ecologiQ Showcase

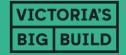
Open for Innovation 2023 Conference Trade Hall

Duy Le, Industry Manager, ecologiQ

I acknowledge the traditional custodians of this land and pay my respects to their Eders past, present and future.











Welcome!

Acknowledgement to our sponsors, partners and presenters.

A QR code for you to connect with us and the featured products will be shared at the end of this event



































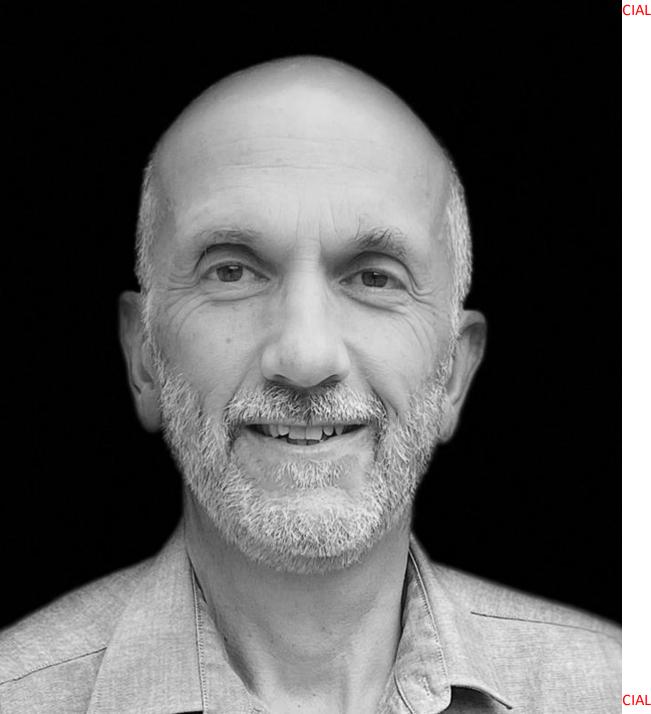












Introducing our panellists

Andrew Papacostas - Principal Engineer -Pavements & Materials, Department of **Transport and Planning Victoria**

Andrew Papacostas is the Principal Engineer – Pavements & Materials within the Department of Transport and Planning Victoria. Andrew has 38 years of experience as a civil engineer in the road building and maintenance industry, 30+ years of which have been specialising in road pavement technology including pavement design, rehabilitation, maintenance including materials testing and the preparation of state and national design guides, specifications and standards.

Shalini Trikha - Technical Manager, ecologiQ Shalini Trikha, Technical Manager, ecologiQ, is an innovative leader with 20 years of experience in delivery of infrastructure projects. She leads the Technical stream and has been driving sustainable engineering solutions to maximise the utilisation of waste and recycled materials. Shalini leads Technical reforms, innovations and research partnerships to increase use of reused and recycled materials across Victorias Big Build. She has been successful in embedding this approach as the "new normal" in infrastructure delivery through collaboration across government and industry.





Shane Cooper - Engineer Manager Track and Civil, V/Line

Shane Cooper is a Mechanical Engineer with 30 years' experience, the last 24 years of which has been in regional rail in Victoria. Shane entered the rail industry with privatization in 1999 managing the Major Periodic Maintenance (MPM) program, and has contributed in the transformation of the network from legacy infrastructure largely unchanged from mid 20th century technology, to the modern railway of today. In the role of Engineering Manager for the Track and Civil discipline for V/Line since 2010, Shane has overseen a range of developments in new technology, systems, and practices on the regional rail network, including novel and innovative track components and structures.

MTIP Road or Rail Director

(provide advice on barriers to design, procurement, delivery or practice)

DTP Representative

(advice on standards & performance requirements)



Technical Manager ecologiQ (identify pathways for adoption)









OFFICIAL

20min Industry Pitch

- √ 10 minute supplier pitch
- √ 10 minute Q&A + advice from panellists















ecologia

Program Highlights 2020—23

PEOPLE AND PARTNERS

We have engaged with a range of stakeholders, industries and suppliers to promote the use of recycled and reused materials.



900 knowledge hub members



900 attended 2022 conference



Held 19 industry events, connecting 67 suppliers with over 90 buyers WE SURVEYED
29 ORGANISATIONS
WHO RATED US:

83%

for supporting businesses

85%

for customer support and communications

ecologia

Program Highlights 2020—23

TECHNICAL INNOVATION AND LEADERSHIP



9X

TRIALS OF NEW PRODUCTS

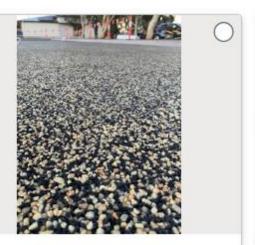
4X

TECHNICAL STANDARDS UPDATED

3X

TECHNICAL STANDARDS
WRITTEN FROM SCRATCH

Innovation Database demo



Product Name

Porous Lane permable pavement

Category

Asphalt & spray seals

Application

Permeable Pavement

Status

5. Implemented

Supplier

Porous Lane



Product Name

Rubber T-Lok Barrier

Category

Fencing, railing & barriers

Application

High speed safety barrier

Status

6. Full Approval

Supplier

Saferoads



Product Name

Recovered carbon black (rCB)

