

**THE BRITISH TUNNELLING SOCIETY**  
**Annual Report and Accounts for Annual General Meeting on**  
**Thursday, 18 May 2006**

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## British Tunnelling Society

### ***Minutes of the Annual General Meeting of the British Tunneling Society which was held in the Institution of Civil Engineers, Gt. George St., London on Thursday 19<sup>th</sup> May 2005.***

The Chairman of the Meeting was Mr. D. Court.

#### James Clark Medal

The James Clark medal was presented to Maurice Gooderham in recognition of his contribution to all aspects of tunneling over many years. Martin Knights briefly summarized the life of James Clark and the history of the Medal before presenting a brief biographical overview of Maurice Gooderham's career. Mr. Knights highlighted his ability to mentor younger engineers along with his introduction of NATM techniques to the UK and his promotion of the use of tunnels for major utility services in London.

Minutes of the AGM held on 20<sup>th</sup> May 2004.

The notice covering the meeting had been circulated prior to the meeting along with the minutes of the 2004 Annual General Meeting. The minutes were approved without change.

The motion for the adoption of the minutes as a true record of the meeting was proposed by Bill Grose, seconded by Jack Knight, and was carried unanimously.

#### Chairman's Report

The Chairman's report had been circulated to members before the AGM.

Commenting on the report, the Chairman noted that the UK tunneling industry had gone into something of a decline due to the current lack of work. Despite that, he felt the BTS had gained strength as well as members over the years citing the number of publications produced recently as evidence of this strength – these included the lining design guide, the BTS/ABI code of practice on ground risk management and the forthcoming report by the Closed Face Working Group. The success of recent publications has aided BTS positively in convincing government and others that tunneling was important and could be accomplished safely.

The BTS website has been updated. Members' attention was drawn to the forthcoming "Tunnel Design and Construction" course to be held in Guilford and the "Underground Construction '05" conference to be staged in London.

At the International Tunneling Association meeting in 2004, the UK had bid unsuccessfully to hold the 2007 ITA General Assembly in Edinburgh. It was now the Committee's intention to bid for the 2009 General Assembly.

The Chairman noted that one result of the recent election was that the Parliamentary Lobby group would have to be reconstituted.

The Chairman thanked the committee for their support during the year along with the authors and presenters of papers for the evening meetings.

The motion for adoption of the Chairman's report was proposed by Anthony Umney and seconded by Mike Francis

#### Accounts for period ending 31<sup>st</sup> December 2004

Copies of the accounts had already been in circulation prior to the meeting. There were no comments on the accounts from the membership.

An adoption of the accounts was proposed by John Scholey, seconded by Bill Redhead, and was carried unanimously.

### Election to BTS Committee

The committee had three vacancies to be filled this year. Six candidates had stood forward for election. Christopher Bambridge, Ian Williams and Michael Francis had been elected to join the committee.

The Chairman thanked all the candidates for coming forward for election.

### Auditors

Grant Thornton was proposed as auditor of the Society's accounts for a further year by Bill Grose, seconded by Mike King, and was carried unanimously.

### Constitution

The Chairman advised the meeting to discuss reasons behind the proposed changes to the Society's constitution. Details of the proposed changes had been circulated prior to the meeting.

**Resolution 1** – To amend the wording of Corporate Membership entitlements.

**Resolution 2** – To define clearly which members of the governing body are Trustees of the Society. The Chairman intimated a further change in the proposed wording of this resolution with the words “a Charity, which is registered” being substituted for “registered Trust” in the fourth paragraph.

The motion to adopt both resolutions changing the constitution was proposed by Roy Slocombe, seconded by Shani Wallis, and was carried unanimously.

### Any Other Business?

As there was no other business, the meeting was closed.

