

# British Tunnelling Society

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## NEWSLETTER April 2003

### INTRODUCTION - CTRL

The first major milestone on Section 2 of the Rail Link took place on 4<sup>th</sup> March 2003 when the first of the two drives under the River Thames broke through after a 2,515m long drive from Swanscombe to Thurrock. The Herrenknecht slurry machine named 'Molly the Muncher Cruncher' by the children of a local Northfleet Primary School started the drive in mid September 2002 and completed the drive in five and a half months. The average weekly progress was in excess of 100m per week with a peak weekly progress of 235m.

The Contractors for Contract 320 is the Hochtief/Murphy JV, with Rail Link Engineering, a consortium of Arup, Bechtel, Halcrow and Systra, as designers and project managers on behalf of Union Railways (North) Ltd.

The progress on the drives on the other contracts at 16<sup>th</sup> March were:

Contract 220	first drive	3,166m
	second drive	1,398m
Contract 240	first drive	378m
	second drive	108m
Contract 250	first drive	1,000m
	second drive	678m

Over 23% of the tunnel drives are now completed

### GOSSIP

Any interesting pieces to  
[rodneycraig@compuserve.com](mailto:rodneycraig@compuserve.com) please.



TBM after arriving at Thurrock portal

(by courtesy of Rail Link Engineering)

## MARTIN ANNETT

Many members will have heard of the sudden death in Hong Kong in January 2003 of Martin Annett. Martin had been in Hong Kong for a number of years and retired last December from MBT. He planned to move and settle in the Philippines where he and his wife Marizza had a house outside Manila. Peter Murphy attended the funeral on behalf of the Society.

Martin enthused about his tunnelling work in shotcrete, injection grouting, admixtures, repairs etc., with Fosroc and particularly on the Channel Tunnel and with MBT in Hong Kong. He had a good sense of humour, was generous, always keen to talk, buy a drink or meal and talk about his work, his boat and other interests.

Martin represented the Society on two of the International Tunnelling Association Working Groups over a period of 15 years, but mainly on the Shotcrete Working Group where he was an active member. He always looked forward to the annual meetings. Before he had retired he had already booked his flights and hotel for the next Working Group meetings in Amsterdam in April. He will be sadly missed.

## FUTURE MEETINGS

All meetings start at the Institution at 17.30 unless stated. Flysheets on the details of the meetings are circulated in advance in T&TI and details are also posted on the website a month or so in advance of the meeting.

**9<sup>th</sup> April 2003**      **Joint Meeting with BGA on Interchange Innovation- Tunnel Jacking on Boston's 'Big Dig'**

**24<sup>th</sup> April 2003**      **The Harding Prize Competition** See below.

**22<sup>nd</sup> May 2003**      **AGM followed by New York Second Avenue Subway**

**19<sup>th</sup> June 2003**      **Box Jacking under M1**

The ICE's James Forrest Lecture is being given by Professor John Burland at the ICE on 15<sup>th</sup> April 2003 at 6pm. His topic is 'A Tale of Two Towers -

Pisa and Big Ben. Big Ben has been influenced by several construction projects, including the underground car park beneath New Palace Yard, and the construction of the new Westminster Station and associated tunnelling works on the London Underground Jubilee Line Extension. If you plan to attend please register with Kathleen Hollow at the ICE 02076652242, or [kathleen.hollow@ice.org.uk](mailto:kathleen.hollow@ice.org.uk)

## HARDING PRIZE COMPETITION - 2003

There has been an excellent entry for the Harding Prize with the receipt of eight papers. This is the same number as submitted in 1999. At the time of going to press the papers were being adjudicated and the names of those on the shortlist was not available. More details will be given in the next newsletter.

## ANNUAL DINNER

The Annual Dinner is being held on Friday 9<sup>th</sup> May 2003 at the Brewery, Chiswell Street, London EC1. The dinner, as usual, will be held in the Porter Tun Banqueting Room and reception in the King George 111 Room. Following the dinner there will be a short ceremony when the Winners of the Tunnel Industry Awards will be announced and presented. The evening will end with music from Brass Farthing.

The flysheet was distributed with the February issue of Tunnels & Tunnelling International. The price of tickets is £65 per person with no different rate for members or non-members. If you do not have a form please contact John Scholey at KBR, Hill Park Court, Springfield Drive, Leatherhead, Surrey KT22 7NL, fax 01372863285 or e-mail [john.scholey@haliburton.com](mailto:john.scholey@haliburton.com)

## TUNNELLING INDUSTRY AWARDS

Entries for the awards are now in and the adjudication of the shortlist of projects for each of the six categories, and the winners will held during the International Tunnelling Association meeting in Amsterdam from 12<sup>th</sup> to 17<sup>th</sup> April 2003.

