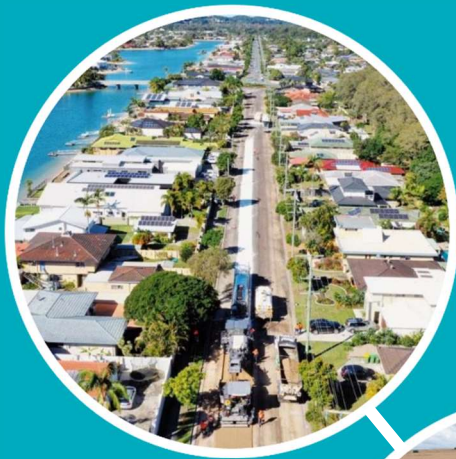




Pavement Recycling and Stabilisation Association

AustStab Annual Report 2021/2022



**Creating sustainable roads
for future generations**

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About AustStab

AustStab Limited is the *Australian Pavement Recycling and Stabilisation Association*. It is a not-for-profit industry association established in 1995 to help provide a unified approach to the recycling and stabilisation of road pavements and to develop national standards of research and performance.

AustStab collaborates across the industry working with interested parties to:

- Promote the benefits of pavement recycling and stabilisation
- Review and develop specifications and work towards their national harmonisation
- Provide training and education
- Undertake research and trials
- Publish technical guidelines
- Set quality standards of workmanship, and
- Identify and advocate for best practice in health, safety and environmental practices.

AustStab has been instrumental in bringing together the experience of road authorities, contractors, consultants and suppliers to develop unified specifications, design and construction methods and quality standards. Pavement recycling and stabilisation has developed under the stewardship of AustStab to become a sophisticated pavement management process undertaken utilising specialised plant and equipment. Modern processes are capable of the full range of pavement recycling and stabilisation, including deep-lift construction, and can deliver a range of benefits to pavement design and road maintenance engineers.



AustStab Members (2021/2022)

Category A – Full Contracting Members	Geotech or Consulting – Multi State Members	
Downer Australia	Aurecon Group	
Hiway Stabilizers	Australian Soil and Concrete Testing	
Stabil-Lime Group	Coffey Testing	
Stabilised Pavements of Australia	Construction Sciences	
THE Mining	Tonkin	
Category B – Full Contracting Members	Geotech or Consulting – Single State Members	
Stabilco	Aitken Rowe Testing	
WA Stabilising	Allan Bowman	
Category C – Full Contracting Members	Durkin	
Accurate Asphalt & Road Repair	Ground Science	
AWC	GR Webb Consulting	
Bild Group	Head to Head International	
Stabilcorp	Pavement Asset Services	
Trico Asphalt	Pavement Technology Centre	
Category D – Full Contracting Members	Affiliate – Institutional Members	
Gencon Civil	Centre for Pavement Engineering Education	
Category E – Full Contracting Members	Department of Transport (Victoria)	
RoadTek	Infrastructure, Planning and Logistics (NT)	
Category A – Construction Material Members	Main Roads (Western Australia)	
Boral Cement	State Growth (Tasmania)	
Cement Australia	Transport & Main Roads (Queensland)	
Graymont	Transport for NSW	
Independent Cement & Lime	William Adams	
Sunstate Cement	Affiliate – Individual Members	
Wagners Cement	Donald Cameron	
Category B – Construction Material Members	John Figueroa	
Colas	Honorary Members	
Viva Energy	Robert Andrews	Greg Murphy
Category C – Construction Material Members	David Berg	Jothi (Rama) Ramanujam
Interchem	Mal Bilaniwskyj	Paul Richie
Supporting Contractor Members	Thomas Curnow	Warren Smith
All Pavement Solutions	Peter Evans	Max Wallis
Associate Members	Errol Jones	Phil Walter
Astec	Paul Keane	Tom Wilmot
Caterpillar		
Wirtgen		

Membership Changes

AustStab membership has remained relatively stable over the 2021/2022 period with a small net gain in numbers.

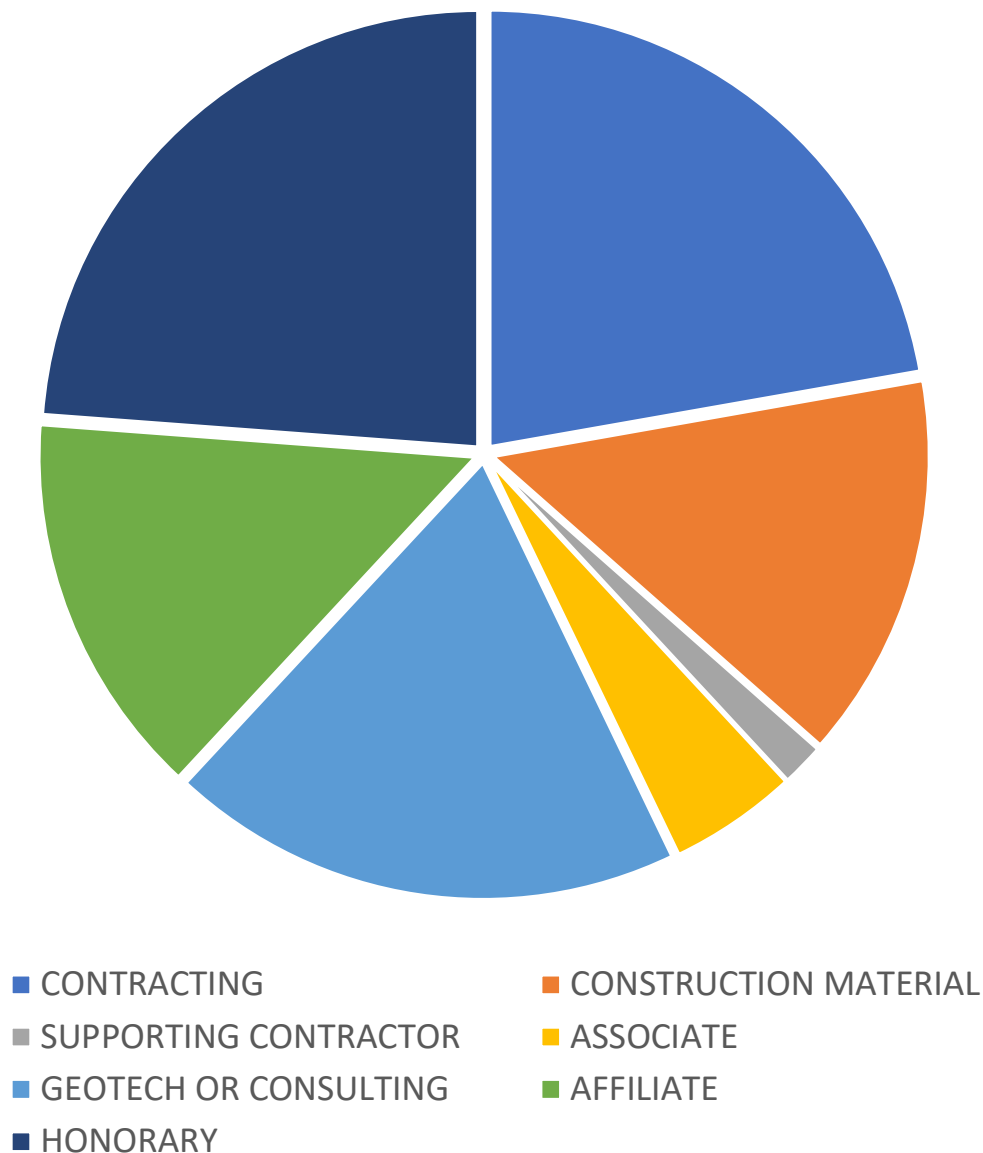
We welcomed the following, who were approved for membership of AustStab in 2021/2022:

- Australian Soil and Concrete Testing (Geotechnical or Consulting Member – Multi State)
- Donald Cameron (Affiliate – Individual)
- Centre for Pavement Engineering Education (Affiliate Member – Institutional)
- Ground Science (Geotechnical or Consulting Member – Single State)
- GR Webb Consulting (Geotechnical or Consulting Member – Single State)
- Pavement Technology Centre (Geotechnical or Consulting Member – Single State), and
- Tonkin (Geotechnical or Consulting Member – Multi State).

Unfortunately, we also said goodbye to the following members:

- Faherty Civil Contractors (Category D – Civil Construction Contracting Member), and
- Terra Systems (Category C – Construction Materials Suppliers).

Membership Breakdown



President's Report



On reflecting upon my first year as AustStab President, the past year highlights how we have been adjusting our focus and direction to transition out of the impacts of COVID-19 whilst at the same time, ensuring AustStab is positioned to advocate our clear alignment with sustainable outcomes and cost-effective asset management solutions.

In doing so, our association is transitioning itself to align with the following key opportunities and outcomes:

- Improved awareness of our industry's capability, and the benefits of pavement recycling
- In an era of greenwashing within the construction industry, articulating the benefits of what our members can provide, including reduced CO₂ emissions, reduced waste, reduced use of virgin materials and reduced use of fossil fuels
- Continuing to provide education solutions for asset owners, designers and the next generation of pavement engineers on how to recycle pavements with long asset life, and
- Targeted strategies to enhance existing stakeholder relationships and develop new relationships with key partners.

The past year has seen adjustment in our key internal contributors towards AustStab, and we continue to welcome new influencers within the industry. Through these contributions, some of the methods we have employed to progress target outcomes include:

- Development of 3-year Strategic Plan and Key Stakeholder Engagement Plan, both of which are endorsed by AustStab Council and managed by our Executive Committee
- A committed, active and passionate Executive Committee
- Continued development of both our national working groups (Technical Working Group and Marketing and Promotions Working Group), and
- Renewed activity within various key state working groups.

The impacts of COVID-19 on our association have been mixed, and without elaborating in detail, the move towards online meeting environments has made us more collaborative with more effective and regular communication. However, we have also seen the negative impacts from a pause in face-to-face education and face-to-face conferencing and networking.

Financially, AustStab incurred a loss of \$14,791 for the 2021/2022 financial compared to a budgeted operating profit of \$7,599. There are a number of contributing factors for this result with the postponement of the 2021 conference being the primary contributor. For the 2022/2023 financial year, we have a slightly more conservative budget with a trading profit of \$1,487.

