Sydney National Conference

## A spotlight on precast

Gathering leaders from the precast industry, from manufacturers and suppliers to allied professionals, the National Precast Concrete Association Australia's Sydney National Conference has emerged as a pivotal event for the sector.

On 1 November 2023, members of the National Precast Concrete Association
Australia (National Precast) travelled from tar and wide to attend its National Conference in Coogee. New South Wales. Hosted by National Precast CEO Sarah Bachmann and president Jeff Stratford, the three-day conterence commenced with a welcoming reception alongside an exhibition featuring prominent industry players including Leviat, Reid construction Systems, PROGRESS GROUP, Barrason's Engineers, Actech, Peikko, Hagane Systems, APTUS and Bennett Equipment. The exhibition showcased a diverse array of innovative products and solutions for the precast structural precast connections. As the exhibition continued on day two industry leaders took the stage to share their insights during the official conference, sponsored by Leviat
Leviat Australia national technical manager Brett King and engineering team leaderPrecast Ali Asgari discussed durable and
resilient solutions designed to withstand the challenges posed by precast connections. while also reducing the overall cost and complexity of precast construction. Fair Work Commission deputy president Peter Hampton shared an update on the implementation of multi-employe
bargaining options bargaining options
WorkSafe Victoria advisor James Webstior construction 'Pre-cast Panel Project', an initiative involving a comprehensive review of six primary hazards within precast businesses in Meibourne. respirable crystalime silica (RCS), cranes and uifting equipment, panel
storage, hazardous manual handling, vehicles and traffic management, and panel design and quality assurance.
Daniel Nassar, managing director at Alpha Daniel Nassar, mana ging director ait
Precast, revealed his strict contracting approach, outlining the strategies he employs to maintain his position, and illustrating had on his business
Attendees also heard from Fleur Heazlewood, director at The Blueberry Institute, discussing psychological safety, Sarah Hammond,
"Sarah's passion dedication, sleepless nights and laughter have helped all of us grow and be successful in our respective businesses.
partner at Moray $\&$ Agnew, addressing th ermination of project contracts, and Mat Press, executive director, Compliance \&
Dispute Resolution at SafeWork and Fair Trading NSW, sharing perspectives on modernisation opportunities and roadblocks. Concluding the conference, Stratford, in his position as general manager QLD at Euro Precast, shed light on the company's adept handling of the challenges involved elements for the high-profile Mondrian Gold Coast project. He explored the implications on reinforcement congestion, mould manufacture, drafting considerations, utilisation of form liners, the company's procedures, offsite payment processes, audits, nspections and approvals delivery and nstallation Additionally, Stratford highlighted the support from National Precast partnerships that played a crucial role in navigating and overcoming challenges as they emerged To cap off day two, attendees enjoyed a networking dinner, sponsored by PSA and R interactive factory tour of the Metro West Tunnel on day three During the dirner, National Precast honoured several members for achieving membership milestones of $5,10,15,20,25$ and 30 years. Notably, Rod Mackay-Sim was bestowed with to the precast industry over the past 40 years. -Rod's commitment to the precast industry in particular his passion for improving safety has been nothing short of outstanding." says Bacruann We are proud to know rod and incredibly appreciative to have him involved Additionally, Sarah Bachmann was acknowledged for her 20 years of service as the CEO of National Precast. "Sarah's passion, dedication, sleepless nights and laughter have helped all of us grow and be successful in our respective businesses, says Strattord "On behalf of the association recognise Sarah's amazing terure with a 20 year service award and gift" Inside Construction was proud to support and attend the event as an official media partner of National Precast. ॥n


## ASSOCIATIONS

The National Precast Concrete Association Australia

## Innovating <br> infrastructure projects

Infrastructure projects across Australia are se to reap the benefits of a new retaining wall system that is now available locally.

## Project

vingham Level Crossing
Read contractor
ntractor
TP Alliance (McConnel
Dowell, Arup and Mott
Macdonald with the South
Australian Gover
Department for
Transport)
Master Precaster
The Reinforced Earth
Company

A new retaining wall system is being used on a level crossing removal project delivering significant enhancements in bot construction safety and speed. The new systern combines precast and in situ concrete construction to deliver a highly efficient and robust cantilever retaining wall. National Precast Concrete Association Australia Master Precaster The Reinforced Earth Company has brought the new technology to Australia. Full-height tacing
panels that come complete with pre-attached perpendicular counterforts are manufactured and then delivered to site. The integrated counterforts are then jointed onsite to a structural concrete footing.
The Ovingham Level Crossing Removal first infrastructure project in Australia to try the new system.

