

British Tunnelling Society

at The Institution of Civil Engineers

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NEWSLETTER June 2006

INTRODUCTION

The June meeting is on 22nd June – **Please note the date as it is not the third Thursday as normal.** This will be the last meeting before the summer. We start the next session schedule in September.

Since the last Newsletter we have had several important events – so read on!

Annual General Meeting – 18th June 2006

The Annual General Meeting took place on 18th May.

The James Clark Memorial Medal was presented to Alan Dyke, Managing Director, Union Railways, for the completion of the tunnelling works for the Channel Tunnel Rail Link within budget and time. See below.

Three new Committee members were elected, who will be welcomed to the next Committee meeting on 22nd June.

Geoff Bateman, Scott Wilson Tunnelling
Damian McGirr, Donaldson Associates Limited
Colin Eddie, Morgan Est

Details of the Committee and the Sub-Committee Chairman will be given in the August Newsletter, following the first meeting of the new Committee.

James Clark Memorial Medal

Madeleine Clark very generously bequeathed a sum of money in 1981 to provide a medal to be awarded annually to perpetuate James' memory. The criteria were:

- A contemporary achievement in tunnelling

- Innovation or responsibility for a large project, to which later was added,
- A major contribution to the tunnelling industry

The medal has been awarded for 25 years, although there were three years in the mid 1980s when there was no recipient. Over the 25 years there have been 26 recipients, two posthumously. The 25th anniversary was celebrated with a lunch on 18th May 2006 at the St Ermins Hotel in Caxton Street. We were very pleased that Madeleine Clark, who celebrated her 90th birthday this year, and her grand daughter Deborah? (bill I am not sure of her name) were able to attend the lunch.

Of the 26 recipients, nine have died. Fifteen of the seventeen recipients were able to attend the lunch, together with David Court and Bill Grose, the Chairman and Vice Chairman of the Society. All enjoyed two and a half hours of reminiscences of tunnelling in the past.



James Clark Memorial medal lunch group with Madeleine Clark

After the lunch David Court presented a Medal to Ken Moore, retired from Edmund Nuttall, who was his Agent when David joined Edmund Nuttall.

Ken was awarded the Medal in 1984 for his long and distinguished contribution to tunnelling, but as he was in Athens at the time on an eighteen month consultancy, it was agreed that the Medal would be presented on his return to the UK. However, regrettably this never occurred. The omission was picked up when the arrangements for the lunch were being made.



Ken Moore receiving the medal from David Court

The James Clark Memorial Medal for 2006 was presented at the AGM to Alan Dyke for his contribution to the success of the London Alliance which proved to be of significant importance in completing the high risk tunnelling works on Section 2 of the Channel Tunnel Rail Link.

David court said in his citation said that Alan joined British Railways in 1964 and was appointed Works Engineer for the Southern Region in 1985. In 1989 he was appointed Civil Engineering Design Manager for the Channel Tunnel Rail Link and worked on the project until he retired in 2005. In 1991 when Union Railways was formed he became Chief Engineer, responsible for promoting the project and the engineering justification through the Parliamentary process.

In 1996 Union Railways became a subsidiary of London & Continental Railways and he became a director and the Clients representative for overseeing the development of

Section 2. During the next few years Alan had a number of positions culminating as Managing Director of Union Railways (North).

Following the award of four major underground construction contracts for Section 2, with a total Target price of nearly ½ billion pounds, Alan led a move to integrate the construction of the four contracts by forming an Alliance between the four joint ventures and the Client's Engineer, Rail Link Engineering (RLE).



Alan Dyke with David Court

With the support of all parties and Alan as the Client the Contractors and RLE formed an Alliance with a management team comprising the Project Directors of each contract and the Project Manager of RLE. This team focussed on the management of all aspects of the London Tunnels including the design, joint procurement, the outturn project costs and they facilitated joint solving of technical problems from within the group. The team focussed on managing the overall project programme and removing any interface problems as well as managing a joint liaison approach to third party interfaces.

It is a matter of record that the Alliance was a huge success with the works being completed on time, within budget and with the works being carried out in a non adversarial partnering atmosphere and in awarding this year's medal to Alan Dyke we salute the contribution that Alan as the Client and the many members of the contracting organisations and RLE that were involved in this unique venture.

FUTURE MEETINGS and EVENTS

All meetings now start at the Institution at 18.00 unless stated, with tea and coffee on the lower ground floor from 17.30. The bar opens at 17.30 and is open until late. Flysheets on the details of the meetings are circulated in T&TI and details are also posted on the website a month or so in advance of the meeting.

22nd June 2006 **UK Research Showcase**
(please note the date not third Thursday)

There will be four presentations:

Ground movements in clay.

Soil conditioning for pipejacks and EPB machines.

Characterisation and numerical modelling of fractured rock.

HAVS Guidelines

21st September 2006 **Tunnel Maintenance**

GOSSIP

Any interesting news about members to rodneycraig@compuserve.com

LOBBY GROUP

Hurrah!! The All Party Parliamentary Group for Underground Space has been re-formed and the registration in Parliament completed. On 18th April the Rt. Hon. Nick Raynsford was elected Chairman of the group at the AGM.

