

# Australia



**Name:** Australian Tunnelling Society (ATS)

**Type of Structure:** The ATS is an industry based Technical Society of Engineers Australia (EA).

**Number of Members:** 765 members, 64 Corporate Sponsors, 6 Platinum Sponsors

## ASSOCIATION ACTIVITIES DURING 2022 AND TO DATE

**Activities and Events:** With the ongoing pandemic in 2022, the Australian Tunnelling Society's activities moved into a hybrid space with online and in person events, where possible. The focus of 2022 was a celebration of 50 years of the ATS culminating in a national event that was streamed from

Sydney Melbourne and Brisbane with an address from National President Harry Asche, Arnold Dix and various other Australian Tunnelling entities. The Allen Neyland Achievement Award (50th Anniversary) was presented to Alan Robertson (retired).

The annual David Sugden Technical writing award was presented to Ivan Haryono

(WSP/Golders).

Other events and technical sessions included:

- The Main Range Railway built 1865-1867  
*3/02/2022*
- Snowy 2.0 underground project overview and update  
*8/03/2022*
- WA Office Bearer (Volunteer) Induction  
*10/03/2022*
- Management and maintenance of sewer tunnels  
*24/03/2022*
- ATS Legends panel discussion - 50th Anniversary presentation  
*28/04/2022*
- Tunnel systems: three decades of Australian tunnel systems operation stall & axial fan parallel operation  
*28/04/2022*



Cross River Rail Brisbane



Forestfield Perth



Kidston Pumped Hydro

- ATS Tunnel Design Guideline  
23/05/2022
- Diversity in Tunnelling Launch - Sydney  
25/05/2022
- ATS Short Course - Sydney  
26 and 27th /05/2022
- Spaceproofing for Tunnels  
02/06/2022
- Challenges in creating caverns in urban areas – Melbourne Metro Tunnel  
09/06/2022
- Lessons learnt from past tunnelling project Experiences – 50th Anniversary presentation  
7/07/2022
- Sustainability in underground spaces  
4/08/2022
- Tunnel lighting functionality  
18/08/2022
- Suburban Rail Loop – Ground Conditions and Tunnelling Challenges  
14/09/2022
- ATS QLD One Day workshop – Major underground projects in Queensland  
06/10/22
- Innovation in mechanised tunnelling  
15/09/2022
- ATS 50th Anniversary National Celebration - Sydney, Melbourne, Brisbane and Perth  
13/10/2022
- St Barbara Day Dinner – Melbourne, Sydney, Brisbane  
01/12/2022

**Publications:** The ATS ANZ Journal was published twice in the last calendar year in conjunction with Tunnelling Journal. The second issue was a celebration of 50 years of the ATS in Australia showcasing major projects over the years, articles from Australian industry experts and other Australian tunnelling representatives. A highlight in the journal is a 10 page timeline which sets out the ATS’s progress over the last 50 years and how it has important industry body for its members.

**Working Groups:** Diversity in Tunnelling sub-group (formerly Women in Tunnelling) is made up of representatives from the various ATS chapters interested in promoting and supporting diversity in tunnelling. Since launching in the second half of 2022 they have had a busy year. Lately they have just launched a Mentoring & Buddy Program which has been extremely well received. Collaboration with overseas organisation from Canada and Greece is currently being investigated.

**CURRENT TUNNELLING ACTIVITIES**

- West Gate Tunnel, Melbourne, VIC - 6000m
- Melbourne Metro Tunnels and Stations PPP, Melbourne, VIC - 18,000m
- WestConnex Stage 3B (Rozelle Interchange), Sydney, NSW - 19,000m
- Snowy 2.0, Cooma NSW - 27,000m

- WestConnex Stage 3 - M4-M5 Link, NSW, Sydney - 17,000m
- Cross River Rail Tunnels & Stations Development PPP - 10,000m
- Kidston Pumped Hydro, Regional QLD
- Brisbane Metro, Brisbane, QLD
- Western Harbour Tunnel Phase 1 -Sydney, NSW
- Sydney Metro West Central package CTP - Sydney, NSW - 22,000m
- Sydney Metro West Western package WTP - Sydney, NSW - 18,000m
- Suburban Rail Loop - Melbourne, VIC

**FUTURE TUNNELLING ACTIVITIES**

- Blue Mountains Road Tunnel, NSW
- Western Harbour Tunnel, Sydney NSW
- Coffs Harbour Bypass, Regional NSW
- Western Sydney Metro Eastern Package, Sydney NSW
- North-South Corridor, SA, Torrens to Darlington
- South West Rail Link Extension, NSW
- ARTC Inland Rail, QLD

**EDUCATION ON TUNNELLING IN THE COUNTRY**

Post-graduate (Master of Engineering) subject courses were held at the University of NSW, The University of Queensland, Royal Melbourne Institute of Technology, and the University of Wollongong.