## TUNNEL LOBBY GROUP

## TUNNEL DESIGN AND CONSTRUCTION COURSE

The formation of the All Party Parliamentary Group for Underground Space has been greeted enthusiastically by other learned societies and professional groups. The first meeting in 2003 was in early February when a presentation was given in Portcullis House on the subject 'Holes in the road – let's make them history'. Anwar Sardiwalla of London Electricity and Norman Howell of the UKSTT spoke on different aspects of the utilities sector.

Unfortunately, our event clashed with the debate on the reform of the House of Lords so only one Parliamentarian appeared at the meeting. It was a disappointment to Helen Natrass after all her efforts in the preparation, and also for the number of BTS Members and Guests who came expecting to discuss their opinions with MPs. However, these things must be faced with equanimity in the parliamentary forum.

We are organising a visit to the CTRL in early April. This will be a small group of only six Parliamentarians without general participation.

After Easter we hope to arrange a follow-up visit to London Electricity's Leicester Square underground substation in May. The numbers will be limited on this visit too, but will reach double figures. We hope to match the number of parliamentarians with BTS/Utilities Guests to restate some of the messages they missed in February.

We will conclude the season with another presentation in June/July – a more open occasion when larger numbers can be accommodated.

Over and above all that we are still supporting meetings of the Associate Parliamentary Engineering Group. Their meetings give us another opportunity to listen to presentations from others, meet Parliamentarians and get our views across.

For further information on current BTS Lobby Group activities contact Helen Natrass 0207 8085141 or e-mail [h.natrass@sir-robert-mcalpine.com](mailto:h.natrass@sir-robert-mcalpine.com)

The Society is holding one combined course this year from 30<sup>th</sup> June to 4<sup>th</sup> July entitled 'Tunnel Design and Construction'. The course will provide a foundation in the many aspects of tunnelling from client requirements, through planning and ground investigation, design, the letting of contracts and practical aspects of construction process. Experienced engineers from the industry will give the benefit of their experience to delegates through lectures and course study materials.

The course will also incorporate a number of Health and Safety presentations based upon the Society's Health and Safety course, which will not be run as a separate course this year.

Delegates will be offered the opportunity to attend for the whole five days, or alternatively to attend Module 1 – Design, from Monday to Wednesday, or Module 2 – Construction, from Wednesday to Friday. All delegates will be present for the core Health and Safety topics on Wednesday.

There will be ample opportunity to question lecturers on their subjects, which include

- Survey, site investigation and geotechnical aspects of tunnel design
- Temporary works design and construction
- Linings and ground support including NATM
- Mechanised tunnelling, tunnel plant and equipment
- Settlement associated with tunnelling, and the effect of compensation grouting
- The use of compressed air, ground treatment and grouting
- Contractual and commercial matters including risk
- Safety relating to design and construction
- Legislation

Application forms can be obtained from Hannah Wilson at the Institution of Civil Engineers, One Great George Street, London SW1P 3AA, tel 44 (0)2076652313, fax 44 (0)2072331743 [www.ice.org.uk](http://www.ice.org.uk) or [www.thomastelford.com](http://www.thomastelford.com) Copies will also be in circulation to members and in the technical press.

**Please support the course.**

## HEALTH AND SAFETY

The BSI Working Group 2 has begun work on the revision of BS 6100:1990 – Glossary of Building and Civil Engineering Terms – Subsection 2.2.3 Tunnels.

The proceedings of last years Oxford Conference on Engineering and Health in Compressed Air Work will be published later in the year by Thomas Telford. The HSE has sponsored the publication.

## **INTERNATIONAL TUNNELLING ASSOCIATION**

The annual International Tunnelling Association meeting is being held in Amsterdam from 12<sup>th</sup> to 17<sup>th</sup> April 2003. Martin Knights, KBR, is one of four candidates for the one vacant position as a Member of the Executive Council.

A full report of the General Assembly meetings and the meetings of the Working Groups will be given in the next issue of the Newsletter.

## **UNDERGROUND CONSTRUCTION 2003**

The list of papers for the Conference has now been selected and authors have been asked to submit their papers by the end of April 2003.

The final circular for the Conference will be published in April. More details will be given in the next newsletter.

## **CONFERENCES**

Don't forget to look at the back pages of Tunnels & Tunnelling International and World Tunnelling for the conferences coming up over the next two years. Also the International Tunnelling Association website [www.ita-aites.org](http://www.ita-aites.org)