

# HUNGARY

Name of Association: Hungarian Tunnelling Association

Type of Structure: Non-profit, open association

Number of Members: 56 individual and 17 corporate members



## ASSOCIATION ACTIVITIES DURING 2023 AND TO DATE

The association board had four meetings. Three professional meetings were organized on the following subjects:

1. "50 years practice in the field of tunnelling", Mr. Gusztav Klados lectured on his practice and case studies in tunnelling. Our society granted the Medallion for Tunnelling to Mr. Klados. Participants - 47
2. Earthquake effects on underground

- structures. Number of lecturers 5, participants - 34
3. At the end of the year the St. Barbara social evening was organized. Participants - 35

## CURRENT TUNNELLING ACTIVITIES

Tunnelling activities in progress:

- Expressway M85 Sopron bypass, twin tunnels under Bécsi hill. Both tunnels are nearly finished. Excavation and primary lining completed in February,

with final lining complete in December 2023. Finishing and installation works are ongoing. Each road tunnel started in 2020. The opening will be at the end of this year.

- Reconstruction is on-going at the M3 metro line. Most of the reconstruction is finished.

## FUTURE TUNNELLING ACTIVITIES

### Tunnel-chain on expressway M100

The M100 expressway will be built to offer a transport alternative towards the capital, and may even replace the environmentally sensitive sector of the M0 North-West (main road No 11 - main road No 1), which currently has no definitive route. The M100 expressway is a 32.3km long 2 x 2 lane expressway with no stopping lanes. Due to the complexity of the project and the topography of the site, special technical solutions

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characterize the entire expressway. Its hilly nature ensures the complexity of the route, which includes three pairs of tunnels with a total length of 2 x 1km and five huge valley bridges with a total length of 2 x 2.3km.

## **Bátaapáti - Expansion of the underground storage area for radioactive waste**

The construction of two additional storage chambers in the western area of the chamber field will be tendered this year, which, together with the four storage chambers built so far, will ensure the safe storage of low and intermediate level radioactive waste.

The storage chambers will be located in the monzogranite rocks of the Móragyi Granite Complex, about 270m below the surface. The previously built chambers have a cross-sectional area of 96 -114.9m<sup>2</sup>, a width of 11.9m - 12.06m, a height of 9.98m - 11.2m and a length of 78.3m - 115m. The new chambers have a cross-sectional area of 133.8m<sup>2</sup>, a width of 13.7m, a height of 11.6m and a length of 131.1m - 144.3m. The chambers were built or will be built in rock classes II, III and IV according to the RMR (Rock Mass Rating) classification.

## **EDUCATION ON TUNNELLING IN THE COUNTRY**

**Miskolc University** - a new civil

engineering BSC course will start, one of the main subjects will be tunnel construction and its site management

**Budapest University of Technology and Economics**, Faculty of Civil Engineering  
- University of Győr, Faculty of Civil Engineering

## **STATISTICS**

1. List of tunnels completed:  
Ventilation cross-passage for the M4 metro line, 20m long conventional
2. List of tunnels under construction:  
Expressway M85 Sopron bypass, twin tunnels under Bécsi hill. Final lining and finishing works