As noted above, the effectiveness of AustStab in representing and advocating on behalf of members is only ever as strong as the voluntary contribution of our members and it is important to thank those who have contributed throughout the year. The benefits of contribution not only provide outcomes for the Association, but can often enhance individual member opportunities and advantages. In considering this perspective, we would welcome any additional volunteers.

I would like to thank our CEO, Stuart Dack for his ongoing contribution towards our targeted objectives and importantly, the statesman-like way in which he represents AustStab throughout industry and amongst stakeholders. Additionally, thanks to Kristy Reynolds for her efficient and seamless contribution towards the business administration of AustStab.

On the volunteer front, thanks to all that have contributed throughout the year. It is enjoyable to work collaboratively with a passionate group who have a strong and diverse skillset and interest base. In addition, I would like to acknowledge the following key voluntary contributors:

- Simon Abrahams, who is not only AustStab Vice President, but is also both the Marketing and Promotions Portfolio Lead and the South Australian Working Group Chair
- Allen Browne, who occupies a position on our Executive Committee and is also the Technical Portfolio Lead – a portfolio that continues to deliver on a large action list, including attendance and influence within Austroroads committees, and
- Scott Young, who convenes the Technical Working Group and is a core presenter of the AustStab/CPEE Stabilisation Fundamentals training course.

As we look ahead, after 3 years in the planning and several COVID-related false starts, in August we will proudly host Australia's first *Pavement Recycling and Stabilisation Conference*. The inaugural conference theme is *Pavement Recycling for Sustainable Roads* and will showcase a broad range of our industry and members with a strong focus on sustainability and asset management. We see this conference as a key method for providing industry with education and awareness and look forward to building on the influence of this event in the coming years.

Into the back end of 2022 and early 2023, we will be continuing to pursue key initiatives with various state road authorities, build our influence with local government and pursue the need to educate industry on how to they can maximise their sustainable outcomes through pavement recycling.

Thanks to those who continue to provide their passion towards our industry and I look forward to what we can collectively achieve over the next 12 months.



Daniel Orriss
President



CEO Report



As I said a year ago, it's again been a challenging twelve months due to the impact of the ongoing pandemic. It has been pleasing though to see an easing of restrictions and the opening of state and international borders over the course of 2021/2022. As an organisation, AustStab will be aiming to re-establish face-to-face activities as soon as possible. In this regard, AustStab members will be looking forward to attending the upcoming *Australian Pavement Recycling and Stabilisation Conference* in Sydney on 10th August. This event is now up to its fourth official date following rolling postponements during the pandemic, so we'll all be grateful to eventually gather to discuss recent developments in stabilisation.

However, not all activities are returning to normalcy as fast as we'd like – the Stabilisation Fundamentals courses have frustratingly remained predominantly online with fewer courses and less attendees over the last twelve months. This not only impacts our training income, but more importantly adversely affects our ability to bring pavement engineers up to speed on stabilisation practice. Over the coming months I'll be working with the team at the Centre for Pavement Engineering Education (CPEE) to explore options to recommence regular face-to-face courses as soon as we can do that safely. Our relationship with CPEE is an important one and, as you'll see later in this report, we have been in discussions with them to review our Memorandum of Understanding and to look for opportunities to improve the current course and to develop more advanced courses on Design and on Construction. It was also pleasing to recently be able to welcome CPEE as a new member of AustStab.

On the subject of new members, we were able to welcome several new companies and individuals to AustStab ranks during the year, several of whom are already providing significant contributions in our various working groups. The working groups have all been very active this year and maybe the move to on-line meetings has facilitated more involvement, so we can count that as a positive outcome of the pandemic! Of particular note is the progress being made by the Technical Working Group under the guidance of Allen Browne and Scott Young. The Technical WG has been productively working through a very challenging task list with several new or revised key technical documents due to be published soon. Also of note is the work of the Marketing and Promotions Working Group under the guidance of Simon Abrahams. This WG has taken on communication of sustainability benefits as its leading task, an initiative that will be of growing importance as asset owners increasingly see the need to fully consider sustainability outcomes in their decision-making processes. In support of this direction, AustStab has joined the Infrastructure Sustainability Council to help drive our influence in this key area and recently was appointed as a member of their Sustainable Materials Technical Working Group. A related activity and of particular importance to stabilisation activities in Victoria has been our work with Ecologiq. As you will see later in this report, over the course of 2021/2022 and with the support of the Ecologiq team, we have been able to advance the cause of pavement recycling and stabilisation with the Department of Transport in Victoria. Our work with other state road agencies continues to be a focus. It has been particularly pleasing to see the cooperation taking place within the newly formed South Australia Working Group where Department for Infrastructure and Transport representatives have been regular working group meeting attendees.

The 2021 AustStab Awards of Excellence were another unfortunate victim of the pandemic. Due to the postponement of our conference the Awards moved to an online event. This meant we weren't able to fully celebrate what was an outstanding set of nominations and award recipients. Hopefully you will have seen our communications highlighting the winners and highly commended awards – these have all been listed later in this report if you did miss them. This year we're looking forward to getting back to an in-person awards presentation after missing 2020 completely and going online for 2021. Our Gala Dinner and Awards Night will also be a belated opportunity to thank outgoing President Stewart Geeves, who finished his term last year, and to properly welcome Daniel Orriss after his first full year as President.

Thank you to all the members for your continuing strong and friendly support and engagement in Association activities and programs and to the AustStab Councillors for your ongoing support and guidance. Special thanks must go to the Executive Committee members who have once again provided effective and efficient day-to-day management of Association matters on behalf of the AustStab Council.

Finally, and more importantly than anything else, I must acknowledge the exceptional and ongoing support of our Administration Manager, Kristy Reynolds, who continues to quietly and efficiently manage the administration of our Association. I've lost count of the number of 'Teams' meetings we've had or otherwise been involved in during the year and am looking forward to actually catching up in person at our conference!

I look forward to working with our members and key stakeholders in the year ahead and hopefully more often in person than online!



Stuart Dack
Chief Executive Officer
AustStab Limited



Strategy and Objectives

AustStab primarily exists to educate and inform pavement asset owners about the key benefits of and, where appropriate, influence the uptake of pavement recycling and stabilisation based on extensive technical and operational knowledge and experience, and on quantified economic, sustainability and social benefits. AustStab aims to deliver these objectives through training, educational and promotional programs and by establishing and maintaining AustStab as the centre of technical and operational excellence within the industry.

In 2020/2021 AustStab Council undertook a strategic review with the key objectives to:

- Reset the strategic direction of AustStab consistent with current and future market trends and key stakeholder needs
- Provide a clear vision and strategic plan to grow the utilisation of pavement recycling and stabilisation in pavement construction and maintenance and related works
- Outline the required organisational structure and resources required for delivery of the plan
- Develop strategic objectives that clearly define the priority programs and tasks to be implemented across all AustStab activities, including those of both national and state working groups, and
- Provide a framework for better coordination and greater collaboration across AustStab and with key stakeholders and industry groups.

“A compelling theme within the strategic purpose of AustStab is to promote the need to recycle existing materials and utilise stabilisation technologies to deliver engineering, sustainability and social benefits in the construction and maintenance of pavement and civil infrastructure assets.”

In 2021/2022 the focus has been on the implementation of the updated Strategic Plan. As a key outcome of the strategy review, a revised organisational structure was implemented that would more efficiently and effectively deliver the AustStab strategic objectives – principally around the key pillars of:

- Technical & Operational Excellence
- Education
- Information, and
- Influence.

This implementation is centred around the formation of key national working groups whose purpose is to deliver key programs under the portfolios of:

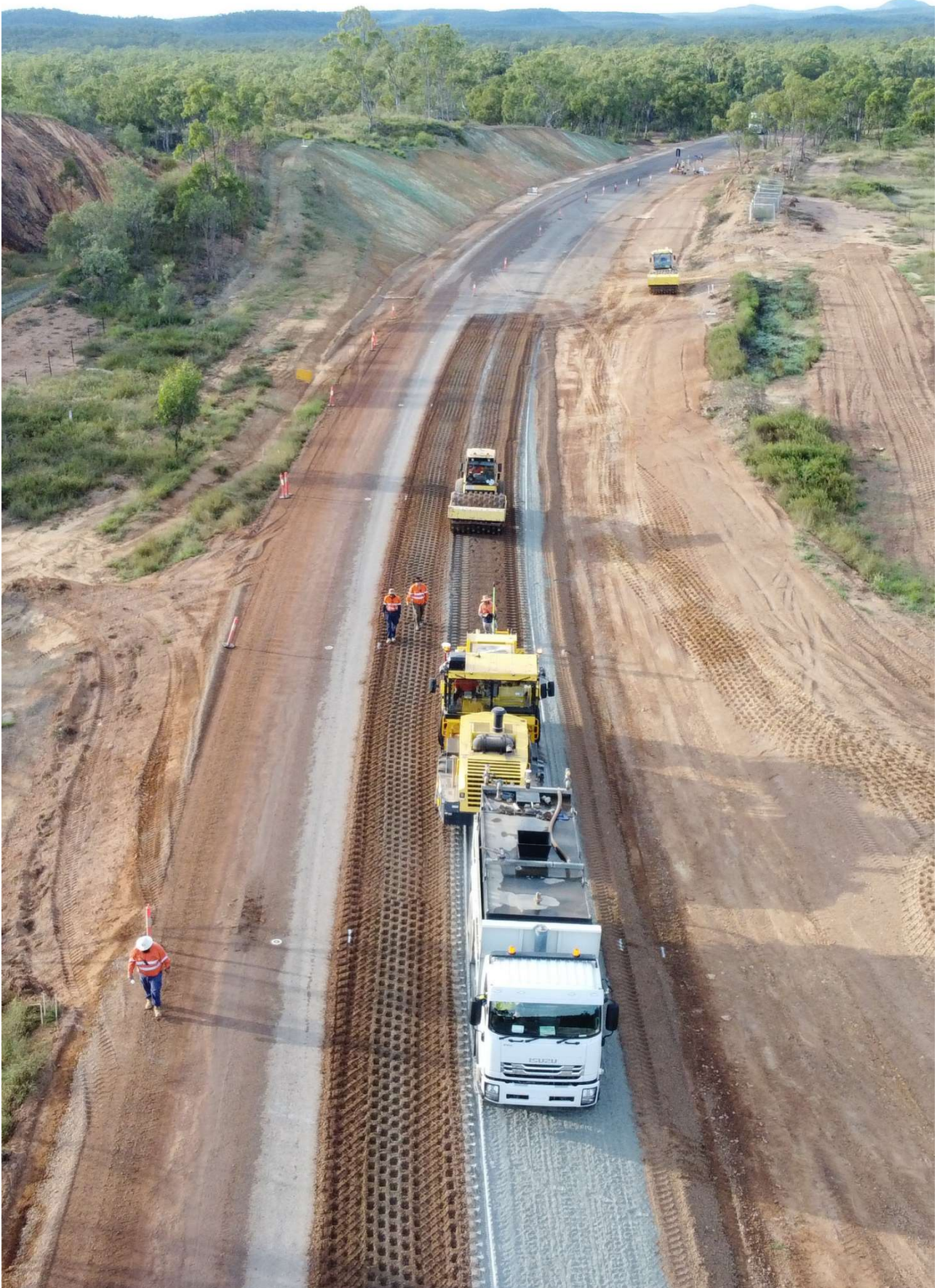
- Technical
- Marketing and Promotions, and
- Training and Education.

