://www.globalsynthetics.com.au/seminarinvite)**

### REGISTRATION

**Company:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**State:** \_\_\_\_\_

**Postcode:** \_\_\_\_\_

**Phone No.:** \_\_\_\_\_

Please tick which seminar you will be attending:

PERTH 6<sup>th</sup> Aug 2018     BRISBANE 8<sup>th</sup> Aug 2018     SYDNEY 9<sup>th</sup> Aug 2018     MELBOURNE 10<sup>th</sup> Aug 2018

### DELEGATE(s):

<b>1. Name:</b> _____	<b>Title:</b> _____
<b>Phone No.</b> _____	<b>Email:</b> _____
<b>2. Name:</b> _____	<b>Title:</b> _____
<b>Phone No.</b> _____	<b>Email:</b> _____
<b>3. Name:</b> _____	<b>Title:</b> _____
<b>Phone No.</b> _____	<b>Email:</b> _____

### METHOD OF PAYMENT

**EFT:** Account Name : Global Synthetics Pty Ltd BSB: 012-233 Acct No: 4941 31296

**CHEQUE:** Made out to Global Synthetics Pty Ltd, mailed to 41 Sammut St Smithfield NSW 2164, please include completed registration form

**CREDIT CARD:**     VISA     MASTERCARD

Name on card: \_\_\_\_\_

Card Number: \_\_\_\_\_

Exp Date: \_\_\_\_\_

Signature: \_\_\_\_\_

*\*A credit card fee of 2.5% will apply.*