## BRITISH TUNNELLING SOCIETY ANNUAL REPORT 2005

### COMMITTEE:

#### Chairman:

David Court  
Edmund Nuttall

#### Vice Chairman

Bill Grose  
Arup

#### Immediate Past Chairman

Anthony Umney  
OTB Engineering Ltd

#### Elected Members:

Alun Thomas	Mott MacDonald	Retires 2006
Bill Redhead	Kellogg Brown & Root	Retires 2006
Paul Watson	CTRL	Retires 2006
Chris Smith	CRS Consultants	Retires 2006
Mike King	Halcrow	Retires 2007
Bob Ibell	London Bridge Associates	Retires 2007
Paul Hoyland	Balfour Beatty	Retires 2007
Chris Bambridge	MottMcDonald	Retires 2008
Mike Francis	Kellogg Brown & Root	Retires 2008
Ian Williams	BAA	Retires 2008

#### Co-opted Members:

Miles O'Reilly	Consultant	T&TI
Helen Nattress	Sir Robert McAlpine	Lobby Group
Donald Lamont	Health and Safety Executive	Safety
Jack Knight	Charles Haswell & Partners	HAVS
John Scholey	Kellogg Brown & Root	Annual Dinner

#### Members invited to report to the Committee:

Martin Knights	Jacob Babbie	ITA
Rodney Craig	Rodney Craig Associates	Newsletter
Dr Terry Mellors	Mellors & Associates	Insurance
Shani Wallis	Freelance Tunnelling Journalist	International

#### Institutional Representatives:

Peter Jewell	Institution of Civil Engineers
Alan Bozeat	Institute of Materials, Minerals and Mining

The British Tunnelling Society was formed as an unincorporated association by the Constitution adopted 23 September 1971 as amended 21 January 1993 and 16 May 2002. The Society became a registered charity in March 1993. The Charity number is 1017887.

## **LEGAL AND ADMINISTRATIVE INFORMATION**

**The principal and registered office of the charity is:**

One Great George Street  
Westminster  
London SW1P 3AA

### **Names and addresses of other relevant organisations or persons**

<b>Bankers</b>	National Westminster Bank Charing Cross Branch PO Box 113, Cavell House 2a Charing Cross Road London WC2H 0NN	CCLA Investment Management Limited St. Alphage House 2 Fore Street London EC2Y 5AQ
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**Solicitors:** Solicitors are appointed from time to time as the need arises.

**Auditors:** Grant Thornton  
Grant Thornton House  
Melton Street  
Euston Square  
London NW1 2EP

**Investment Advisers:** Investment advisers are appointed from time to time as the need arises.

## CHAIRMANS REPORT 2005

In spite of the downturn in the industry following completion of T5 and Channel Tunnel Rail Link the year has been extremely busy for the Society and especially the committee.

The year started with a very successful annual dinner at which our guest was Norman Haste then of Cross Rail. Sadly Norman departed from Cross Rail fairly soon after the event. and we watch with bated breath as the Bill proceeds through the committee stage in Parliament. Our subcommittee working with Cross rail on various aspects of the future tunnelling programme continues to actively support Cross rail and thereby hopes to support the Industry.

Following the General Election the Society was sad to lose the support of the Lawrie Quinn who lost his seat at the election thereby losing the BTS their Chairman of the Associated Parliamentary Group. Lawrie had been an ardent supporter of the Society and the Parliamentary group and all were extremely sorry to lose him.

Since the end of the summer recess the committee has managed to secure the commitment of MP Nick Raynesford as the new Chairman and we have been attempting with his assistance to secure enough backing from MPs to reconstitute APGUS. As of March 2006 we had secured sufficient commitment for the launch to proceed, the re-launch of the group is scheduled for 18 April.

Although Lawrie is no longer an MP he continues to support the Society and is assisting us and our ITA representatives in our attempt to secure the ITA Congress in Edinburgh in 2009

During the year the Closed Face Working Group Best Practice Guide was published by Thomas Telford and sales have been encouraging. The report is already gaining support throughout the industry as an up to date reference guide to best practice for the use of Closed Face Tunnelling Machines. Similarly the Tunnel Lining Design Guide is continuing to sell well and is further evidence of the success of the Society in furthering its aims.

By the time the AGM is held in May it is expected that the latest best practice guide to HAVS will be complete and published on the BTS Website where it will be freely available for all to download.

Once again the Society ran its successful 5 day tunnelling design and construction course, this course is now recognised as one of the best courses of its kind throughout the world and is always well attended with a good percentage of overseas students.