More on the organisational restructure is provided later in this report.

Structure and Management

AustStab Council

Name	Company	Membership Category	Period
President			
Daniel Orriss	SPA	Category A – Full Contracting	25/07/2018 +
Vice President			
Simon Abrahams	Downer	Category A – Full Contracting	13/02/2020 +
Company Secretary			
Stuart Dack	AustStab	CEO and Company Secretary	24/07/2019 +
Councillors			
Stuart Billing	Downer	Category A – Full Contracting	13/02/2020 – 18/11/2021
John Boocock	Hiway Group	Category A – Full Contracting	28/02/2013 +
Joseph Borg	Graymont	Category A – Construction Material	24/07/2019 – 30/06/2022
Allen Browne	Hiway Group	Category A – Full Contracting	25/07/2018 +
Heath Curnow	Stabil-Lime	Category A – Full Contracting	23/10/2008 +
Tom Curnow	Stabil-Lime	Category A – Full Contracting	23/10/2008 +
Tony Egan	Downer	Category A – Full Contracting	16/03/2022 +
Stewart Geeves	AWC	Category C – Full Contracting	11/10/2005 +
Marcia Kelly	THE Mining	Category A – Full Contracting	27/08/2020 +
David Lansbury	THE Mining	Category A – Full Contracting	27/08/2020 +
Christopher Lunson	RoadTek	Category E – Government Contracting	27/08/2020 +
Peter Metcalfe	WA Stabilising	Category B – Full Contracting	26/11/2020 +
Craig Pinson	Stabilcorp	Category C – Full Contracting	18/06/2020 +
Nigel Preston	Viva Energy	Category B – Construction Material	27/07/2017 +
David Scicluna	Accurate	Category C – Full Contracting	28/08/2014 +
Warren Smith	SPA	Category A – Full Contracting	30/04/1999 +









The Queensland Department of Transport and Main Roads' stabiliser onsite at the Gregory Development Road reconstruction and widening project in Greenvale, approximately 200 kilometres north of Charters Towers.
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Council Meeting Attendance Record

Council Members	18/08/21	28/10/21	22/02/22	28/04/22	23/06/22
Simon Abrahams	✓	✓	✓	✗	✓
Stuart Billing	✓	✗	n/a	n/a	n/a
John Boocock	✓	✓	✓	✗	✓
Joseph Borg	✗	✗	✓	✓	✓
Allen Browne	✓	✗	✓	✓	✗
Heath Curnow	✗	✓	✗	✓	✓
Tom Curnow	✗	✗	✗	✗	✗
Stuart Dack	✓	✓	✓	✓	✓
Tony Egan	n/a	n/a	n/a	✓	✓
Stewart Geeves	✓	✓	✓	✓	✓
Marcia Kelly	✓	✓	✗	✓	✓
David Lansbury	✓	✗	✓	✓	✗
Christopher Lunson	✓	✓	✓	✓	✗
Peter Metcalfe	✓	✓	✓	✗	✓
Daniel Orriss	✓	✓	✓	✓	✓
Craig Pinson	✓	✗	✗	✗	✗
Nigel Preston	✓	✓	✓	✓	✗
David Scicluna	✓	✓	✓	✓	✗
Warren Smith	✓	✓	✓	✓	✗

Councillor Biographies

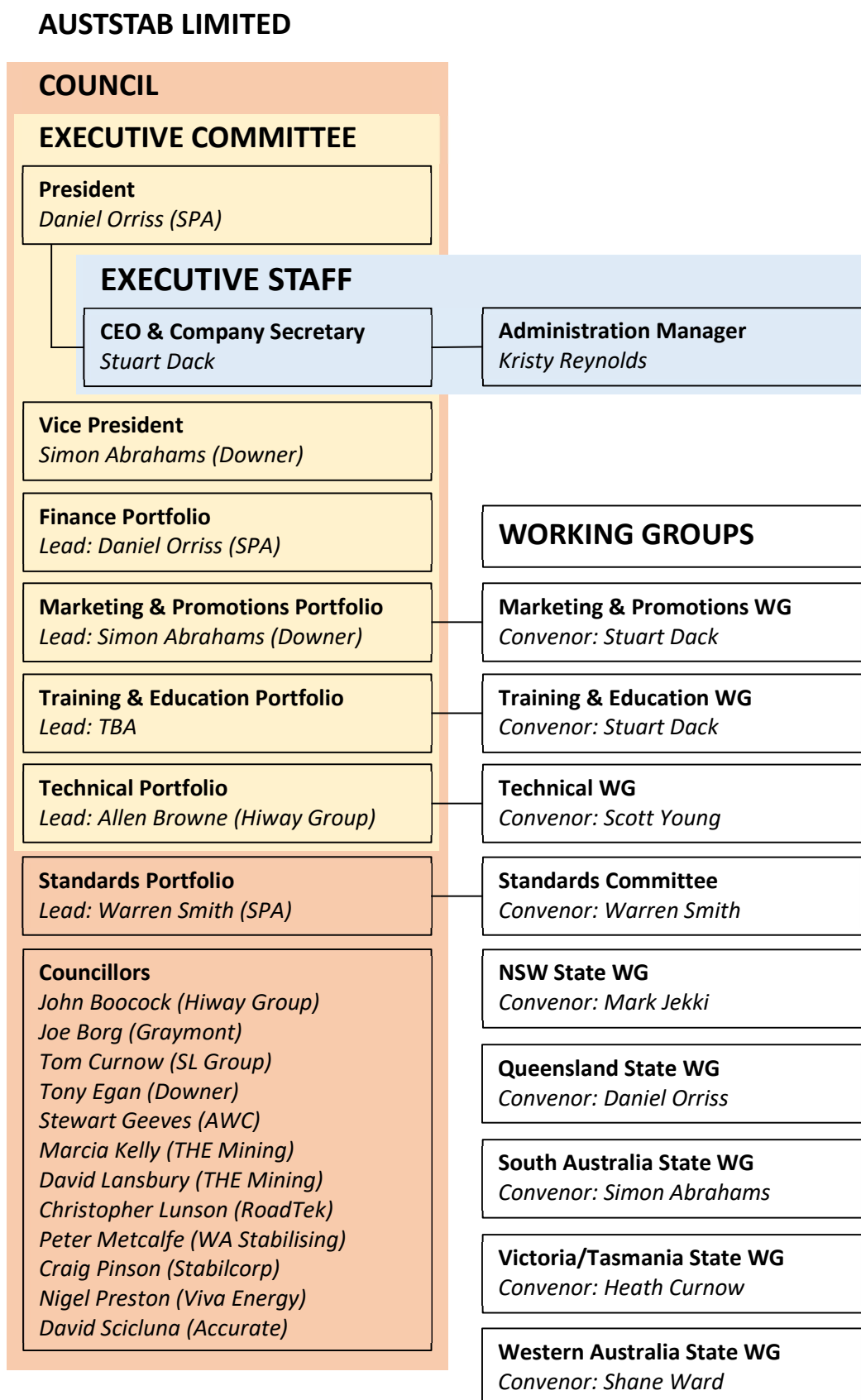
	<p>Daniel Orriss – President</p> <p>Daniel is Executive General Manager for Stabilised Pavements of Australia and has been an AustStab Councillor, Vice President from 2018 to 2021, and is now President.</p> <p>Daniel has a passion for the stabilisation industry and has been a steady contributor towards AustStab for over 10 years through roles including current chair of the NSW Working Group, previous chair of the Training and Promotions Working Group and a regular presenter of the face-to-face CPEE courses on Stabilisation Fundamentals.</p> <p>Daniel is also proud to declare himself a two-time winner of the prestigious AustStab golf cup!</p>
	<p>Simon Abrahams – Vice President</p> <p>Simon is National Manager of the Airports, Specialist Pavements and Pavement Rehabilitation Group at Downer and is the current AustStab Vice President.</p> <p>With more than 30 years' experience delivering engineering and construction projects across Australia, Simon brings a wealth of expertise in both traditional civil construction and specialised pavement recycling projects, servicing a wide range of asset custodians across the transport and related industries.</p> <p>Actively seeking best-for-industry solutions, upholding exceptional professional values, and taking his teams on a journey of innovation and sustainability, strong safety focus, and high-quality delivery, are all hallmarks of Simon's leadership style.</p>
	<p>Stewart Geeves – Immediate Past President</p> <p>Stewart is Project Manager at Andrew Walter Constructions (AWC). Prior to commencing work with AWC in 1996, Stewart worked for the Tasmanian Department of Main Roads spending periods in road design, bridge and hydraulic design and carrying out geotechnical and pavement investigations and pavement design. He also spent 6 years in construction works with the DMR/DoC/Works Tasmania in Ulverstone.</p> <p>As part of his work with AWC, Stewart has been involved in all facets of project management, design and construction associated with roadworks. He was there at the start of AWC's work in road pavement and subgrade stabilisation in 1996 and remains actively involved in stabilisation projects including scoping, quoting and supervision to this day.</p> <p>Stewart has been a board member of the Civil Contractors Federation Tasmania for many years and a Director of AustStab since 1998, including the being President from 2018 to 2021.</p>
	<p>John Boocock</p> <p>John is the Managing Director at Hiway Group. He is a pioneer of stabilising with over 35 years' experience in the industry, having started his career in the small Hiways family business founded in 1986 that is now one of the largest stabilising businesses in Australasia.</p> <p>John has been heavily involved in every facet of stabilisation from the ground up and his focus now is on recycling, using what's available in the best way possible.</p>
	<p>Joseph Borg</p> <p>Joe is the Sales Manager North – NSW for Graymont and has over twenty years' experience driving market and share growth in designated territories. Over the last eight years Joe has been involved in multi-minerals sales with a focus over the last three years specifically on lime and limestone products into the stabilising, manufacturing and water treatment industries. Prior to this, Joe held national sales roles in the concrete and cement sectors and held major account management roles within the waste industry at Cleanaway. Joe has a diversified skill set over several industries and organisations, originally coming from a retail optical background over a range of roles with the retail optical giant OPSM.</p> <p>Joe grew up loving the mighty South Sydney Rabbitohs and aligns with their working-class roots.</p> <p>Joe has an Advanced Diploma in Optical Dispensing, Diploma of Management, Diploma Information Technology, and certification in use of Progress V8 Database.</p>
	<p>Allen Browne</p> <p>Allen is the Executive General Manager Technical & Innovation with the Hiway Group and heads the professional services team providing technical guidance for research, design and construction operations throughout Hiway's divisions in New Zealand and Australia where there are many differences in design/construction protocols and specifications.</p> <p>Allen is an active member of a number of industry groups including the National Pavements Technical Group in NZ and AustStab, where he has been a Councillor for several years and contributes as the AustStab Technical Portfolio Lead to the recently implemented AustStab Technical Working Group.</p> <p>Pre-COVID Allen visited Australia more than 30-times for work in 2019 and the Oz accent is coming along nicely!</p>

