



THE BRITISH TUNNELLING SOCIETY

**Annual Report and Accounts for
the Year Ended 31st December 2009**

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BRITISH TUNNELLING SOCIETY ANNUAL REPORT 2009

COMMITTEE:

Chairman:

Paul Hoyland
Balfour Beatty

Vice Chairman

Robert Ibell
London Bridge Associates

Immediate Past Chairman

Bill Grose
Arup

Elected Members:

Chris Dulake	Crossrail Ltd	Retires 2010
Nathan Wilmot	Arup	Retires 2010
Lawrence Halls	Tam International Consultants Ltd	Retires 2010
Andrew Hindmarch	Mott MacDonald	Retires 2011
Ken Spiby	London Bridge Associates	Retires 2011
Steve Parker	Bechtel Ltd	Retires 2011
Matt Sykes	Arup	Retires 2011
Steve Woodrow	Aecom	Retires 2012
Rodger Bridge	Balfour Beatty	Retires 2012

Co-opted Members:

Myles O'Reilly	Consultant	T&TI
Helen Natrass	Sir Robert McAlpine	Lobby Group
Donald Lamont	Health and Safety Executive	Health and Safety
John Scholey	Jacobs	Annual Dinner
David Court	BAM Nuttall	Conferences
Chris Bambridge	Mott MacDonald	Tunnelling Course
Michael Francis	Parsons Brinkerhoff	Technical
Kate Cooksey	Morgan Est	Young Persons Committee
Damian McGirr	Donaldson Associates	Monitoring Guide
Colin Eddie	Morgan Est	Tunnelling MSc

Members invited to report to the Committee:

Martin Knights	Jacob Babbie	ITA
Shani Wallis	Freelance Tunnelling Journalist	International
Andy Flowerday	Pipejacking Association	Pipe Jacking Association

Institutional Representatives:

Bill Grose	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

Bankers	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.

Examiners: Grant Thornton UK LLP
Grant Thornton House
Melton Street
Euston Square
London NW1 2EP

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

CHAIRMAN'S REPORT 2009

The last year has again been very busy for the Society and its Committee.

The 2009 AGM saw the award of the James Clarke Medal to Donald Lamont for his outstanding contribution and tireless effort to the UK Tunnelling Safety Matters, BTS and ITA.

Our industry remains buoyant, having seen the completion of the tunnelling works at A3 Hindhead Tunnel, Belfast Sewers Project, West Ham and Croydon Cable Tunnels. Tunnelling works are underway at the 2nd Tyne tunnel which is a combination of two short sections of SCL tunnel, a cut and cover box and an immersed tube tunnel.

A number a number of new projects have also started including the Brighton Waste Water project, the first phase of the Thames Tideway sewage storage and transfer tunnel, Tottenham Court Road Underground Station Improvements and the Preston Waste water scheme.

Tendering is also ongoing for two further London underground improvement schemes at Victoria and Bond Street which involve complex tunnelling to provide additional escalator and interchange capacity.

A number of tunnels were being designed or constructed for water, sewerage and cable utility services including extensions to Thames Water's London Water Ring Main, a number of cable tunnels for the national electricity grid and the national gas grid.

Design contracts have also been let for all the major tunneling elements of the £20bn Crossrail project and tendering for the main tunnelling contracts is due to start early in 2010.

Major tunnel refurbishment works are underway at Bell Common on the M25 and Hatfield Tunnel on the A1. A new contract to refurbish the second bore of the Blackwall Tunnel was let late in 2009.

Unfortunately a major collapse has occurred in the headrace tunnel at Glendoe which has closed the power station. A contract for the recovery of the tunnel has been let.

These are exciting times for the British tunnelling industry, with the likelihood of £20bn of work planned over the next 10 years including Crossrail, Thames Tideway, London Underground Station Improvements, and smaller but still significant transport, water and cable tunnels. This amount of work will undoubtedly stretch the tunnelling capability within the UK, however many of the joint ventures bidding for the major projects include European partners and with this input the Society is confident that the works can be effectively delivered.

