

Sweden



Name: Swedish Rock Engineering Association

Type of structure: Non-profit, open association

Number of members: 84 corporate members from public and private clients, contractors, suppliers, mining companies, consulting firms, institutions and research organizations.

New bus terminal at Slussen Stockholm
Slussen is the area around the lock between lake Mälaren and the Baltic Sea. This is a hub in Stockholm and a very busy area and is now being re-constructed with new bridges, water works etc. In addition a large bus terminal will be built underground. These tunnelling works will commence during 2018.

Ostlänken, the East Link high speed rail
New high speed rail south of Stockholm.
Design ongoing.

SKB Forsmark, final repository nuclear fuel
Planning is continuing regarding Sweden's



Slussen - rebecca karlsson



Slussen:
Copyr Bengt
Ageford

ASSOCIATION ACTIVITIES DURING 2017 AND TO DATE

During 2017 the association has been re-organized and re-named the Swedish Rock Engineering Association (Svenska Bergteknikföreningen). Four permanent working groups constitute the backbone of the association. These working groups are "Yearly Congress", "International", "Competence Development" and "Young Members". The association works towards a sustainable use and development of Swedish underground space. The main activity is to arrange an annual Swedish congress. In 2017 the congress gathered 480 delegates. During 2017 the Young Members arranged a regional event in cooperation with ITAYM at LKAB mine in Kiruna. Discussion with ITACUS continued during the year with the aim of establishing a Think Deep Sweden group during 2018. The association is also actively participating in research and development projects with the purpose of developing the underground space industry.

CURRENT TUNNELLING ACTIVITIES

Citybanan, Stockholm

In July 2017 the new commuter train link through Stockholm was opened.

E4 Förbifart Stockholm (Stockholm By-pass)

This mega project includes an 18km long road

tunnel with an excavation volume of 6,500,000m³. During 2017 the construction activities have been ongoing along the complete route. Major tunnelling works are ongoing within several contracts.

Västlänken, Gothenburg

Västlänken (West Link) is a large railway project in the center of Gothenburg in order to convert the present terminus into a through station for commuter trains. The project is built in a dense urban environment with very complex geotechnical conditions with a mix of loose clay and hard rock. During 2017 work started on the first sections within two ECI contracts and two design & build contracts were let. Construction activities will commence during the first half of 2018.

Relocation of the city of Kiruna

Due to ongoing controlled collapses above the large Kiruna iron ore mine, the city needs to be re-located. This is a major undertaking that has been ongoing for some time. During 2017 construction activities related to the new city centre have been ongoing.

FUTURE TUNNELLING ACTIVITIES

New Stockholm metro

An extensive expansion of the Stockholm metro is planned with three new lines. This will include major tunnelling works and is the next mega project in Stockholm.

final repository for spent nuclear fuel. During 2017 the process of getting the necessary permits have been ongoing.

New sewage tunnel through Stockholm

A 14km sewage tunnel will be built under Stockholm in order to upgrade the sewage system and connect the western parts of Stockholm to the major underground sewage plant at Henriksdal. Construction works will start during 2018.

Varberg railroad tunnel

The West coast link is still missing a double track through the city of Varberg. During 2019 construction works will start on the new 9km section, 3km of rock tunnel will be built.

STATISTICS

1. Length or volume excavated - % mechanized / % conventional during 2017:
No statistics available.
2. Amount (USD or EUR) of tunnelling / underground space facilities awarded in 2017:
>€600M
3. List of tunnels completed:
Citybanan Rail tunnel in Stockholm
4. List of tunnels under construction:
Stockholm by-pass
West link Gothenburg