Category

Asphalt & spray seals

Application

Asphalt Additive

Status

4. Validation

Supplier

Entyre



Product Name

Crumb rubber

Category

Asphalt & spray seals

Application

Open Graded Asphalt (OGA)

Status

4. Validation

Supplier

Any



AUSTROADS TECHNICAL SPECIFICATION ATS 3110 Supply of Polymer Modified Binders



Contents	
1.	Scope
2.	Referenced Documents
3.	Definitions
4.	Quality System Requirements
5.	Manufacture of Binders
6.	Sampling and Testing of Binders
7.	Records
8.	Properties of Binders
9.	Frequency of Testing

1. Scope

1.1 Austroads Technical Specification ATS 3110 sets out the requirements for the supply of polymer modified binders (PMBs) and crumb rubber modified binders for use in both sprayed sealing and asphalt applications.

Referenced Documents

2.1 The following documents are referenced in this Specification or are relevant to this Specification:

Australian / New Zealand Standards

Annexure A: Summary of Hold Points, Witness Points and Records.

Methods of testing bitumen and related roadmaking products: determination of dynamic viscosity by rotational viscometer AS/NZS 2341.4:

AS 2341.18: Methods of testing bitumen and related roadmaking products:

determination of softening point (ring and ball method)

AS/NZS ISO 9001: Quality Management Systems: Requirements.







Product Name

Robovoid

Category

Reinforcing

Application

A patented void former invention f...

Status

4. Validation

Supplier

Robovoid



Product Name

StormFLO

Category

Pipes, pits, conduits, subsoil draina...

Application

Pipe (Under trafficable road)

Status

4. Validation

Supplier

Vinidex



Product Name

Replas Civil, Safety and Urban s...

Category

OFFICIAL

Urban design & landscaping

Application

Bollards, Decking, Dog Agility Fenci...

Status

6. Full Approval

Supplier

Replas



Product Name

Future Aggregate

Category

Aggregate & fill

Application

Aggregate alternative designed for...

Status

2. Testing

Supplier

Future Aggregates Pty Ltd







Product Name

Roto plastic noise walls

Category

Noise walls

Application

Roadside, rail and other areas wher...

Status

6. Full Approval

Supplier

Melbourne Rotomould Pty Ltd



Product Name

Noise Barrier Wall & Envire ran...

Category

Fencing, railing & barriers

Application

Bollards, fencing, walkways, noise ...

Status

5. Implemented

Supplier

Integrated Recycling



Product Name

RMP Panels

Category

Noise walls

Application

Noise barriers, construction barrier...

Status

6. Full Approval

Supplier

PACT Group





•Publication no: ATS-4450-23

•Published: 25 May 2023

•Edition: 1.0

Sation: 1.0 May 2003 | page 1





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Status 3. Trial

Supplier Closed Loop

Product Name

Asphalt & spray seals

Pak-Pave

Category

Application

Asphalt Additive

目 Edit in grid view 日 Share 🛛 Export 🗸 强 Automate 🗸 🕀 Integrate 🗸 …

Product Name POLYROK® Category

Aggregate & fill

Application Aggregate replacement in concrete

Status

5. Implemented

Supplier Polyrok Australia



Product Name RMP Panels

Category Noise walls

Application

Noise barriers, construction barriers a...

Status

6. Full Approval

Supplier PACT Group



Product Name TonerPlas

Category Asphalt & spray seals

Application

Asphalt additive

Status

6. Full Approva

Supplier Close The Loop



Product Name Truegrid

Category

Boutique pavement applications

Application

Permeable paving and dust suppressi...

Status

5. Implemented

Supplier

TRUEGRID Australia



Product Name Duratrack

Category

Sleepers & components

Application

Low speed railway sleeper

Status

6. Full Approva

Supplier

Integrated Recycling



⊞ All Items ∨ ∇ ①

Product Name

Noise Barrier Wall & Envire range...

Category

Fencing, railing & barriers

Application

Bollards, fencing, walkways, noise wal...

Status

5. Implemented

Supplier

Integrated Recycling



ecologiQ Innovation Database \$\pi \@

Product Name Patent pending Bar Chair

Category

Reinforcing

Application A 50-65mm Bar Chair used in concret...

Status

2. Testing

Supplier Transmutation



Category Stabilisation

Application Stabilising of sub surface pavement I...

Status

1. Exploration

Supplier Renolith



Product Name Rubber T-Lok Barrier

Category

Fencing, railing & barriers

Application

Supplier

Saferoads

High speed safety barrier Status

6. Full Approva



Product Name Replas Civil, Safety and Urban sol...

Category

Urban design & landscaping Application

Bollards, Decking, Dog Agility Fencin... Status

6. Full Approva

Supplier Replas



Product Name Roto plastic noise walls

Category Noise walls

Application Roadside, rail and other areas where ...