In October the Society jointly held the Underground conference 2005 at Olympia, whilst numbers were reduced because of the state of the industry all those who attended found the papers and exhibits to be of a high standard. As decided previously the Tunnelling Industry awards were presented at the BTS evening during the conference and proved to be very successful. Congratulations to all entrants and winners for their demonstration of the advanced tunnelling capabilities both here in the UK and throughout the world.

An additional award was made this year that of "Young Engineer of the Year". It was gratifying to have a large number of extremely good entrants and our congratulations go out to David Ellis who was the eventual winner

Following the success of the Tunnelling Awards presentation at the Underground conference it has been decided by the Committee that these awards will be awarded bi-annually to coincide with the Underground conferences and as such the next awards will be in 2007

To coincide with the Conference in October the Society launched the historical database on the website, this database provides in depth information on completed tunnelling projects and has already proved popular.

With regard to the Societies finances 2005 has been a very successful year with the end result being a modest surplus. This position reflects the income generated by our publications and such things as the annual Tunnelling course, an income which allows the Society to keep subscriptions at a reasonable level and allows the committee sufficient working capital to fund the numerous working groups and such additional external groups as the All Party Parliamentary Group for Underground space and our Bid for the ITA Congress in 2009

As I step down after my two years as Chairman of the Society I must thank my Vice Chairman and all of my colleagues on the committee for their support and their efforts throughout the year. Similarly I would like to thank Gavin Bowyer our secretary from ICE who left the ICE at the end of 2005 for his support in the administration of the society during my term of office.

I am very proud to have served as your Chairman and I thank the society as a whole for their support throughout my term I feel that the Society continues to be a vibrant society committed to the furtherance of the use of Underground space and I wish the new Committee and Chairman every success in the forthcoming period.



David Court  
BTS Chairman

16 March 2006

## **ADMINISTRATION OF THE SOCIETY**

The business affairs of the society are administered by a committee consisting of nine elected members, several co-opted and ex officio members together with a representative from the Institution of Civil Engineers and the Institute of Materials, Minerals and Mining.

In accordance with the requirements of the constitution of the Society, a postal ballot was held for the three vacancies and the outcome of the ballot will be announced at the AGM on 18 May 2006

The British Tunnelling Society is one of the largest and most active of the Associated Societies of the Institution of Civil Engineers. The Committee deals with its substantial workload by allocating it to subcommittees as follows:

### **1. PAPERS AND MEETINGS**

Paul Hoyland (Chair), Michael Francis, Bill Redhead, Shani Wallis, Alan Bozeat

This year a series of interesting papers have been presented on a variety of UK and international tunnelling topics highlighting the latest developments in tunnelling and the issues that are affecting our industry.

Offers of suitable presentations are always welcome and the society is grateful for the support of the speakers, especially the international speakers who travel to the UK to give their presentations.

#### **Papers presented during 2005 were:**

<b>Date</b>	<b>Title</b>	<b>Speakers</b>
20 Jan 05	<b>Heathrow Terminal 5 Tunnel Works</b>	Ian Williamson, BAA
17 Feb 05	Mechanized Mine Construction in Iran	David JF Smith Principal Mining Consultant IRASCO s.r.l.
17 Mar 05	<b>Thames Tideway</b>	Andy Miller, Faber Maunsell John Greenwood, Thames Water Roger Margerison, AMEC
14 April 05	<b>Harding Prize Competition</b>	Finalists: Damian McGirr Caroline Beirne David Ellis
19 May 05	<b>Stabilisation of Collapsed Shaft at Stroud Tunnel</b>	Thomas Grieg, Halcrow Charles McAnally, Keller Philip Wall, Network Rail
16 June 05	<b>Fire Engineering for Highway Tunnels</b>	Robin Hall, Mott MacDonald
22 Sept 05	Egnatia Motorway Tunnels: Northern Greece	Guy Hindley, KBR Russell Game, KBR George Aggastalis, Egnatia Odos Nikos Rachaniotis, Egnatia Odos
26 Oct 05	<b>The SMART Project –a dual use tunnel.</b>	Gus Klados, SMART JV Arthur Darby, Mott MacDonald
18 Nov 05	<b>Victorian Rail Tunnels</b>	Jack Knight, Scott Wilson
8 Dec 05	<b>Queensway Tunnel Emergency Escapes</b>	Peter Arch, Mersey Tunnels Frank Rogers, Amco-Donelon Tony Rock, Mott MacDonald

The October meeting was held at the Olympia exhibition centre as part of Underground Construction 2005. All other meetings were held at One Great George Street.

