

Thursday 14th September 2017 at 18:30

at the

London Underground Offices - 55 Broadway SW1H 0BD

Northern Line Extension



Speaker
Neil Moss (Principal Tunnel Engineer)

The Northern line is being extended to Battersea and will help regenerate the Vauxhall, Nine Elms and Battersea areas, supporting 25,000 new jobs and more than 20,000 new homes. Two new stations to be built at Nine Elms and

Battersea Power Station are targeted for completion in 2020.

The Northern Line Extension moved a significant step forward recently as the first of two giant tunnel boring machines, Helen, began her 3.2km tunnelling journey to extend the line from Kennington to Battersea.

Helen, and her sister machine Amy, were lowered 20 metres below ground in Battersea in February, in the shadow of the iconic Battersea Power Station. Helen has now set off under south London to create the first of the underground tunnels that will extend the Charing Cross branch of the Northern line from Kennington to Battersea Power Station, via Nine Elms. Amy will follow in around a month.

The extension, targeted for completion in 2020, is the first major Tube line extension since the Jubilee line in the late 1990s.

As the 100 metre long tunnelling machines advance forward, nearly 20,000 precast concrete segments will be put in place to form rings to line the tunnels. A conveyor system will then take the spoil from the tunnels up to barges on the River Thames. More than 300,000 tonnes of earth will be excavated by Helen and Amy in this way before the spoil is taken by barge to Goshems Farm in East Tilbury, Essex where it will be used to create arable farmland.

Each machine is capable of tunnelling up to 30 metres a day with teams of around 50 people operating them. Tunnelling is expected to take around six months to complete.

According to tunnelling tradition, tunnel boring machines cannot start work until given a name. Following a vote by local school children, the machines were named in honour of the first British astronaut, Helen Sharman, and British aviation pioneer, Amy Johnson, who was the first female pilot to fly solo from Britain to Australia

THERE IS NO CHARGE FOR THIS MEETING AND ALL ARE WELCOMED.

TEA AND COFFEE WILL BE SERVED FROM MID-WAY THROUGH THE PRESENTATIONS



Event Registration

If you would like to attend please use the following link to reserve your place:

Please inform (elira.alushi@ice.org.uk) if you are an RCEA member and would like an attendance certificate (RCEA members only).

Attendance Certificates for RCEA members to support CPD logs

Please fill out the form at the event if you would like a CPD certificate

Each individual must determine if the meeting meets their professional body's CPD requirement.

THERE IS NO CHARGE FOR THIS MEETING AND ALL ARE WELCOMED.
TEA AND COFFEE WILL BE SERVED FROM MID-WAY THROUGH THE PRESENTATIONS