	<p>Heath Curnow</p> <p>Heath is the Business Development Manager of the Stabil-Lime group of companies, the core business of which is stabilisation and road recycling and is also vertically integrated to include road surfacing and maintenance activities.</p> <p>Based out of Victoria, Heath has been involved in stabilisation works across Australia, particularly in Victoria, NSW, WA, NT and SA. From starting out operating spreaders and mixers 30 years ago, Heath went on to gain an engineering degree with honours from Monash University, then went on to work in the UK stabilising and earthworks industry for several years before returning to Melbourne and joining the Stabil-Lime group 20 years ago.</p> <p>Heath served as AustStab President for 3 years from 2013 to 2015, has chaired several AustStab working groups and still serves on the AustStab Council.</p>
	<p>Tom Curnow</p> <p>Tom is the CEO of the Stabil-Lime group of companies. Tom has over 40 years' experience in the stabilising industry, including design of pavements and subgrade stabilisation. He is a founding member and Past President of AustStab, having served in that role from 2003 to 2005 and still serves on the AustStab Council.</p>
	<p>Tony Egan</p> <p>Tony has been in the Civil Engineering and Construction industry for 30 years. His current role is Construction Manager for the Downer in their Victoria/Tasmania Road Rehabilitation section in Road Services. He has worked in Ireland, Europe and Southern Africa, but has spent the last 10 years in Australia dividing time between Western Australia and Victoria. His experience has run the gamut from tunnelling to road and building construction. He is a qualified engineer with a Masters in Contract Law.</p>
	<p>Marcia Kelly</p> <p>Marcia has a diverse work history in both Australia and abroad with high-level experience in leadership and management roles, including management of multimillion-dollar projects, people and human resources, HSEQ, and workforce development and training across multiple industry sectors, including mining, civil and building construction, oil and gas, and Government.</p> <p>Marcia brings particular expertise in safety audits, investigations and compliance, Government liaison, stakeholder management and tender development and has comprehensive knowledge of finance, management, business, organisational development, and staff management.</p> <p>Marcia thrives in challenging environments and through her experience as both a CEO and Project Director in an international environment, brings high level communication, consultation and negotiation skills and engagement experience in liaison with Government, national and international companies and clients, along with an enjoyment in building team and company capability.</p>
	<p>David Lansbury</p> <p>David is an entrepreneurial, innovative senior-level operations manager with diverse industry experience across manufacturing, call centre operations, sales and distribution.</p> <p>David brings particular skills in operations management, driving performance, strategic leadership, client and vendor management, and the training and development of staff to accomplish operational excellence.</p>
	<p>Christopher Lunson</p> <p>Chris is an Executive Director with RoadTek, a commercial contracting business within the Queensland Department of Transport and Main Roads (TMR). Chris has over 20 years' experience, specialising in civil construction, project, program and business management. Through experience in managing various projects and operations across Queensland, Chris has developed an approach based on relationships, optimisation and leadership.</p>

	<p>Peter Metcalfe</p> <p>Peter is the Chief Executive Officer at Hiway Group, with experience spanning over 34 years in the infrastructure sector covering capital construction, road maintenance, quarrying, pavement stabilisation, geotechnical and asphalt manufacturing, with extensive experience in the New Zealand and Australia infrastructure industry over the last 10 years.</p> <p>With an entrepreneurial flair from multiple own business operations combined with senior leadership and executive positions in large corporates, Peter has been able to deliver an outstanding track record of achievement, including business transformations, organisational growth and industry governance.</p> <p>Peter brings a high level of technical, operational and commercial experience enabling him to provide inspirational business leadership and strategic direction, and as a driven professional, is a highly respected, relationship orientated, visionary senior leader.</p>
	<p>Craig Pinson</p> <p>Craig first started in business in 1986 in Sydney NSW undertaking small excavations and concreting works with a small team of four. After moving to the Mid-North Coast of NSW in 1990, Craig started subcontracting to Local Government in road maintenance. By early 2000, his business expanded into larger civil works and entered the asphalt market quickly followed by a move into heavy patching using stabilisation. By 2010, Craig's business employed 70 staff across asphalt, civil construction and stabilisation divisions. Now, after 35 years in business, Stabilcorp remains a successful and highly respected family business with stabilisation forming more than 60% of its activity.</p> <p>Craig has been involved in AustStab since 2013 and has held a position on the AustStab Council since 2019.</p>
	<p>Nigel Preston PhD, FIAT</p> <p>Nigel Preston is the Bitumen Technical Manager for Viva Energy Australia based in Sydney where he coordinates technical marketing activities for bitumen across all Australian states covering aspects of work as diverse as customer support, quality control, feedstock management, and product promotion activities.</p> <p>In addition to being an AustStab Council member, Nigel works closely with the Australia flexible Pavement Association (AfPA) on a number of industry issues, sitting on their National Technology Leadership Committee (NTLC) and chairing their NTLC Binders Group.</p> <p>Nigel holds a PhD in Civil Engineering from Nottingham University and is a Fellow of the UK Institute of Asphalt Technology (IAT).</p>
	<p>David Scicluna</p> <p>David is the Managing Director of Accurate Asphalt & Road Repairs Pty Ltd.</p> <p>David is a self-motivated, driven and determined individual who grew up in a family business and has now developed a history with his own businesses spanning 30 years. David is currently the owner and director of a thriving asphalt and stabilisation business established in 2001 operating from the Hunter area of NSW - Accurate Asphalt & Road Repairs.</p> <p>David has been a member of the AustStab Council since August 2014.</p>
	<p>Warren Smith</p> <p>Warren is a qualified Civil Engineer and Geologist with over 45 years' experience in pavement design and construction and for the last 40 years has worked specifically in the stabilisation and rehabilitation industry in both insitu and pugmill work. This work has involved the development of different methods and procedures of stabilised pavement design and construction in many varied situations throughout Australia and abroad. He has also made a significant input to the ongoing introduction of new technologies in both stabilisation equipment and additive fields.</p> <p>Warren is one of Australia's most experienced engineers in the fields of stabilisation and road rehabilitation and as such is frequently involved in seminars and workshops with state and local government authorities, consultants and other interested groups throughout Australia and internationally, including Europe, Asia and the Pacific Rim region. Warren has been at the forefront of communicating the environmental benefits of using stabilisation techniques, especially for recycling works.</p>

AustStab Organisation

The AustStab organisational structure for 2021/2022 is shown below.



AustStab Working Groups and Organisational Restructure

AustStab has further developed its new national working group structure over the course of 2021/2022 – the new structure operates with the following imperatives:

- All working group activities are connected through a line of management to the AustStab Council and are undertaken in line with the agreed AustStab strategy and objectives
- Management of and reporting on the progress of key AustStab strategic objectives is the responsibility of selected AustStab Council members who act as Portfolio Leads on behalf of the AustStab Council
- National working groups operate under agreed Terms of Reference that clearly align their purpose and defines their priorities to the agreed AustStab strategic objectives, and
- National working groups are formed to cover the key portfolios of Finance, Standards, Technical, Marketing and Promotions, and Training and Education.

The AustStab Executive Committee includes the Portfolio Leads alongside the President and Vice President and acts as the principle operating management committee of AustStab on behalf of the AustStab Council.

The state working groups were expanded in 2020/2021 to include a new South Australian state WG and a combined Victoria/Tasmania state WG. The purpose of state working groups is to address local state issues, including local specifications, regulations, operational safety, and to liaise with their local state road authority and other local industry groups.

The state and national working groups have been active through 2021/2022 undertaking a variety of tasks either delivering on AustStab strategic objectives at a national level or addressing specific local issues at a state level, including regular liaison with the local state road authorities. Special thanks are due to all the AustStab working group members for their contribution and especially to the working group convenors and Portfolio Leads.