The BTS together with TunnelSkills and the Crossrail Academy are working together to ensure there are sufficient suitably qualified and experienced engineers and a suitably skilled and trained workforce. This initiative is also being supported by the Young Members Committee who are working to encourage young people to join the tunnelling profession.

The Young Members Committee goes from strength to strength and now has 45 members. As well as providing considerable support to the main committee they have launched a History of Tunnelling Lecture Series aimed specifically at the younger members of the tunnelling industry and are aiming to launch a website Spring 2010.

The UK membership has increased slightly to 573, where there has been a trend to increased corporate membership and a slight reduction in individual membership. There has been a larger increase in overseas membership to 174. It is envisaged that this trend of increasing membership will be maintained as more tunnelling work is undertaken in the UK. Our finances remain in good order, with a healthy operating balance which has been maintained over the last year reflecting the success of income from Conferences and the BTS Course.

The mainstay of the Society's activities is the varied programme of discussions and presentations held at the Institution each month. These cover projects of interest, latest developments in tunnelling, and other issues for our industry. We strive to build upon that programme each year, to fulfill our learned society function of knowledge-sharing. Attendance at the meetings is extremely high, with typical numbers ranging from 100 to 250 members and guests.

The standard of the six papers entered for the 2009 Harding Prize was exceptional. The winner was Michele Mangione with the paper on Segmental Opening Sets at Kings Cross St. Pancras.

The Tunnel Design and Construction Course held at Brunel University proved to be very successful. The course is once again being planned for 2010, but at Warwick University which will provide improved facilities. We are also working with Warwick to develop a full time MSc tunnelling course.

The second annual BTS Health and Safety Course was held at the ICE and following feedback from the 2008 course, the programme was expanded significantly in scope and extended to two days. The course will be run again in 2010.

Our engagement with ITA and ICE continues although ongoing issues relating to the cost of room hire for ICE Associated Societies still need to be resolved for 2010.

Our Health & Safety and Standards sub-committee continues to be busy, with revisions to CEN standards, work on a review of BS6164, and a watching brief on compressed air working.

The Technical Committee has been working on three main threads of work during 2009 focusing on an update of the BTS Specification for Tunnelling, a new Guide to Instrumentation and Monitoring and a summary of past practice in the use of timbering in underground construction. It is anticipated that all three publications will go to press in 2010.

Helen Natrass's Tunnelling Lobby Group heard a talk on Carbon Capture after their AGM. Groups of Parliamentarians have also been on site visits to the East London Line and Brunel's Thames Tunnel and the underground/underwater Crossrail Canary Wharf Station.

The BTS website has undergone significant improvement which has resulted in an increase in the number of visits to the site.

Tunnels and Tunnelling (T&T) continues to be delivered to all members monthly and is also now available on-line as part of the BTS subscription fee. There has been a change of editor during the year and we would like to thank the departing editor Tris Thomas for his contribution to the industry over the past years and welcome Jon Young to the post. The magazine continues to deliver a high standard of reporting and editorial and is watched over by our Advisory Board which meets with T&T four times a year.

The Society continues to publish the BTS Newsletter providing information on upcoming meetings and conferences, health and safety updates, courses and news on members.

Our Sustainability sub-committee published the BTS Sustainability Policy during 2009.

Our Annual Dinner 2009 was held once again at the popular Brewery. The after-dinner speaker was the well known Britt Ekland.

In closing, I would once again like to thank all the members of the committee for their continued support, commitment and hard work. The fact that this Society is so successful, well-respected, well-attended, and sociable is due in no small measure to the tremendous enthusiasm of the committee, who give their time so generously, and the support of their employers.

In particular I would like to thank Bob Ibell for his support as Vice Chairman over the past 2 years and wish him well as he prepares to take over the leadership of the Society for his term as Chairman starting in May 2010.



Paul Hoyland
BTS Chairman

Date of Approval: 28 October 2010

TRUSTEES REPORT

The Trustees present their report together with the financial statements of the British Tunnelling Society (the 'Society') for the year ended 31 December 2009. The financial statements have been prepared on the accounting policies set out on page 19 of the financial statements and comply with the current statutory requirements, applicable law and the Statement of Recommended Practice "Accounting and Reporting by Charities" issued in April 2005.

