

Chile



Name: Committee of Tunnels and Underground Spaces (CTES)

Type of Structure: Non-profit, open association



Number of Members: 97 Members (81 are companies from the industry)
Corporate Members: 25 Category Gold, 51 Category Associated and 21 Individual members.

ASSOCIATION ACTIVITIES DURING 2019 AND TO DATE

1. Seminars and conferences

- Progress, challenges and future works to be carried out in NNM Andes Norte project, Codelco El Teniente
- Mechanical excavation TBM-TBS and underground mega-projects
- Vision of the use of underground spaces for infrastructure.

2. Training

- None

3. Technical Lectures

- International Symposium: Mechanical Excavation TBM-TBS and Underground Megaprojects
- Design and construction of tunnels with TBM; CTES –ARCADIS

4. Other

- Creation of a Young Members Technical Group
- Agreement of a partnership with Instituto del Cemento y el Hormigón (Cement and Concrete Institute Chile)
- Agreement of a partnership with the Architecture Offices Association to aid the development of underground spaces
- Photographic contest for underground spaces in Chile
- Technical Committee's formed for the revision and upgrading of the Highway Manual of Chile for tunnelling issues
- Technological mission to Poland and Czech Republic

FUTURE TUNNELLING ACTIVITIES

April 2020 – Challenges works preparation Quinquenio Mine, CODELCO

May 26th – 27th Seminar: International Standards in Road Tunnels

July 2020 – Best Practices in Tunnel Components (fortification elements, waterproofing, mechanized equipment, cables, bolt-mesh)

August 2020 – Technological mission to Finland and Sweden

August 2020 – Training in fortification elements.

September 2020 – Seminar: Tunnelling and Underground Spaces to students (University La Serena)

September 2020 – Conference: Vertical Transportation of Mining and Tunnelling materials

October 2020 – International Workshop on Underground Works

November 2020 – Conference: Equipment and Explosives for Underground Uses.

December 2020 – Seminar on Materials and Products for Tunnels

EDUCATION ON TUNNELLING IN THE COUNTRY

1. Postgraduate Diploma in Tunnels and Underground Spaces; University of Chile
2. Diploma in Modern Tunnel Excavation Techniques; University of Santiago of Chile
3. Diploma in Applications of Soil Mechanics in Civil and Building Works, Pontifical Catholic University, Chile