## **2. TRAINING AND EDUCATION**

Bob Ibell (Chair 2005-2006) Paul Watson, Chris Bambridge

### **BTS Course**

The BTS course on Tunnel Design and Construction, which incorporates the Safety course, was held at the University of Surrey during week commencing 27<sup>th</sup> June 2006. The course was again well supported by expert speakers from industry and attended by 46 delegates from 6 countries.

This year's course will take place during week commencing 26<sup>th</sup> June 2006 and will again be held at the University of Surrey.

### **NVQ's**

BTS is represented on the recently revamped and re-launched Occupational Working Group for the Development of Tunnelling NVQ's. This group is charged with overseeing and guiding the on-going development of the tunnelling NVQ's.

The Level 2 qualification has been around for some years although it has been recently revised in accordance with the latest approved NVQ format. The Level 1 qualification, principally aimed at Back up men, has recently been approved as a result of proposals made by Assessors in the field with the result that we now have qualifications to cover all men normally working underground.

In addition to the above we are now developing accredited training modules to assist in NVQ achievement and to enable on-site training to be eligible for credit from CITB.

Finally we expect to have funded assessors available shortly to assist with the qualification of the tunnelling workforce.

### **Registration**

The concept of Registration has moved forward slowly; however following the view of the Management Committee (being that they were in favour of some form of recognition of skilled and experienced members) a detailed proposal is being developed for consideration by the Management Committee prior to sounding out membership.

## **3. AWARDS**

Chris Smith (Chairman) Mike King, Ian Williams

### **James Clark Medal**

In 2005 the James Clark Medal was awarded to Maurice Gooderham for a contemporary achievement in tunnelling. Maurice is a founding member of the British Tunnelling Society, during the presentation particular reference was made to his contribution to the promotion of the use of tunnels for the laying of high voltage electricity supply cables.

### **Harding Prize Competition**

Ten entries were received for the 2005 Harding Prize Competition, and 3 of these were selected to give presentations at the April meeting. These were:

Caroline Berne – Contractor Selection for the Mersey Queensway Road Tunnel Additional Emergency Escapes Project.

David Ellis – Settlement Control at the Heathrow Airside Road Tunnel.

Damian McGirr – Settlement Mitigation on Channel Tunnel Rail Link contract 250.

Damian McGirr was voted the winning entry and his paper was published in the May and June editions of Tunnels and Tunnelling International (2 part paper).

#### **4. FINANCE AND MEMBERSHIP**

Bill Grose (Chair), David Court

##### **Finance**

To meet the financial demands on the society's funds, including inflation, the Committee decided to increase the subscriptions. The rises are in the region of 5%.

The rates for 2006 are as follows:

	<i>UK</i>	<b>Overseas</b>
	£	£
Corporate Member Small (Up to 50 Employees)	325.00	390.00
Corporate Member Medium (50 to 500 Employees)	520.00	690.00
Corporate Member Large (Over 500 Employees)	840.00	1170.00
Individual	65.00	100.00
Retired	26.00	26.00
Student	22.00	31.50

The new committee will seek to set a budget for the forthcoming year that returns a modest surplus.

**Membership:** The details of the current membership as at end 2005 is set out below:

		<u>2005</u>	
<b>UK</b>	Corporate Members	23	Decrease of 5
	Individual Members	531	Increase of 13
	Student and Retired	47	Decrease of 1
	UK Total	<u>601</u>	Increase of 7
<b>Overseas</b>	Corporate Members	1	No change
	Individual Members	148	Decrease of 6
	Student and Retired	11	Increase of 1
	Overseas Total	<u>160</u>	Decrease of 5

The histogram attached shows the membership figures for the last four years. There are signs that the decrease in membership figures seen over the last few years has stopped, with a slight upturn in figures for 2005. It is hoped that this trend continues and strengthens.

Please refer to Appendix 1 for further details of membership figures.

#### **5. HEALTH & SAFETY and STANDARDS**

**CEN Standards** – the UK proposed an amendment to EN 12336 requiring the provision of fixed fire extinguishing systems on all shield machines to a similar standard to EN 815 A1, was accepted as a work item by CEN TC151.