Organisational structure

The Trustees of the British Tunnelling Society are the members of its Committee.

The Committee shall consist of elected members, nominated members, co-opted members and ex-officio members.

Nine members of the Committee shall be elected by postal ballot of the members of the Society. The result of a postal ballot shall be announced at the Annual General Meeting. Members so elected to the Committee shall serve for a term of three years and shall then retire from the Committee unless elected Chairman or Vice-Chairman. A retiring member shall be ineligible for re-election to membership of the Committee for a period of one year after retirement.

Two members, one nominated by each of the Institutions of Civil Engineers and Mining and Metallurgy, shall serve for a three-year term of office and then retire from the Committee unless elected Chairman or Vice-Chairman.

The Committee shall elect from amongst its members a Chairman who shall hold office for two years immediately following the Annual General Meeting of the previous Chairman's term of office. Such election shall be held at the last Committee meeting of the previous Chairman's term of office. On expiration of a Chairman's term of office, he may serve on the Committee in an ex officio capacity for a period of two years as immediate past Chairman.

The Committee shall elect from amongst its members a Vice-Chairman who shall hold office for two years immediately following the Annual General Meeting of the previous Vice-Chairman's term of office. Such election shall be held at the last meeting of the Committee of the previous Vice-Chairman's term of office.

The Committee may co-opt a member of the Society to the Committee at any time and for whatever purpose the Committee so decides. A co-opted member to the Committee shall hold office until the following Annual General Meeting.

Any casual vacancy, whether in the offices of Chairman or Vice-Chairman or amongst the elected or nominated members of the Committee, may be filled by the Committee, with the approval of the appropriate Institution in the case of a nominated member.

A person so appointed to fill a casual vacancy shall hold office until the following Annual General Meeting and shall then retire. The casual vacancy shall then be filled either by an election by postal ballot or by a nominated person from an Institution as appropriate.

A term of office in a co-opted capacity or as the result of an appointment to fill a casual vacancy shall not be counted for purposes of eligibility for subsequent re-election to the Committee.

Any individual member of the Society or nominated representative of a corporate subscriber of the Society or a nominated individual from an Institution shall be eligible, except as otherwise provided, for election or appointment or co-option to the Committee.

Objects and policies & public benefit

The Society's objective is summarised as the advancement of the education of the public in and the promotion of the art and science of tunnelling, including the creation and use of underground space by fostering learning, understanding, experience, interest and research therein.

In furtherance of this the Society:-

- Provides a forum for the discussion of the problems and techniques of tunnelling by holding monthly meetings which are free and open to all interested parties in addition to Society members
- Encourages tunnelling research and development so as to improve health and safety of the workforce, reducing both risk to the public and the cost of provision of infrastructure
- Provides training courses on a non profit-making basis to train young tunnellers in tunnelling best practice

- Supports a young members section who embrace the objectives of the society but face towards the graduate, the school leaver and students still at school
- Produces and arranges for the publication of papers and reports to disseminate information on tunnelling and to provide points of reference
- Co-operates with other associations in holding meetings and conferences locally, nationally and internationally
- Maintains liaison with similar associations and individuals in other countries and co-operates and participates in the formation, continuance and furtherance of an international society devoted to the interests of tunnelling and of other international, national or local associations whose objects are allied to those of the Society
- Offers specialist assistance and advice to H.M. Government, statutory authorities, boards, institutions and similar bodies and to make representations to such bodies
- To do all such other things as are incidental or conducive to the attainment of any or all of the above aims.

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, the Institute of Materials, Minerals and Mining and the Pipejacking Association.

Vacancies arise in the Committee, due to retirement of elected members and this year two were duly elected to serve from the 2009 AGM for 3 years. They are:

Steve Woodrow
Roger Bridge

In addition the Committee requested Colin Eddie and Damian McGirr to continue as co-opted members of the Committee, which they agreed to do.

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. 1. PAPERS AND MEETINGS

Steve Parker (Chair), Nathan Wilmot, Lawrence Halls, Shani Wallis, Alan Bozeat.