Register of Office Bearers

President	Daniel Orriss	Stabilised Pavements of Australia
Vice President	Simon Abrahams	Downer
Company Secretary	Stuart Dack	AustStab
Finance Committee Chairman	Daniel Orriss	Stabilised Pavements of Australia
Standards Committee Chairman	Warren Smith	Stabilised Pavements of Australia
Portfolio Lead – Technical	Allen Browne	Hiway Stabilizers
Technical WG Convenor	Scott Young	Stabilised Pavements of Australia
Portfolio Lead – Marketing & Promotions	Simon Abrahams	Downer
Marketing & Promotions WG Convenor	Stuart Dack	AustStab
Portfolio Lead – Training & Education	TBA	
Training & Education WG Convenor	Stuart Dack	AustStab
New South Wales State WG Convenor	Mark Jekki	Downer
Queensland State WG Convenor	Daniel Orriss	Stabilised Pavements of Australia
South Australia State WG Convenor	Simon Abrahams	Downer
Victoria/Tasmania State WG Convenor	Heath Curnow	Stabil-Lime Group
Western Australia State WG Convenor	Shane Ward	Downer

Activities and Issues Report

AustStab/ARRB Accreditation

An important strategic objective of AustStab is to ensure that pavement recycling and stabilisation works are carried out to best practice and deliver high-quality outcomes. The AustStab/ARRB Accreditation Scheme provides this assurance through an independent assessment of quality to ensure that accredited contractors safely provide a consistently higher quality product. All accredited contractors are assessed for their understanding of the stabilisation process, theory and practice and, to be eligible to be certified under the scheme, must actively carry out pavement stabilisation works or supply plant mixed stabilised materials.

AustStab remains committed to the delivery of high-quality pavement recycling and stabilisation works and as such has continued to audit contractors to ensure full compliance to the requirements of the AustStab/ARRB Accreditation Scheme. The conduct of audits throughout the COVID-19 pandemic has in many cases required online desk-top auditing and/or rescheduling of audits. Despite these constraints, accreditation audits were conducted during 2021/2022 on AustStab contracting members THE Mining and RoadTek with successful outcomes in both cases.

A deep review of the AustStab/ARRB Accreditation Scheme was initiated during 2020/2021 and has continued through 2021/2022 with the primary objective of ensuring its continued relevance to the key stakeholders of AustStab, particularly those state road authorities that mandate the use of Certified contractors. The review aims to deliver an accreditation audit process that is better targeted at and adequately validates the essential quality requirements of stabilisation works, including ensuring an adequate understanding and compliance to specifications and construction quality standards. An expected outcome of the review is an improved definition of auditor competency requirements and to this end discussions are ongoing with ARRB who provide the lead auditor. A memorandum of understanding between ARRB and AustStab will also be developed to ensure the roles and responsibilities of each organisation are appropriately defined and agreed.



Training and Education

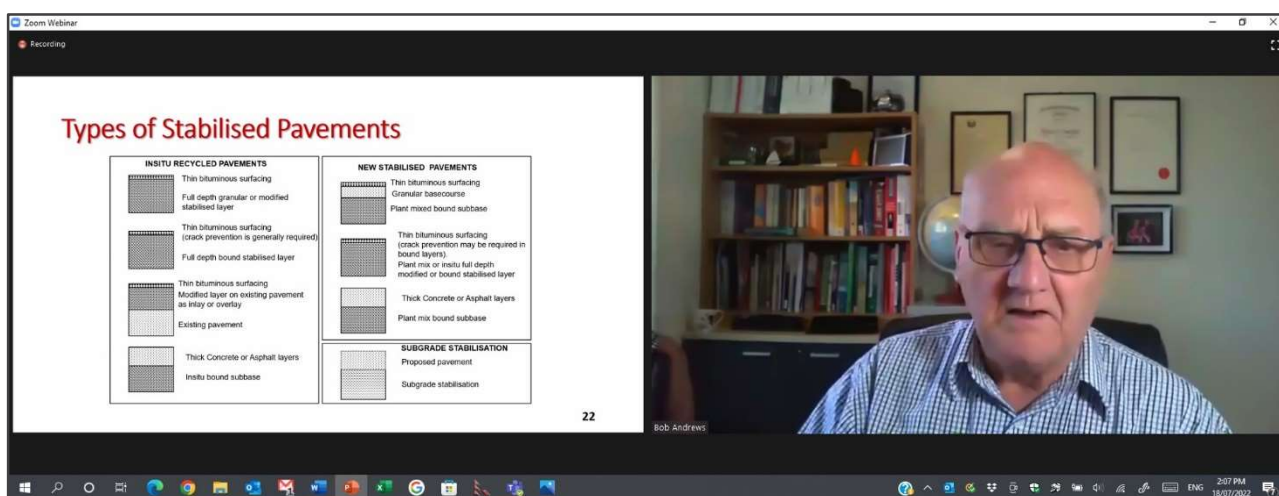
A key component of the annual AustStab education and training program is the Stabilisation Fundamentals course run across Australia every year in conjunction with the Centre for Pavement Engineering Education (CPEE). The 2021/2022 program continued predominantly online due to the COVID-19 pandemic with the conduct of the following online and in-person courses:

Online courses

- July 2021 (25 attendees)
- September 2021 (24)
- November 2021 (26)
- February 2022 (11)
- March 2022 (9)
- May 2022 (12)
- June 2022 (13)

In-person course

- May 2022 (21)



The online courses are conducted in segments over two days and have remained popular with attendees, thanks mainly to the presentation skills of Bob Andrews and Scott Young, along with expert facilitation by Kym Neaylon at CPEE.

After many years of dedicated service, Bob Andrews advised of his desire to retire from his role as presenter and AustStab wishes to acknowledge and thank Bob for

his outstanding work over many years. Colin Leek has taken on the role of lead course presenter and brings considerable experience in pavement engineering and stabilisation practice.

Scott Young and his employer Stabilised Pavements of Australia must again be thanked for contributing Scott's significant time and effort towards the conduct of the online courses.

Despite the ongoing restrictions, one in-person course was conducted in Gympie in December 2021 and was ably presented by AustStab member, Geoff Webb.

Delivery of the CPEE Stabilisation Fundamentals course in 2021/2022 remained mostly online due to restrictions caused by the pandemic.

STABILISATION FUNDAMENTALS

Presented Online by CPEE



Centre for Pavement Engineering Education

This practical course by live webinar is presented in two half day packages of two sessions each, with an optional workshop session. It will briefly review the types of stabilisation before more detailed presentations on types of binders, material characteristics, design and mix detailing. A feature of this course is its significant practical and project-based content which aims to provide advice on road stabilisation solutions.

The Austroads Guides to Pavement Technology – Part 4D, *Stabilised Materials*, and Part 4L, *Stabilising Binders*, and the AustStab *Pavement Recycling and Stabilisation Guide* are used as the key references.



A review of the current MoU with CPEE has been initiated with CPEE CEO Madeleine McManus. Several initiatives have been agreed to be considered for implementation, including:

- Introduction of a six-monthly course content review process
- Development of a lead presenter succession plan
- Introduction of Competency Assessment (Certificate of Attainment rather than Certificate of Attendance) to better support the AustStab/ARRB Accreditation Scheme, and
- Commencement of the development of two advanced courses on Design and Construction.

A guest lecture was once again delivered on behalf of AustStab by Chris Cleaton (SPA) to engineering students at the University of Wollongong and we thank him for volunteering his time. The extension of our teaching program with university undergraduate courses across Australia will continue to be a focus for 2022/2023.





The 2022 *Australian Pavement Recycling and Stabilisation Conference* will take place at the Novotel Brighton Beach in Sydney on Wednesday 10th August 2022. This will be the fourth official date after several unsuccessful attempts across 2020 and 2021 due to continuing issues relating to the COVID-19 pandemic. Despite the complexities of navigating through the pandemic, conference planning is progressing well with a strong field of presenters covering a range of interesting stabilisation-related topics. The conference will be preceded by the traditional AustStab Golf Championship and the AustStab Annual General Meeting will take place following the conference on Thursday 11th August 2022.

Conference speakers and presentations

- Keynote: Ainslie Simpson, Chief Executive Officer, Infrastructure Sustainability Council
- Keynote: John Soars, Director Maintenance & Delivery, Network & Assets, Regional & Outer Metropolitan, Transport for New South Wales
- Keynote: *Implementation of foamed bitumen in Queensland – a 25 year journey* – Damian Volker, Queensland Department of Transport and Main Roads
- *Sustainability assessment for innovative pavement materials, designs and processes* – Brook Hall, ARRB Group
- *Circular Economy: Construction of an (almost) completely recycled road in Central Coast Council NSW* – Stuart Baverstock, Transport for NSW (formerly Central Coast Council NSW)
- *Managing respirable crystalline silica risks for stabilisation works* – Rohan Davies, Queensland Department of Transport and Main Roads
- *Case study: Northbourne Avenue, Canberra* – Alvaro Amorim, Transport Canberra City Services
- *ARRB research outcomes and current programs* – Dr James Grenfell, ARRB Group
- *A practical approach to rehabilitate thin existing pavements using base-grade stabilisation* – Scott Young, Stabilised Pavements of Australia
- *Design of foamed bitumen stabilised pavements for local government engineers* – George Vorobieff, Head to Head International
- *Rehabilitation of 300 projects in the Campbelltown NSW LGA by pavement recycling and stabilisation to optimize service levels* – Mahbub Hossain, Campbelltown City Council
- *Industry partnerships in national recognised stabilisation operator training* – Marcia Kelly, THE Mining & IS Australia
- *Foamed bitumen stabilisation and the Airport Pavement Research Program* – Dr Greg White, The University of the Sunshine Coast
- *Canberra Airport – Taxiway Bravo extension* – Tim Jackson, Downer EDI
- *Effects of ‘hot storage and duration’ on Class 170 binder properties and foamed bitumen stabilisation performance* – Damian Volker, Queensland Transport and Main Roads
- *Emulsion treated road base – Bracalba Quarry case study* – Kanjana Yindee, Sami Bitumen Technologies

AustStab Awards of Excellence

The AustStab Awards of Excellence celebrate leading practice and innovation in pavement recycling and stabilisation as well as the emergence of new talent in the industry. The 2021 AustStab Awards of Excellence winners and highly commended entries were announced at an online event in October 2021.