The AGM was followed by a reception in Portcullis House hosted by Nick Raynsford and sponsored by the Society. About 80 guests of the Society from all sectors of the tunnelling industry attended.

There were small displays from Crossrail, Thames Water, UKSTT, MorganEst/Trevi and the BTS which provided a colourful and topical surrounding to the proceedings. More than a dozen MPs and Peers looked in, some staying a considerable time. This re-launch event was very successful. We had coverage from the New Civil Engineer and from Tunnels & Tunnelling International.

On 9th May Thames Water hosted a visit to the sewers and Abbey Mills Pumping Station in East London. A small group of three peers and Bill Grose and Helen

Hattrass from the Committee donned thigh waders and went a stroll through "lumpy" water and then viewed the old pumping station. This event also provided an opportunity for Thames Water to discuss their future plans such as the Tideway Project directly with Parliamentarians.

The next APGUS meeting will be held on 19th July at 18.00 in the Boothroyd Room, Portcullis House with a presentation on Underground Nuclear Waste Disposal. More details will follow.

Further information from Helen Natrass h.natrass@sir-robert-mcalpine.com
Tel 07803 612556.

TUNNEL DESIGN & CONSTRUCTION COURSE 2006

The annual BTS Tunnel Design & Construction Course will be held at the University of Surrey, Guildford from Monday 26th June to Friday 30th June 2006. **There is still time to book on the course.**

The course is divided into two modules – Module 1 Tunnel – Design, Monday to Wednesday and Module 2 – Construction, Wednesday to Friday. The common day to both modules is the very important aspects of Health & Safety, including insurance and risk. Delegates can attend one of the 3 day modules or the full five day course.

Monday and Tuesday will provide a foundation in the many aspects of tunnel design covering feasibility studies and route planning, ground investigation and interpretation, rock mass classification, temporary work design, the formation of junctions and opening, tunnel lining design for hard rock and sprayed concrete linings, segmental lining design, tunnel ventilation and life saving engineering, ground movements and types of tunnel lining.

Wednesday will cover Health & Safety Aspects, the insurance Code of Practice, design for safety and risk assessments.

Thursday and Friday will cover construction and practical aspects of the many construction processes, fire and emergency response, soil conditioning, environmental aspects, ground treatment, repairs and refurbishment of tunnels, project health and safety management, soft and hard ground TBMs, surveying, hard ground temporary works techniques and design, forms of contract and logistics.

Experienced engineers from the industry will give the benefit of their experience to delegates through lectures, course study materials and discussion.

Details of the course are about to be posted on the website or can be obtained from The Institution of Civil Engineers, One George Street, London SW1P 3AA,

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tel 44 (0) 2076652313, fax 44 (0) 2072331743,
conferences@ice.org.uk. You can book on line
www.iceconferences.com

INTERNATIONAL TUNNELLING ASSOCIATION

The ITA General Assembly was held in Seoul, Korea from 22nd to 27th April 2006, in conjunction with the Korean Tunnelling Association conference "Safety in the Underground Space". See www.ita2006.com.

The British Tunnelling Society nominated Edinburgh for the 2009 ITA Annual General Assembly. Budapest, Hungary, has also been nominated. It was a very close contest which Budapest won by 18 votes to 17. Full details and how we got a piper to Seoul will be in the next newsletter, together with a full report on the Working Groups.

BTS CLOSED FACE WORKING GROUP

Copies of the Report are selling well. The Report which costs £65.00 is available from Thomas Telford, (Tel 44 (0) 1892 832299, Fax 44 (0)1892 837272, orders@thomastelford.com or via the internet www.thomastelford.com) from the ICE bookshop at Great George Street and other outlets.

HAV's BEST PRACTICE GUIDE

The HAV's Best Practice Guide is in the final editing stage and it is hope that it will be published on the website in late June.

The document which has had a significant contribution from the HSE will provide the industry with a Current Best Practice Guide to the management of HAV's and will be essential reading for all.

FIRE PROTECTION ENGINEERING FOR UNDERGROUND STRUCTURES

The Society is presently jointly organising with the ITA a conference in the UK in October 2006 entitled "Fire Protection Engineering for Underground Works".

GEODRILLING 2006

Mining Communications are the organisers of GeoDrilling, incorporating Trenchless Construction, which is being held at Donnington Park, Derby on 21 – 22nd June 2006 which will feature over 100 exhibitors, technical seminars and live demonstrations.

Mining Communications have written to the Society offering free visitor tickets to members. From the middle

of March the Visitor Tickets will be available from the Mining Communications website www.minesandmoney.com or www.geodrillingshow.com.

CONFERENCES

Don't forget to look at the back pages of Tunnels & Tunnelling International and Tunnelling and Trenchless Construction for the conferences coming up over the next two years. Also the International Tunnelling Association website www.ita-aites.org

NAT 2006, 10th – 15th June 2006, Chicago, USA.
www.auca.org