This year a series of interesting papers on a variety of UK and international tunnelling topics have been presented, 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 in 2009 were:-

Date	Title and Description	Speakers	Company
15-Jan-09	Canada Line Transit Tunnels, Vancouver, British Columbia Ground stability when excavating in Earth Pressure Balance mode; how changes to the conditioning of the excavated soil cope with varying challenges presented by a highly permeable layer.	Prof Dan Eisenstein Jeff Hewitt Marco Moccichino Andrea Ciamei	Tunnelling Consultant Canada Line Rapid Transit Inc. SELI SELI
19-Feb-09	Joint Meeting with MinSouth Briars Lane mine stabilisation. New approaches to chalk mine treatment.		

Date	Title and Description	Speakers	Company
	The scheme has used a structured approach to the specification, implementation and validation of chalk mine treatment methodologies and risk management. The presentation paper summarised the results of the works, detailed the methodologies employed and provided a benchmark for future chalk mine treatment schemes.	Chris Milne Andrew O'Donovan John Rigby-Jones	Consultant to Hyder BAM Ritchies RJM Ground Solutions Limited
19-Mar-09	<p>Disputes in Construction & Tunnelling Contracts: causes</p> <p>Using case histories and their own experience, the speakers considered the common causes of contractual disagreements on construction projects in general and tunnelling schemes in particular. The talk reviewed how these issues may be addressed under the contract and through other means, and what lessons can be learnt to prevent or reduce them on future projects.</p>	Dr. Nigel Legge Garry Crossley Caroline Pope	Navigant Consulting Navigant Consulting Berwin Leighton Paisner
16-Apr-09	<p>Harding Prize Competition 2009</p> <p>This prize was instituted in memory of Sir Harold Harding, one of the founders of the British Tunnelling Society. The 3 presenters were:-</p> <p>1 – A3 Hindhead Road Tunnels</p> <p>2 – Segmental Opening Sets at King's Cross St. Pancras</p> <p>3 – Hampton Pump Out Shaft; Problem Solving with Appropriate Construction Methods</p> <p><i>On concluding the presentations the winner was announced by the Chairman as Michele Mangione</i></p>	Bethan Haig Michele Mangione David Naylor	Mott MacDonald ARUP Mott MacDonald
21-May-09	<p>AGM + A3 Hindhead Tunnel</p> <p>Design and Construction of the Primary Lining at A3 Hindhead</p>	Roger Bridge Paul Arnold Simon Stephenson	Balfour Beatty Highways Agency Mott MacDonald
18-Jun-09	<p>Lessons Learnt from the Pinheiros Station Accident in Sao Paulo, Brazil</p> <p>This presentation focused on the Pinheiros Station accident occurred on 12 January 2007, during the construction of Line 4 of the Sao Paulo Metro, based on the official investigation carried out by the Institute for Technological Research of Sao Paulo. Main aspects of contracting, design, construction and management were addressed, as well risk factors and causes of the accident, aiming to draw lessons for future projects of tunnelling in urban areas.</p>	Prof. A.P. Assis Dr. J.M. Barros	Sao Paulo Institute for Technological Research Sao Paulo Institute for Technological Research
17-Sep-09	Seismic Response of Segmental Tunnel Linings		

Date	Title and Description	Speakers	Company
	The presentation discussed the results of analyses to predict radial and circumferential joint behaviour during seismic ovaling and wave propagation and provides guidelines for the design of precast systems in zones of high seismicity.	Gary Kramer	Hatch Mott MacDonald