Category 1: Work Health and Safety

- **Winner:** *Control of Respirable Dusts*, submitted by Greg Kowalczuk, Stabilised Pavements of Australia
- **Highly Commended:** *Hot Bitumen Shield*, submitted by Mark Filsell, Hiway Stabilizers
- **Highly Commended:** *Hydraulic Push Bar Caterpillar RM500*, submitted by David Lansbury, THE Mining

Category 2: Industry Excellence in Consulting, Research or Education

- **Winner:** *National Design Procedures for Lightly Bound Cemented Materials in Flexible Pavements*, submitted by Dr James Grenfell, ARRB Group
- **Highly Commended:** *Characterisation of the Fatigue Performance of Foamed Bitumen Stabilised Materials*, submitted by Dr Negin Zhalehjo, ARRB Group
- **Special Recognition:** *Implementation of Foamed Bitumen in Queensland – A 25 Year Journey*, submitted by Damian Volker and Jothi (Rama) Ramanujam, Queensland Department of Transport and Main Roads



Category Three: Excellence in Sustainability or Innovation

- **Winner:** *Murrawal Road Upgrade Project – Striving for 100% Recycling*, submitted by Stuart Baverstock, Central Coast Council NSW (now with Transport for NSW)
- **Highly Commended:** *Northbourne Avenue Canberra*, submitted by Alvaro Amorim, Transport Canberra and City Services



Category Four: Excellence in Pavement Recycling and Stabilisation in Local Government

- **Winner:** *Long Term Performance of Bound Insitu Stabilised Pavements*, submitted by Steve Button, Richmond Valley Council
- **Highly Commended:** *Pavement Recycling in Campbelltown City Council*, submitted by Mahbub Hossain, Campbelltown City Council

Category Five: Young Stabiliser of the Year

- **Winner:** *Hayden Foster, Stabilised Pavements of Australia*
- **Highly Commended:** *Stefanie Lesser, Downer*

The 2022 AustStab Gala Dinner and Awards Night on 10th August 2022 will provide another opportunity to celebrate excellence in pavement recycling and stabilisation with the following finalists announced.

Category 1 – Work Health and Safety – Finalists

- *Key Safety Items – Education and Awareness*, submitted by Greg, Kowalczyk, Stabilised Pavements of Australia
- *Sharpening your Senses – Managing Variability in the Work Environment*, submitted by Mark Dexter, Hiway Stabilizers
- *Stabiliser Fall Protection*, submitted by Mark Jekki, Downer EDI Works
- *Ground Level Fuelling System*, submitted by Matt Billings, Downer EDI Works
- *Reverse Smart Technology – Portable Application*, submitted by Andrew Schutt, Downer EDI Works

Category 2 – Industry Excellence in Consulting, Research or Education – Finalists

- *Development of Geopolymer Concrete using Waste Clay Brick as Binder for Pavement Construction*, submitted by Janitha Migunthanna, Swinburne University of Technology and SPARC Hub
- *Successful Starts - SPA Onboarding and Successful Starts Enhancement*, submitted by Alana Isbister, Stabilised Pavements of Australia

Category 3 – Excellence in Sustainability – Finalists

- *Merimbula Airport Foamed Bitumen Stabilisation – Symal Infrastructure*, submitted by Chris Cleaton, Stabilised Pavements of Australia
- *Healesville Kinglake Road Pavement Rehabilitation*, submitted by Thomas Gauci, Downer EDI Works
- *Pavement Rehabilitations Bass Highway Tasmania*, submitted by Rohullah Wahdati, Downer EDI Works
- *Horrocks Highway LBCM Implementation – Technical Excellence meets Sustainability*, submitted by Troy Carrigan, Hiway Stabilizers

Category 4 – Excellence in Pavement Recycling and Stabilisation in Local Government – Finalists

- *Stabilisation Advocation & Leading Pavement Recycling Innovation in Local Government*, submitted by Mohamed Dewji, Liverpool Council
- *City of Melville Foam Bitumen Stabilisation*, submitted by Nathan Jacobs, WA Stabilising



Industry Activities and Collaborations

AustStab has actively collaborated with key stakeholders across local and state government, educational institutes, and a wide variety of industry groups and organisations, including:

- Australian flexible Pavement Association (AfPA)
- ARRB Group
- Austroads
- Centre for Pavement Engineering Education (CPEE)
- Department for Infrastructure and Transport, South Australia (DIT)
- Department of Transport and Main Roads, Queensland (TMR)
- Department of Transport, Victoria (DoT) and Ecologi
- Institute of Public Works Engineering Australasia (IPWEA)
- Infrastructure Sustainability Council (ISC)
- Main Roads, Western Australia (MRWA)
- NATSPEC
- Roadmarking Industry Association of Australia (RIAA)
- Roads Australia (RA)
- SARA Group
- SPARC Hub
- Standards Australia
- State Growth, Tasmania
- Transport for NSW (TfNSW)
- Traffic Management Association of Australia (TMAA)

Road Association Forum

In 2H2021 AustStab joined with other like-minded roading associations, including AfPA, RIAA, RA, SARA Group and TMAA, with the objective of collectively advocating on issues of mutual importance. Joint industry statements were developed and communicated to legislators on road worker safety, procurement practices and to address issues arising from the recent escalation in energy and other costs impacting ongoing contract works.

Austroads

AustStab is actively involved in a number of Austroads forums, including:

- Pavement Task Force (PTF) – Stakeholder/Industry Member
- Pavement Structures Technical Group (PSTG) – Active Member
- Bituminous Surfacing Technical Group (BSTG) – Corresponding Member
- Asphalt Research Technical Group (ARTG) – Corresponding Member

Involvement in these Austroads groups provides AustStab with the opportunity to engage with Austroads member organisations, including the various Australian road agencies and local government. This involvement includes participation in the proposal and prioritisation of research projects, along with the management and review of projects during their conduct.

Of specific interest to AustStab is the work of the Pavement Structures Technical Group (PSTG) with several projects under their stewardship being particularly relevant to the stabilisation industry. Another initiative of interest to AustStab members is Project ASP6089, which is managed by the Austroads Project Delivery Task Force.

Austrroads member agencies also manage the *National Prequalification System for Civil (Road and Bridge) Construction Contracts*, a scheme that covers a range of activities across road construction and maintenance. AustStab will look to work with Austrroads and its members in 2H2022 to better define the necessary competency requirements of stabilisation contractors within the scheme.

Recently completed projects

Project TT2046 *Improving the cost effectiveness of foamed bitumen stabilised pavements*

Commenced: 1st February 2016

Completed: 31st May 2021

This project aimed to demonstrate how the cost of foamed bitumen stabilised (FBS) pavements can be reduced by maximising the use of reclaimed asphalt pavement (RAP) material. The focus of this research was on flexural modulus, deformation, and fatigue performance of FBS materials incorporating different amounts of RAP. The project was expected to produce guidelines on the performance of FBS materials incorporating RAP material, and laboratory test methods for estimating the performance of specific material combinations for rehabilitation projects. The project involved two phases. Phase one was a deformation assessment of FBS incorporating RAP under both the Accelerated Loading Facility (ALF) and in laboratory wheel tracker testing. Phase 2 was an assessment under ALF of fatigue cracking of FBS materials incorporating previously cement treated bases and RAP.

The final project outcomes are reported in AP-T363-22 *Fatigue Performance of Foamed Bitumen Stabilised Pavements Under Full-scale Accelerated Loading*, published on 9th March 2022. The report proposes a new definition for FBS design modulus and improved in-service fatigue relationships for structural thickness design of FBS layers.

Project APT6157 *Maximising the use of sustainable rehabilitation treatments*

Commenced: 27th April 2018

Completed: 31st December 2021

This project aimed to develop a procedure to measure the laboratory fatigue characteristics of foamed bitumen stabilised (FBS) materials, conduct a laboratory testing program, and provide a calibrated laboratory fatigue relationship that would form the basis of an in-service fatigue relationship for FBS pavement thickness design.

The project was comprised of two main phases:

- Phase 1 involved the selection of 16 FBS mixes of differing material and binder combinations and the undertaking of a laboratory testing program to characterise the indirect tensile resilient modulus and strength of FBS cylindrical specimens as well as the undertaking of Austrroads mix designs on each mix.
- Phase 2 involved an investigation of the fatigue characteristics of FBS materials through the undertaking of laboratory fatigue testing on beam specimens of selected mixes, and the development of a laboratory fatigue relationship for FBS pavements.

Project outcomes are reported in AP-R666-22 *Laboratory Fatigue Characterisation of Foamed Bitumen Stabilised Materials*, published on 2nd February 2022. The report documents the laboratory testing undertaken and the development of fatigue relationships using strain-based and stress-based analyses. The fatigue life predictions using a strain-based relationship were found to

provide a generally acceptable conformity with the laboratory-measured data. A slightly lower prediction quality was found for the stress-based relationship.

Current active projects

Project APT6329 *Method for considering remaining life in the design of pavement rehabilitation treatments*

Commenced: 28th December 2021

Completion due: 13th December 2023

This project aims to provide improved methods for the mechanistic-empirical design of pavement rehabilitation treatments. Module 1 of this project will deliver a method for considering remaining life in the design of pavement rehabilitation treatments and will outline a new process for the assessment of the structural capacity and remaining life of pavement structures that include existing aged and trafficked bound materials.

Project ASP6089 *Austrroads Technical Specifications*

Commenced: 1st May 2018

Completion due: 31st December 2022

This project aims to develop Austrroads Technical Specifications as a comprehensive and nationally harmonised suite of specifications for the construction of roads and bridges. The Austrroads Technical Advisory Group is made up of a senior representative from each Austrroads member organisation and oversees development of the specifications. Austrroads is consulting with industry and all jurisdictions as each specification is developed.

The Austrroads Technical Specifications (ATS) will supplement or replace many of the existing road agency specifications, but will still allow for agency specific requirements.

The project is currently working on pavements and roadworks specifications, including:

- Concrete pavements
- Asphalt
- Flexible pavements

The program for the second half of 2022 will include the development of harmonised specifications covering bound and unbound pavement construction and insitu and plant mix stabilisation, including foamed bitumen stabilisation. AustStab will be involved in a workshop to be held in early 2H22 to develop a view of the preferred flexible pavement specification structure.

Proposed projects to commence in 2022/2023

- **Project APT6245** *Develop design procedures for foamed bitumen stabilised pavements*
- **Project APT6248** *AustPADS update*
- **Project EAS6380** *Development of tool for measuring carbon and recycled content of infrastructure*
- **Project EAS6362** *WMAPT update of temperature projections*

Institute of Public Works Engineering Australasia (IPWEA)

AustStab has maintained close liaison with IPWEA across their state structure with a focus on establishing contact with the new IPWEA management in NSW. In late 2021, AustStab NSW

Working Group Chair Mark Jekki and CEO Stuart Dack met with new IPWEA CEO, Francine Binns, Acting Roads and Transport Directorate Manager, George Vorobieff and Research and Policy Officer, Ai Jen Lim. One topic of discussions was the need to evaluate the ongoing performance of stabilisation trials conducted several years ago in collaboration with IPWEA NSW Roads and Transport Directorate.