Level crossing removals prioritised The removal of level crossings across the country involves eliminating intersections between roads and railway lines by either
elevating rail lines or lowering roads. The main objective is to reduce the risk of accidents and fatalities associated with level crossings, which are known to be high-risk areas.

There are more than 23,500 railway level crossings in Australia, according to the Australian Rail Track Corporation. Of these, 21 per cent have operational boom gates o
flashing lights. The dangers are real. with around 30 fatalities every year resulting rom level crossing collisions and more than 1,000 near hits annually between vehicles and trains.
Prioritising the removal of level crossings howcases commitment by Australian overnments to modernising transportation communities and for the efficiency of cities. Collaborating with rail and transpor athorities to plan, fund and execute these pojects, governments consider factors like community impact, cost-effectiveness and to enhance safety, efficiency and traffic flow cross the nation.

Removed for safety and efficiency Ovingham has long experienced significant raffic congestion due to the presence of multiple level crossings. The crossings often and hindered emergency response times. The aging infrastructure and growing population exacerbated the issue, necessitating a comprehensive level crossing removal projec


NATIONAL PRECAST
By the National Precast Concrete Association Australla.

Jointly funded by state and federal governments, the $\$ 196$ million Ovingham
Level Crossing Removal Project is removing hevel Cresssing Removal Projectis remoning and involves construction of a new 180-metre-long bridge that connects into two approach ramps, with three lanes city-bound and two outbound lanes
Executed in multiple phases, innovative engineering techniques have been employed across the project to ensure minimal disruption and to maintain safety during the
construction process.

With an average of 21,300 vehicles passing through the level crossing daily, its removal will significantly impact safety, freight productivity and connectivity and traffic flow in the area

New heights for retaining wall technology As a fundamental component of civil etaining walls aid in managing slopes, preventing erosion and creating usable spaces on uneven terrain. Advancements in materials, and design and construction
techniques have revolutionised the field of retaining wall technology, leading to structures that are not only highly functional but also aesthetically pleasing. Never before used in Australia but widely used across America and Europe. The Reinforced Earth Company's TechWall
system presents a new, innovative concept for optimising retaining walls.
Known as a counterfort retaining wall system, it consists of full-height wall facing units which can easily feature architectural detailing and patterns.
Panels are delivered with counterforts precast on the rear side and protruding rebar formed, reinforcement is placed and the pane dowels are tied in to provide the necessary embedment and development lengths. rne cast-in-place footing is then poured, securing the panels in place and increasin he effectiveness of the load transfer mechanism to the ground
Riccardo Musela, The Reinforced Earth Companys managing director in Australia, nit meatern' full height monolithic

The new
retaining wall
system improv system improv
construction construction
safety and speed
"The new system combines precast and in situ concrete construction to deliver a highly efficient and robust cantilever retaining wall."
needed and it is a simple and economic replacement for traditional cast-in-place cantilever wall designs This system will revolutionise retaining walls, says Musela. It is perfect for narrow obstructions within the fill zone, and offers complete aesthetic versatility, with facing panels allowing for a wide variety of surface patterns and texture if desired.
Improved safety gets the thumbs up The project has received resounding improved safety and convenience brought about by the upgrades and impressed by the walls, bridge and plaza, all of which look like works of art thanks to the stunning urban design that translates Aboriginal stories Serving as a blueprint for similar infrastructure projects, the Ovingham Level Crossing Removal Project is enhancing safety, connectivity and overall quality of life in urban areas. Its success highlights the importance of thorough planning, stakeholder engagement and innovative construction techniques in demonstrates the potential for transformative infrastructure projects to enhance communities and lays the groundwork for future urban development. Musella says he is very proud that his company had the opportunity to work with the PTP Alliance to bring this technology highly successful, as evidenced by the notable achievements on the Ovingham Level Crossing Removal Project. ne
"The Ovingham Level Crossing Removal Project in Adelaide, South Australia
is the first infrastructure project in Australia to try the new system."