15-Oct-09	<p>Reconstruction of the Channel Tunnel after the fire of September 2008</p> <p>Christian Maquaire explained how Eurotunnel successfully rebuilt the fire-damaged section of the Channel Tunnel in less than four months. He described in detail each stage in the works – from initial diagnostics to the final techniques to restore commercial services – and highlight the major innovations developed by Eurotunnel during this project</p>	Christian Maquaire	Industrial Director, Eurotunnel
19-Nov-09	<p>Joint meeting with BGA The Belfast Sewers Project – Stormwater Management Works Contract</p> <p>The Belfast Sewers Project is designed to alleviate the risk of flooding in central Belfast and improve the water quality of the River Lagan and its tributaries by significantly reducing the pollutant loadings from a number of combined sewer overflows. The scheme comprising 9.6km of tunnels which vary in diameter from 1.5m to 4 metres at depths ranging from 10 metres to 30 metres was described. The complex and highly variable geology of Belfast was explained, together with the significant challenges it presented throughout the construction phase.</p>	Dr Alan Skates Mr W Gowdy Mr Paul Ronicle	Project Manager, Atkins Project Sponsor, Northern Ireland Water Project Manager, Morgan=Est/Farrans
10-Dec-09	<p>Debate by BTS Young Members Group – Tunnelling into the Future</p> <p><i>This house believes that the UK tunnelling industry has the sufficient range of engineering expertise and resources to meet the challenges of future projects.</i></p> <p>Abstract:- The future of our tunnelling industry is uncertain. The discontinuous nature of landmark tunnelling projects has left a generation gap within the industry in both skills & experience. With world class infrastructure projects looming, the ability & reputation of the UK to resource these effectively is fast becoming an issue of national, if not international importance.</p> <p>Each team comprised a speaker from both ends of the age spectrum to ensure a vigorous & provocative debate. Audience participation was also warmly welcomed.</p> <p>The motion was carried by a small majority.</p>	Kate Cooksey - Chair BTS YMG For:- Harnaik Mann Neville Harrison Against:- Jon Banyai John Edwards	Arup Consultant Mott MacDonald Morgan Est

The February meeting was held jointly with MinSouth. The November meeting was jointly held with the BGA.

All meetings were held at One Great George Street.

2010 should see another good array of papers including:-

- Design & Construction Deep Shafts
- Construction of Road Tunnels in Iceland
- Gotthard Base Tunnel Project
- Harding Lecture – Development and Use of Closed Face Tunnelling Machines
- West Ham Flood Alleviation Scheme
- Atlantic Sea Tunnels in Norway
- Tunnelling in Seattle - Past, Present and Future
- Sir Alan Muir Wood Symposium
- Pittsburgh Northshore Connector
- Baggage Tunnel Design and Construction at Heathrow Airport

2. TRAINING, EDUCATION and YOUNG PERSON'S COMMITTEE

Ken Spiby (Chair); Andrew Hindmarch; Roger Bridge; Bob Ibell

YMC Reps: Kate Cooksey; Simon Hansen

BTS Tunnel Design and Construction Course (AH / KC)

The 2009 Tunnel Design and Construction course was held at Brunel University from 24th to 29th June 2009, was well attended and very well received. The course programme followed previous years very closely.

The 2010 course was held at Warwick University from July 5th to 9th, having been moved from Brunel to Warwick to tie in with the proposed MSc course. The course programme is being finalised and for the first time will include a session on Sustainability.

BTS Health & Safety Course (RI / RB)

The second annual BTS Health and Safety Course was held at the ICE on 23rd and 24th Nov. Following feedback from the 2008 course, the programme was expanded significantly in scope and extended to two days. The course was attended by 59 people representing a wide mix of Clients, Designers, and Contractors.

Feedback was received from 39 delegates (66%) with the vast majority very positive confirming the perception at the time that the course was once again a great success. A small number of improvement areas for the future are identified, chiefly in reducing repetition and improving time management. Debates were used to conclude each of the days, and these were very well received.

It is proposed that a similar format is used for the 2010 course. No dates have been set yet, and a larger venue may be appropriate.

TunnelSkills (RI)

The membership of TunnelSkills has expanded significantly and now includes the majority of UK tunnel contractors and labour supply companies.

The Tunnelling Safety Passport has been developed as a basic safety qualification, designed to be taken before anyone is permitted underground. A working group developed both the training course content, and the test material, before an industry launch in September 2009. Training courses have been held to qualify trainers, and the first courses have taken place, with the first Safety Passports awarded.

Arrangements have been made for the running of the Safety Passport Database and the issue of Passports, and the Safety Passport Website is under production. Regrettably there have been certain IT problems with the training packs which have delayed the issuing of these and the final training session for accredited trainers.

Work has progressed well on developing the training modules for level 2 tunnelling NVQs. Extensive discussions have been held on these with the Tunnelling Academy, and the Academy is now financing the preparation of the training manuals.