A further proposed amendment to EN 12336 relating to the prevention of inadvertent operation of controls on small open face machines was referred to CEN/TC151/WG4. For technical discussion.

A German proposal to amend EN 12110 "Airlocks" was declined by the UK unless the UK got an opportunity to propose further changes. It was agreed to refer the matter to CEN/TC151/WG4. For technical discussion

**Liaison with HSE** – this continued throughout the year. One positive outcome was the agreement by HSE to consider industry-specific exposure limits for nitrogen monoxide should the industry wish to submit such a proposal.

**Compressed Air Working Group** – CAWG met twice during the year however there was virtually no compressed air work undertaken during the year.

**HAVS** – the HAVS sub group met a number of times during the year and completed the text of the document “THE MANAGEMENT OF HAND-ARM VIBRATION IN TUNNELLING -a Guide to Good Practice”. The document will go out for a limited round of consultation early in 2006.

#### **6. TECHNICAL**

Mike King (Chairman) Paul Hoyland, Mike Francis

A review of the “Specification for Tunnelling” has commenced with a programme to provide an updated version before the end of 2006. The committee are presently reviewing the costs of republication compared with the provision of revisions via the BTS web-site

#### **7. TUNNELLING LOBBY**

Helen Natras (Chairman), Alan Bozeat, David Court, Bill Grose, Anthony Umney

Since the last General Election in May 2005, the Lobby Group has not held any meetings for Parliamentarians. We have been trying to re-constitute the All Party Parliamentary Group for Underground Space. Nick Raynsford MP has agreed to lead the initiative and there is sufficient Parliamentary support to re-launch the group with a reception in Portcullis House in April. Whilst the 2005-2006 seasons have not been as active as we would have wished, the future seasons will see site visits and presentations recommencing.

We have attended meetings of the Associate Parliamentary Engineering Group to keep up our profile.

#### **8. WEBSITE**

Alun Thomas

The BTS website is steadily growing as an extensive source of information for the industry. The database of UK tunnels was launched in October 2005 enabling an online search for details of major recent road, rail and water tunnels. Reports from working groups are posted on their respective pages and in the future certain BTS publications will be available for downloading from the website. As before, members will be able to order tickets for the Annual Dinner online as well as finding relevant information on other events such as the Tunnelling Course. Any comments from members on how to improve the website are most welcome - please email us at [bts@britishtunnelling.org](mailto:bts@britishtunnelling.org)

#### **9. TUNNELS AND TUNNELLING INTERNATIONAL EDITORIAL ADVISORY BOARD**

Myles O'Reilly (Chairman), Keith Bowers, Bill Grose, Paul Hoyland, Tom King, Richard Lewis, Barry New, Andrew Smith, Ivor Thomas

All members of the Society receive Tunnels and Tunnelling International monthly. The magazine contains up to the minute news of the tunnelling industry worldwide and a wide range of technical articles. It also includes reports of the BTS meetings at the Institution of Civil Engineers, One Great George Street in London. The Society's notices of meetings and events are enclosed with the journal. The Advisory Board met on three occasions during 2005 when the editorial and technical content of Tunnels and Tunnelling International was reviewed with the journal's Editorial Staff and suggestions on topics and themes for inclusion in forthcoming issues were discussed.

#### **10. INTERNATIONAL TUNNELLING ASSOCIATION (ITA)**

Donald Lamont BTS Representative, Martin Knights, Vice President of ITA

The 2005 Annual Congress was held in Istanbul and the associated conference included papers from UK representatives on UK and overseas projects. In 2006, it is in Seoul and in 2007 in Prague.

The ITA has a number of Working Groups, which meet annually with interim correspondence and compile working practices on planning of underground works through to Shotcreting and Mechanised Tunnelling. Information on publications can be accessed via the ITA web site [www.ita-aites.org](http://www.ita-aites.org). A CD containing a set of ITA publications over the past 30 years is available from the BTS Secretary. The BTS has representatives on many of the Working Groups, the Animateur of one of which is from the UK with a second UK Animateur having completed his term of office in 2005.

The ITA is there for you to use for marketing and business development or technical and education purposes. It's up to you. ITA provides the forum for you to choose how it suits your needs.