AustStab and its members regularly contribute to conferences and events conducted by the Institute of Public Works Engineering Australasia (IPWEA) across several states and discussions have taken place with IPWEA executive staff on a number of topics of mutual interest.

AustStab will present at upcoming IPWEA conferences and events in 2H2022, including:

- IPWEA Queensland State Conference in October 2022: presentation accepted on ‘Tailoring stabilisation specifications for Local Government’, and
- IPWEAQ Northern Territory Branch Conference in September 2022: presentation on ‘Pavement recycling – maximising the opportunities to provide resilient and sustainable infrastructure’ (this conference has now been postponed until 2023).

An initiative currently being considered through IPWEA South Australia for development in 2H2022 is to present on stabilisation topics at regular IPWEA Tech Talks.

NATSPEC

NATSPEC is owned by the design, build, construct and property industry through professional associations and government property groups and has the objective of improving the construction quality and productivity of the built environment through the provision of national specifications.

NATSPEC and AustStab have entered a Partnership Agreement during 2022 that defines an arrangement whereby AustStab will develop and annually maintain the technical content of stabilisation specifications published by NATSPEC in their AUS-SPEC specification suite. This arrangement will see significant restructuring of the current AUS-SPEC Stabilisation Specification 1113 with the likelihood of it being replaced by a series of more specific documents relating to the various stabilisation processes relevant to local government asset owners.

SPARC Hub

Monash University has acquired Australian Research Council (ARC) funding to establish and operate the ARC Industry Transformation Research Hub (ITRH) for Smart Next Generation Pavements, dubbed as Smart Pavements Australia Research Collaboration (SPARC) Hub. SPARC aims to advance and transform the Australian pavement manufacturing industry by addressing short to longer term transport challenges through high-quality, collaborative research in innovative materials, smart technologies and advanced design, construction and maintenance methods. The overall research program is divided into projects primarily based on industry partnerships. AustStab is a Partner Investigator of the SPARC Hub and an in-kind contributor. Information on the current projects being undertaken within the SPARC Hub program is available at www.sparchub.org.au/projects.

A project of special interest to stabilisation is Project 1H18.02.1 *Advancements and innovations in bound pavement bases: large scale and pre-implementation testing of foamed bitumen*. This project is a collaboration between Monash University and the ARRB Group with work being undertaken by Mr Sameera Pitawala at Monash. See further information at <https://sparchub.org.au/projects/project-21-2019>.

Another project of interest is Project 1H18.04.02 *Long lasting and environmentally sustainable pavements through geopolymers concrete and composites*. This project is a collaboration between Swinburne University of Technology, Monash University and Austroads with work being undertaken by Ms Janitha Madhavi at Swinburne. The project seeks to explore the synthesis of geopolymer binders at ambient conditions as replacements of Portland cement with the study investigating the feasibility of using waste clay bricks (WCB) as the aluminosilicate source material to synthesise geopolymer binders. See further information at <https://sparchub.org.au/projects/project-42-2019>.

Standards Australia

AustStab is a Nominating Organisation of Standards Australia and is currently represented on Committees CH-025 Bitumen and Related Products (For Roadmaking), BD-098 Pavements and CE-009 Testing of Soils for Engineering Purposes. Standards projects underway or completed by these committees during 2021/2022 include:

Published in 2021/2022

- **AS 2341.9:2021** Methods of testing bitumen and related roadmaking products – Determination of water content (Dean and Stark), and
- **AS 1289.3.2.1-2009 REC:2022** Methods of testing soils for engineering purposes, Part 3.2.1: Soil classification tests – Determination of the plastic limit of a soil – Standard method.

Out for public comment

- **AS 2341.4:2022** Methods of testing bitumen and related roadmaking products, Method 4: Determination of dynamic viscosity by rotational viscometer
- **AS 2341.27:2022** Methods of testing bitumen and related roadmaking products, Method 27: Determination of sedimentation
- **AS 1289.7.1.1:2022** Methods of testing soils for engineering purposes, Method 7.1.1: Soil reactivity tests – Determination of soil reactivity – Shrink-swell index
- **AS 4133.4.2.1:2022** Methods of testing rocks for engineering purposes, Method 4.2.1: Rock strength tests – Determination of uniaxial compressive strength of 50MPa and greater, and
- **AS 4133.4.3.2:2022** Methods of testing rocks for engineering purposes, Method 4.3.2: Rock strength tests – Determination of the deformability of rock materials and unconfined compressive strength in uniaxial compression – Rock strength less than 50MPa.

Being drafted

- **AS 2341.15** Methods of testing bitumen and related roadmaking products, Method 15: Distillation of cutback bitumen.

AustStab will continue to explore opportunities to participate more widely in Standards Australia in 2022/2023, potentially across the following committees:

- BD-010 Cement
- BD-031 Supplementary Cementitious Materials (Slag, Fly Ash, Silica Fume)
- CE-012 Aggregates and Rock for Engineering Purposes, and
- CE-015 Geotechnical Site Investigations.

State Road Authorities

AustStab actively engages with all state road agencies on a regular basis, either directly or in collaboration with each relevant state working group.

Transport and Main Roads, Queensland (TMR)

- AustStab has maintained a regular dialogue with the Engineering & Technology team within TMR on a number of important issues, in particular:
 - a TMR proposal to develop and implement a training and registration system for those involved in stabilisation works
 - Monitoring and mitigation of exposures to respirable dust with a particular focus on Respirable Crystalline Silica exposures, and
 - The need to ensure ongoing adherence to two-pass mixing where required.
- AustStab is looking to develop a more formal and regular dialogue with senior TMR management under an Industry Liaison Group between TMR and AustStab.
- AustStab contributed to the review of proposed amendments to the TMR Materials Testing Manual, the MRTS 05, MRTS 07A/B/C, MRTS 08, MRTS 09 and MRTS 10 suite of specifications, and the new MRTS07D *In situ Stabilised Subbases using Triple Blend* specification.
- AustStab participated in TMR workshops to assist in the development of research programs to be undertaken by their National Asset Centre of Excellence (NACoE) initiative, which is conducted in collaboration with the ARRB Group. In addition to this involvement, AustStab has suggested consideration be given to establishing a direct dialogue with NACoE on some of the research options raised to allow better communication of the detail and to refine priorities.
- AustStab joined with TMR staff and others to celebrate the retirement of Peter Evans after a long and distinguished career – Peter is an Honorary Member of AustStab and has been a great advocate of pavement stabilisation over many years.

Department for Infrastructure and Transport, South Australia (DIT)

- Liaison with DIT has developed well over the 2021/2022 period following the formation of an AustStab South Australia Working Group under the convenorship of Simon Abrahams. This has helped establish excellent working relationships with key DIT technical staff, particularly through a period where recent retirements within DIT have resulted in changes to the way DIT is managing their activities.
- Several DIT specifications and associated documents are undergoing review, including three stabilisation specifications (in situ, ex situ and foamed bitumen), along with the *Sustainability in Design* and *Sustainability in Construction* documents.
- A review of the DIT pavement design supplement will also be undertaken.
- The establishment of a higher-level liaison arrangement with senior DIT management is currently being developed to cover strategic issues of importance to both parties and their key stakeholders.

Transport for NSW (TfNSW)

- TfNSW has been undergoing considerable restructuring over 2021/2022 with many new faces joining and several key contacts of AustStab moving to new roles. Contact has been made with several of the new incumbents – establishment of good working relationships with key staff within the new organisation has been and will continue to be a top priority for AustStab.
- Another priority activity for AustStab continues to be the review of TfNSW specification and quality issues, which have been regularly addressed through James Allen, Pavement Manager (Flexible Pavements) on an ongoing basis, including:
 - QA Specification R73 Construction of Plant Mixed Heavily Bound Pavement Course
 - QA Specification R74 Construction of Plant Mixed Foamed Bitumen Pavement Course

- QA Specification R75 Insitu Pavement Stabilisation Using Slow Setting Binders
- QA Specification M250 Heavy Patching (Flexible Pavement)
- QA Specification M290 Pavement Rebuilding (Bound and Unbound Material)
- QA Specification 3211 Cements, Binders and Fillers
- AustStab contributed to a TfNSW Sustainable Procurement in Infrastructure initiative during 1H2022. The primary objective of this initiative is to help shape sustainable procurement processes across TfNSW infrastructure projects. Further workshops will take place over the coming months.

Department of Transport, Victoria (DoT) and Ecologiq

- Significant progress has been made over 2021/2022 through Ecologiq, which is a Victorian Government initiative that aims to optimise the use of recycled and reused materials in support of the Recycled First Policy of the Victorian Government.
- Ecologiq is part of the Major Transport Infrastructure Authority, which works closely with the Victorian Department of Transport in planning, delivery and construction of major transport projects. Ecologiq aims to integrate recycled and reused content into Victoria's \$80 billion Big Build through the incorporation of waste products wherever possible.
- AustStab approached Ecologiq to address the lack of inclusion of pavement recycling and stabilisation in their guides and the barriers to uptake presented by DoT specifications. This has resulted in the agreement to amend their guides to better represent the recycling benefits of stabilisation processes. Discussion with DoT have also been facilitated by Ecologiq with the aim of clarifying the current DoT design supplement to ensure better utilisation of stabilisation processes in DoT works. DoT also agreed to withdraw two of their outdated Technotes relating to stabilisation. AustStab was also involved in an Ecologiq Innovation Showcase event ('Shark Tank') to promote the recycling benefits of stabilisation.

Main Roads, Western Australia (MRWA)

- MRWA published their new stand-alone Specification 515 *In situ stabilisation of pavement materials* in late 2021.

University of the Sunshine Coast

Dr Greg White from the University of the Sunshine Coast finalised the development of a standardised airport foamed bitumen stabilisation specification in collaboration with representatives of AustStab. The specification has now been successfully utilised in an airport project for Bega Shire Council. AustStab will work with Dr White in 2H2022 to review and further develop the specification for publication on the AustStab website.