Following behind this is the development of the Level 3 Tunnelling Supervisor NVQ, and a module structure has been proposed for acceptance. Work is now progressing on the detailing of the training modules for these.

Qualifications for Tunnelling Professionals (KS / RI / PH / RB / MS / SW)

A series of meetings has been held with members of the Crossrail team regarding how the Tunnelling Academy can be used to augment the training of professionals, this following on from discussions regarding the training and qualification firstly of the workforce, and secondly of Supervisors.

The BTS is not in favour of the requirement for a formal qualification for professionals, but sees great benefit in the Tunnelling Academy offering a number of specific training courses, which can be used alongside experience gained on the job.

An outline structure has been proposed including the two existing BTS courses (Design & Construction and Health & Safety), and additional courses on: Tunnel Survey; Settlement Monitoring & Mitigation; SCL tunnelling; TBM tunnelling; Shaft sinking; Hand mining; and Hard-rock tunnelling. Brief resumes only of these courses have been prepared to date.

British Tunnelling Society Young Members Committee (BTSYM)

The past year has seen further development of the BTS Young Members Committee and its involvement with tunnelling related activities. We held our first AGM on 29th October 2009 at the ICE where we had 20 new applications to join the committee. This has taken the committee up to 45 members split between 5 sub-groups, including a new Website Group.

We have spent the last year getting involved with a number of different activities and it has been exciting to see the committee develop. One of our key aims for this year was to develop a BTS Young Members Website to be launched in Spring 2010. This has been developed to help attract young people into the industry by showing them what the industry really is. It uses blogs and video diaries to help relate to young people.

It has also been a busy year for the Education Group who launched a History of Tunnelling Lecture Series starting with Brunel's Thames Tunnel on the 29th October presented by Robert Hulse from the Brunel Museum. Our Second History of Tunnelling Lecture was 'Sir Joseph Bazalgette and the Curse of the Stinky Thames' presented by Vickie Bazalgette (Stemnet) and John Greenwood (Thames Water). We are also looking at a number of different lectures aimed specifically at the younger members of the tunnelling industry.

In November we were invited once again to the Thames Tunnel Banquet at the Brunel Museum which was a great opportunity for the young members to support the Brunel Museum and the work taking place to re-open Brunel's original shaft into the Rotherhithe Tunnel.

Over the past year we have also established a BTSYM mailing list which allows us to notify young members of the BTSYM specific events. This has worked well over the past year in parallel with our Facebook networking page.

During 2009/10 our committee members have also supported a number of BTS events and activities such as the BTS Dinner, the BTS Design and Construction Course, the BTS Underground Health and Safety Course, APGUS AGM and the BTS Sustainability Committee.

In December 2009 we were invited to host one of the Main BTS Lectures. We used this opportunity to host a debate entitled 'Tunnelling into the Future'. The motion proposed was 'This House believes that the UK tunnelling industry has the sufficient range of engineering expertise and resources to meet the challenges of future projects.' The motion sparked some interesting debate from the speakers Harnaik Mann and Neville Harrison proposing the motion and Jon Banyai and John Edwards opposing the motion, as well as comments from the floor. It was great opportunity for the younger members of the industry to discuss the issues of the future of the tunnelling profession with more senior members of the industry.

3. AWARDS

Lawrence Halls (Chair), Chris Dulake, Steve Parker

James Clarke Medal

The James Clarke Medal was awarded to Donald Lamont in 2009 for his outstanding contribution and tireless effort to the UK Tunnelling Safety Matters, BTS and ITA.

Donald has many years experience in the construction industry. He began his career at Babbie Shaw & Morton before moving to the HSE in 1984. In 1987, he progressed to the position of HSE's Tunnelling and Ground Engineering Specialist. He is an inspector for the Channel Tunnel Safety Authority, dealing with civil engineering infrastructure and ventilation/smoke control. Donald chairs the British Standard committee on drilling, piling and

tunnelling safety, and is a member of the European Standard committee on tunnelling machinery safety. He is currently UK Member Nation Representative to the International Tunnelling Association along with providing a significant contribution as amateur in Working Group 5.