It remains the intention of the BTS to try to bring the 2009 Congress to the UK (Edinburgh).

## **11. ANNUAL DINNER**

John Scholey (Chair),

On 6<sup>th</sup> May 2005, a total of 387 members, partners and guests gathered for the annual dinner, which was again held at The Brewery, in the City of London. Following the dinner, there was a short address from Chairman David Court followed by our guest speaker, former Barlinnie Prison governor Robbie Glen, who had the diners in fits of laughter.

The evening concluded to the music of Get It, the 'band with a volume control'. A goodly number took to the dance floor, and only one complaint of musical noise interfering with drinking was received.

## **12. TUNNELLING INDUSTRY AWARDS 2005**

Bill Redhead (Chair), David Court, Chris Bambridge

This years Tunnelling Industry Awards attracted a total of 15 entries spread over the six categories. The sponsors were John Murphy & Sons, Edmund Nuttall, Vinci Construction Grand Projects and Skanska.

The awards presentation took place at the Olympia Exhibition Centre in Kensington, London, during an evening reception on Wednesday 26 October as part of Underground Construction 2005. Each winner received an inscribed trophy together with a certificate.

The Judging Panel agreed that awards should be made in each category as follows: -

### **The BTS UK Project of the Year**

Winner: Morgan=Vinci JV                      Airside Road Tunnel, Heathrow Airport

### **The T&TI International Project of the Year**

Winner: Mott MacDonald Ltd                      Delhi Metro Phase 1, Contract MC1B

### **Achievement through Innovation – Sponsored by J Murphy and Sons Ltd**

Winner: Byzak Ltd                                      Gas Pipeline Crossing of River Dee, Arberdeenshire

### **Excellence in Tunnel Design - Sponsored by Vinci Construction Grand's Projects'**

Winner: Mott MacDonald                      SMART Project, Kuala Lumpur, Malaysia

### **The Machinery/Materials Award - Sponsored by Skanska**

Winner: Bosworth Plastics Ltd                      Big Walnut Outfall Augmentation Sewer II

### **The Young Engineer of the Year - Sponsored by Edmund Nuttall Ltd**

Winner: David Ellis

Following the success of the Awards at the Underground conference the Committee has decided that the Awards will only be awarded bi-annually to coincide with the Underground conferences and therefore the next Tunnelling Awards will be in 2007

### **13. NEWSLETTER**

The Society publishes on the website ([www.britishtunnelling.org](http://www.britishtunnelling.org)) every two months a Newsletter updating the membership of the Societies activities. The Secretary sends copies of the Newsletter to members who are on the database. If you would like a copy of the Newsletter regularly, please contact the Secretary Janice Leung at the BTS.

All comments and news and gossip are always welcome to [rodneycraig@compuserve.com](mailto:rodneycraig@compuserve.com)

### **14. DATABASE**

The Society launched on the website the first stage of its UK Tunnels Database at Underground Construction 2005 on 26th October 2005. The database currently covers some 200 UK tunnels constructed over the last 30 to 50 years across the whole spectrum of the industry from road, rail and Metro tunnels, to water, sewer and cable tunnels. Over the coming months additional projects will be added regularly to the database.

If you have any corrections to the data on the sheets, which are based upon published articles, please send these to the Secretary Janice Leung at the BTS.

### **15. RELATIONSHIP WITH ICE AND OTHER BODIES**

As an Associated Society of the Institution of Civil Engineers, the Society continues actively to pursue this relationship with its joint meetings with other associated societies and its representation on other committees.

The use of the ICE facilities is invaluable to the Society, and is regularly used by the various subcommittee meetings and for general meetings with industry representatives.

The Society's role is to advance knowledge in and encourage the art and science of tunneling by fostering understanding, experience, interest and research therein, which is not something that can exist in isolation and there are many important links with other engineering disciplines and sciences. Although totally separate from other organizations', the Society seeks to co-operate in areas of common ground with other bodies.

### **16. AUDITORS**

Grant Thornton, having offered themselves for reappointment as auditors shall, subject to the approval of the membership, be reappointed for the next financial year

The Annual Report on pages 3-13 was approved by the Committee and was signed on its behalf by:



**David Court – Chairman of the Society**