Status

6. Full Approva

Melbourne Rotomould Ptv Ltd



Product Name

Beautiful Sustainable Curved Con...

Category Concrete

Application Structural and non structural architec...

Status 5. Implemented

Supplier

Curvecrete



Product Name GreenPave Asphalt Range

Category Asphalt & spray seals

Application

Asphalt mixes containing a variety of ...

Status 5. Implemented

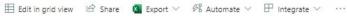
Supplier

Citywide Asphalt Group (AUS) Pty Ltd



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Product Name GT Fibrecrete

Category Concrete

Application

Reinforcement for non-structural con...

Status

4. Validation

Supplier GT Recycling



Product Name Megaflo Green

Category Pipes, pits, conduits, subsoil drainage...

Application

Flexible subsoil drainage

5. Implemented

Supplier Geofabrics



Product Name Recycled Fibre Hi Vis Vest

Category

Uniforms, workwear & PPE

Application

High visibility orange and yellow pers...

Status

6. Full Approval

Supplier Assembled Threads



Product Name Stormwater Pits

Category

Pipes, pits, conduits, subsoil drainage...

Application

Vicroads approved stormwater pit co...

6. Full Approval

Supplier SVC Products Pty Ltd



Thermally Treated Soils

Category

Aggregate & fill

Application

Road base and general fill

Status

2. Testing

Supplier Suez Earthsure



Product Name Ambiolock PFAS Control

Category

Material processing services

Application

Reuse/recycling of materials, such as ...

2. Testing

Supplier: KiStrategies Pty Ltd



Product Name

Coharo Coatings & Tecoblock

Category

Building

Application

Levelling coat and Building blocks

5. Implemented

Supplier

Casafico



Product Name Durra Panel

Category

Building

Application Wall and ceiling panel

Status

5. Implemented

Supplier Ortech



Product Name **EKO Pipe**

Category Pipes, pits, conduits, subsoil drainage...

Application

Reinforced concrete piping under load

Status

6. Full Approval

RCPA (Reinforced Concrete Pipes Aus...



Product Name **EKO Soil stabilisers**

Category Stabilisation

Application

Pavement and road base stabilisation...

Status

3. Trial

Centre for Pavement Excellence Asia ...



Product Name Ensmart Power Conversion & Ene...

Category

Site establishment, safety & office pr...

Application

An EV Container that would be equiv...

1. Exploration

Status

Social Outcome Solutions Procurement



Product Name Recycled Concrete Aggregate (RC...

Category Concrete

Application

Aggregate replacement in structural ...

Status 4. Validation

Supplier Hanson



Product Name Resin8 eco-aggregate

Category Aggregate & fill

Application Fine aggregate replacement in concr...

Status 2. Testing

Supplier CRDC Global



Category Reinforcing Application A patented void former invention for ...

Status 4. Validation

Robovoid

Supplier

Robovoid

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Product Name **OMNIGRIP HF**

Category Aggregate & fill

Application Surface Treatment

Status

4. Validation

Supplier OmniGrip

Product Name

Aggregate & fill

Category

Application

Backfill

Status

Supplier

Any

Recycled materials in backfill



Porous Lane permable pavement

Category Asphalt & spray seals

Application Permeable Pavement

Status

4. Validation

Supplier Porous Lane



Pipes, pits, conduits, subsoil drainage...

Pipe (Under trafficable road)

Product Name Recycled PVC Conduit

Category Pipes, pits, conduits, subsoil drainage...

Application Conduit Pipes

Status

6. Full Approval

Supplier Vinidex



Fibre Reinforced Geopolymer bri...

Category Concrete

Product Name

StormFLO

Category

Application

4. Validation

Status

Supplier

Vinidex

Application

Status

Supplier Austeng



Product Name Bio-Binder

Category

Asphalt & spray seals

Application Binder

Status

4. Validation

Supplier

Puma Bitumen



Product Name Eco Lite

Category Aggregate & fill

Application

Status

Supplier Expanded Glass Technologies

Lightweight granules and gravel



Product Name Crumb rubber

Category

Asphalt & spray seals

Application Open Graded Asphalt (OGA)

Status

4. Validation

Supplier Any

Product Name

Hydromulch

Topsoil, mulch & organics

Using Hydromulch to rebuild soil car...

Category

Application

4. Validation

Status

Supplier

EnviroStraw



Glass in dense graded asphalt

Category

Asphalt & spray seals

Application Dense Graded Asphalt (DGA)

Status

6. Full Approval

Product Name

Category

Application

Status 1. Exploration

Supplier

Salix

Infinity Composite Sleeper

Sleepers & components

Mainline Railway Sleeper

Supplier Any



Recovered carbon black (rCB)

Category

Asphalt & spray seals

Application

Asphalt Additive

Status

4. Validation

Supplier Entyre

Product Name

Eco Site Safety Products

Category

Site establishment, safety & office pr...

Application

Site safety bunting, tape and flag poles

Status

5. Implemented

Supplier Cacti Conserve

























































































































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Thank you