Harding Prize

The standard of papers for the 2009 Harding Prize was exceptional and of the six entries, three were chosen to present their subject at the ICE on the 16th April 2009. David Naylor presented a paper on Hampton Pump Out Shaft (Problem Solving with Appropriate Construction Methods), Bethan Haig on the A3 Hindhead Road Tunnels and Michele Mangione on Segmental Opening Sets at Kings Cross St. Pancras.

Each paper was represented professionally and only one point separated first from second and third position respectively. However, there had to be a winner and Michele Mangione was awarded the 2009 Harding Prize.

4. FINANCE AND MEMBERSHIP

Bob Ibell (Chair), Paul Hoyland

Finance

To meet the financial demands on the society's funds, including inflation, the Committee agreed an incremental increase in rates in the region of 4% for 2010.

The rates for 2010 are as follows:

	<i>UK</i>	Overseas
	£	£
Corporate Member Small (Up to 50 Employees)	390.00	470.00
Corporate Member Medium (50 to 500 Employees)	620.00	820.00
Corporate Member Large (Over 500 Employees)	1005.00	1400.00
Individual	77.00	120.00
Retired	30.00	38.00
Student	26.00	38.00

The membership fee for 2010 will again include for provision of a digital version of Tunnels and Tunnelling.

The new committee will attempt to set a budget for the forthcoming year which will produce a modest loss consistent with the charitable status of the society, the surplus achieved in the current year, and the wish to accommodate additional expenditure such as sponsoring students on the new MSc Course in Tunnelling. At the same time the BTS will be funding the increasing level of activity in the society such as the Young Members Committee who are seeking to attract more young people into tunnelling.

Membership: The detail of the current membership is set out below:

	Member Classification	2009	2008	2007	Change
UK	Corporate members	48	28	30	+20
	Individual members	472	513	464	-41
	Students & Retired	53	28	50	+25
	Total	573	569	544	+4
Overseas	Corporate members	3	3	2	0
	Individual members	161	158	152	+3
	Students & Retired	10	6	10	+4
	Total	174	167	164	+7
	Overall Total	747	736	708	+11

It is pleasing to see the increased corporate membership, there does seem to be a steady increase and the support allows an increasing level of activity. This is consistent with trends in past years when there has been an increase in tunnelling activity in the UK. The young members are also doing an excellent job at bringing in number of student members.

5. HEALTH & SAFETY and STANDARDS

Donald Lamont (Chair), Ken Spiby, Lawrence Halls, Helen Natrass.

CEN Standards – draft revisions to EN 12110 (Airlocks) and EN 12111 (Roadheaders) were submitted to CEN for CEN enquiry but have not yet been sent out to national standards bodies. The revision/combination of ENs 12336 (Shield machines) and 815 (Hard rock TBMs) has been progressed to the extent that a draft text suitable for CEN enquiry can be sent to CEN. Much remains to be done before the texts can be published as harmonised standards.

BS 6164 – the revision of BS6164:2001 began during 2008. There continues to be considerable input from the BTS representatives on the BSI committee. A draft for public comment should be available in 2010.

Compressed Air Working Group – CAWG has completed work on the digitisation of the Radiographic Atlas, first used to classify dysbaric osteonecrosis in the 1960s. CAWG recently reviewed the use of real-time Doppler monitoring (as used on the Belfast Sewer Tunnel project) and decided to maintain a watching brief on developments. CAWG is in the early stages of planning a workshop/conference covering a number of topics including compressed air work at pressures in excess of 5 bar, MRI scanning and the use of Doppler monitoring to be held in 2012 or 2011.

6. TECHNICAL

Chris Dulake (Chair), Matt Sykes, Chris Bambridge, Michael Francis

The Technical Committee has been working on three main threads of work during 2009/2010, an update of the BTS Specification for Tunnelling, a new Guide to Instrumentation and Monitoring and a summary of past practice in the use of timbering in underground construction.

Work has progressed well and it is anticipated that all three publications will go press during in 2010.

Further details regarding the monitoring guide can be found under Section 12.

The committee is currently considering what technical issues to address next with the favoured topic currently being Earth Pressure Balance Tunnelling.