Finance

Financial Statements prepared by Willis Partners



Financial Statements

Auststab Ltd
ABN 20 070 311 830
For the year ended 30 June 2022

Prepared by Willis Partners Pty Ltd



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Income and Expenditure Statement



Income and Expenditure Statement

Auststab Ltd

For the year ended 30 June 2022

	2022	2021
Income		
Income		
Accreditation	14,025	21,575
AGM Income	15,060	43,050
Member Subscriptions	208,833	208,445
Other Revenue	1	-
Sale of Publication	2,818	213
Training & Seminars	20,758	13,918
Total Income	261,495	287,202
Total Income	261,495	287,202
Cost of Sales - Guides		
Opening Stock	7,238	7,549
Closing Stock	(6,814)	(7,238)
Total Cost of Sales - Guides	424	312
Gross Surplus	261,072	286,890
Other Income		
Interest Income	67	390
Cash Flow Boost Subsidy	-	21,645
JobKeeper Subsidy	-	33,000
Victorian Government Grant Subsidy	-	20,000
Total Other Income	67	75,035
Expenditure		
Accountancy Fees	3,150	6,000
Accreditation Costs	13,130	18,530
Advertising	16	12
AGM Expenses	2,135	9,535
Audit Expenses	2,200	4,000
Bank Charges	821	1,377
Doubtful Debts	330	(458)
Entertainment Expenses	1,158	-
Filing Fees	333	465
Holiday Pay	2,326	8,024
Insurance	2,449	2,470
Office Expenses	3,200	2,948
Postage	768	572
Rent	2,066	1,960
Sundry Expenses	3,139	808
Superannuation Contributions	21,478	19,617
Telephone	1,116	1,128

The accompanying notes form part of these financial statements. These statements should be read in conjunction with the attached compilation report.

	2022	2021
Travel Expenses	661	1,831
Wages	214,781	206,500
WorkCover expense	671	1,006
Total Expenditure	275,930	286,326
Current Year Surplus/ (Deficit) Before Income Tax Adjustments	(14,791)	75,599
Current Year Surplus/(Deficit) Before Income Tax	(14,791)	75,599
Net Current Year Surplus After Income Tax	(14,791)	75,599

The accompanying notes form part of these financial statements. These statements should be read in conjunction with the attached compilation report.

Balance Sheet



Balance Sheet

Auststab Ltd
As at 30 June 2022

	NOTES	30 JUN 2022	30 JUN 2021
Assets			
Current Assets			
Cash and Cash Equivalents		296,334	304,265
Receivables		25,901	27,508
Inventory		6,814	7,238
Total Current Assets		329,048	339,010
Total Assets		329,048	339,010
Liabilities			
Current Liabilities			
Payables			
GST Payable/(Refundable)		1,137	1,957
PAYG Withholding Payable		5,057	4,554
Provision for Holiday Pay		26,257	23,932
Sundry Creditors		8,085	5,500
Superannuation Payable		1,869	1,635
Total Payables		42,406	37,577
Total Current Liabilities		42,406	37,577
Total Liabilities		42,406	37,577
Net Assets		286,642	301,433
Equity			
Retained Earnings		286,642	301,433
Total Equity		286,642	301,433

The accompanying notes form part of these financial statements. These statements should be read in conjunction with the attached compilation report.

Movements in Equity



Movements in Equity

Auststab Ltd

For the year ended 30 June 2022

	2022	2021
Equity		
Opening Balance	301,433	225,834
Increases		
Profit for the Period	(14,791)	75,599
Total Increases	(14,791)	75,599
Total Equity	286,642	301,433



Notes to the Financial Statements

Auststab Ltd

For the year ended 30 June 2022

1. Summary of Significant Accounting Policies

The financial statements cover Auststab Limited as an individual entity. Auststab Limited is a not for profit company limited by guarantee incorporated in Australia under the Corporations Act 2001 ('the Act').

The financial statements have been prepared on an accruals basis and are based on historic costs and do not take into account changing money values or, except where stated specifically, current valuations of non-current assets.

The following significant accounting policies, which are consistent with the previous period unless stated otherwise, have been adopted in the preparation of these financial statements.

Impairment of Assets

At the end of each reporting period, the committee reviews the carrying amounts of its tangible and intangible assets to determine whether there is any indication that those assets have been impaired. If such an indication exists, an impairment test is carried out on the asset by comparing the recoverable amount of the asset, being the higher of the asset's fair value less costs to sell and value in use, to the asset's carrying amount. Any excess of the asset's carrying amount over its recoverable amount is recognised in the income and expenditure statement.

Employee Provisions

Provision is made for the association's liability for employee benefits arising from services rendered by employees to the end of the reporting period. Employee provisions have been measured at the amounts expected to be paid when the liability is settled.

Provisions

Provisions are recognised when the association has a legal or constructive obligation, as a result of past events, for which it is probable that an outflow of economic benefits will result and that outflow can be reliably measured. Provisions are measured at the best estimate of the amounts required to settle the obligation at the end of the reporting period.

Cash on Hand

Cash on hand includes cash on hand, deposits held at call with banks, and other short-term highly liquid investments with original maturities of three months or less.

Accounts Receivable and Other Debtors

Accounts receivable and other debtors include amounts due from members as well as amounts receivable from donors. Receivables expected to be collected within 12 months of the end of the reporting period are classified as current assets. All other receivables are classified as non-current assets.

Revenue and Other Income

These notes should be read in conjunction with the attached compilation report.

Revenue is measured at the fair value of the consideration received or receivable after taking into account any trade discounts and volume rebates allowed. For this purpose, deferred consideration is not discounted to present values when recognising revenue.

Interest revenue is recognised using the effective interest method, which for floating rate financial assets is the rate inherent in the instrument.

Grant and donation income is recognised when the entity obtains control over the funds, which is generally at the time of receipt.

If conditions are attached to the grant that must be satisfied before the association is eligible to receive the contribution, recognition of the grant as revenue will be deferred until those conditions are satisfied.

All revenue is stated net of the amount of goods and services tax.

Goods and Services Tax (GST)

Revenues, expenses and assets are recognised net of the amount of GST, except where the amount of GST incurred is not recoverable from the Australian Taxation Office (ATO). Receivables and payables are stated inclusive of the amount of GST receivable or payable. The net amount of GST recoverable from, or payable to, the ATO is included with other receivables or payables in the assets and liabilities statement.

Financial Assets

Investments in financial assets are initially recognised at cost, which includes transaction costs, and are subsequently measured at fair value, which is equivalent to their market bid price at the end of the reporting period. Movements in fair value are recognised through an equity reserve.

Accounts Payable and Other Payables

Accounts payable and other payables represent the liability outstanding at the end of the reporting period for goods and services received by the association during the reporting period that remain unpaid. The balance is recognised as a current liability with the amounts normally paid within 30 days of recognition of the liability.

	2022	2021
2. Cash on Hand		
Cash at Bank - Cheque Account	150,044	118,450
Cash at Bank - Savings Account	110,430	98,011
Cash at Bank - Term Deposit	27,860	87,804
Total Cash on Hand	296,334	304,265
	2022	2021
3. Trade and Other Receivables		
Trade Receivables		
Trade Debtors	16,624	17,880

These notes should be read in conjunction with the attached compilation report.

	2022	2021
Less: Provision for Doubtful Debts	(330)	-
Total Trade Receivables	16,294	17,880
Other Receivables		
Interest Receivable	7	28
Total Other Receivables	7	28
Prepayments		
Prepayments	9,600	9,600
Total Prepayments	9,600	9,600
Total Trade and Other Receivables	25,901	27,508
	2022	2021
4. Employee Entitlements		
Provision for Holiday Pay	26,257	23,932
Superannuation Payable	1,069	1,635
Total Employee Entitlements	28,127	25,566

These notes should be read in conjunction with the attached compilation report.



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Acknowledge Auditing Pty Ltd
ABN 45 167 737 662

PO Box 43
Surrey Hills Victoria 3127

Independent Auditor's Report

Auststab Ltd

For the year ended 30 June 2022

Report on the Financial Report

We have audited the accompanying financial report being a special purpose financial report, of Auststab Limited, which comprises the assets and liabilities statement as at 30 June 2022, the income and expenditure statement and statement of changes in equity for the year then ended, notes comprising a summary of significant accounting policies and other explanatory information, and the statement by members of the committee.

Committee's Responsibility for the Financial Report

The committee of Auststab Limited is responsible for the preparation of the financial report that gives a true and fair view in accordance with Australian Accounting Standards and the Corporations Act 2001 and for such internal control as the committee determines is necessary to enable the preparation of the financial report that gives a true and fair view and is free from material misstatement, whether due to fraud or error.

In Note 1, the committee also state, in accordance with Accounting Standard AASB 101 Presentation of Financial Statements, that the financial statements comply with International Financial Reporting Standards.

Auditor's Responsibility

Our responsibility is to express an opinion on the financial report based on our audit. We conducted our audit in accordance with Australian Auditing Standards. Those standards require that we comply with relevant ethical requirements relating to audit engagements and plan and perform the audit to obtain reasonable assurance about whether the financial report is free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial report. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial report, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the association's preparation of the financial report that gives a true and fair view, in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the association's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by the committee, as well as evaluating the overall presentation of the financial report.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

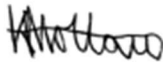
Independence

In conducting our audit, we have complied with the independence requirements of Australian professional ethical pronouncements.

Opinion

In our opinion, the financial report presents fairly, in all material respects, the financial position of

Auststab Limited as at 30 June 2022, and its financial performance for the year then ended in accordance with Corporations Act 2001.



Mr. Kevin Mottau CA

Acknowledge Auditing Pty Ltd

Auditor's Independence Declaration



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Auditors Independence Declaration

Auststab Ltd

For the year ended 30 June 2022

To Members of Auststab Limited

I declare that, to the best of my knowledge and belief, during the year ended 30 June 2022, there have been:

- a) no contraventions of the auditor independence requirements in relation to the audit; and
- b) no contraventions of any applicable code of professional conduct in relation to the audit.

A handwritten signature in black ink, appearing to read "Kevin Mottau".

Mr. Kevin Mottau CA
Acknowledge Auditing Pty Ltd
Level 1, 613 Canterbury Road
SURREY HILLS VIC 3127
Dated 28 July 2022

AustStab Limited

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