7. TUNNELLING LOBBY

Helen Natrass (Chair), Bill Grose, Steve Parker, Alan Bozeat, Colin Eddie

The Lobby Group has continued its efforts over the season. The Rt. Hon. Nick Raynsford MP continues as Chairman of the All Party Parliamentary Group for Underground Space (APGUS), with Helen Natrass facilitating the assistance of the BTS in arranging events.

APGUS has held the following events since the last report was prepared:

- AGM and talk on Carbon Capture
- Site visit to East London Line and Brunel's Thames Tunnel
- Site visit to Crossrail Canary Wharf Station

The site visits were attended by small groups of Parliamentarians who were able to view the works and hear about the projects from Clients, Designers and Contractors. During the visit to the East London Line, the visitors were able to walk through Brunel's tunnel from Rotherhithe to Wapping and observe this extraordinary historic structure still in use as an important piece of London's transport infrastructure.

The visit to the Crossrail Station at Canary Wharf served to underline the fact that Crossrail is already being built; an important message for the coming political climate.

The AGM and Carbon Capture talk was the only meeting held in the Houses of Parliament over the last season. The topical subject of this talk attracted Parliamentarians who had not previously attended any APGUS events.

The Lobby Group has supported the meetings of the Associate Parliamentary Engineering Group (APEG) and the All Party Parliamentary Group for Earth Sciences ensuring our presence in the wider engineering and scientific lobby.

We have made plans for the continuation of the Lobby Group's work after the coming General Election.

8. WEBSITE

Nathan Wilmot (Chair), Chris Bambridge, Ken Spiby, Shani Wallis

The BTS website (www.britishtunnelling.org.uk) is performing well and traffic figures continue to be healthy. The site shows a growing trend in visitors and the spread of traffic across search, referrals and direct sources in good.

In total, the site received between 27,850 and 46,000 hits per month throughout 2009, resulting in between 1,240 and 1,765 unique visits per month, with more than 50% of visitors returning to the site within that month for additional visits. Almost 25% of visits were through a direct request, with the remainder of referrals through search engines; search traffic remains high.

The site has been continuously updated during the last 12 months; this has included maintaining the latest news items on the homepage, updating the meetings programme as this has developed through the year, uploading newsletters as they are issued and updating the membership pages when requested, or as information changes.

Specific updates have included the development of a new secure site by Invicta IT for use by the BTS committee. Hyperlinks for all corporate members from their logos to their individual corporate websites have also been added to the Corporate Members page.

Potential additions over the next few months include a Q&A page, an update to the Working Groups pages and a dedicated sub-site for the BTS Young Members Committee.

9. TUNNELS AND TUNNELLING INTERNATIONAL EDITORIAL ADVISORY BOARD

Myles O'Reilly, (Chair), Keith Bowers, David Court, Robert Ibell, Roger Margerison, Barry New, Andrew Smith, Ken Spiby, Ivor Thomas, Nathan Wilmot

The BTS membership receives Tunnels and Tunnelling monthly. Unfortunately during 2009 publication of the journal was often late and there were problems with the arrangements for postal delivery. However by the end of the year matters were improving and appeared to be returning to normal.

Tunnels and Tunnelling International contains up to the minute news on the global tunnelling industry, a wide range of technical articles and reports of the presentations and ensuing discussions of the meetings of the Society held at Great George Street, London. It is also used to distribute the Society's notices of meetings and the like to members.

The Board met four times during 2009 and the contents of the monthly issues were reviewed with the Editorial Staff and Publisher of T&TI (Progressive Media Publishing); in addition topics for inclusion in forthcoming issues were discussed. It is important that the quality of the technical articles in T&TI is high and that the spread of topics included in each issue is sufficiently wide and comprehensive so that there is always something to interest each and every member of the Society. It is extremely important too, given T&TI's close relationship with the Society, that the journal is well regarded internationally.

It is with deep regret we record that Tom King died on 13 June some weeks short of his 80th birthday. Tom had been a member of the Board since 1979 and was the linkman with the coal mining industry. His expertise and knowledge of that industry was of inestimable value to the Board particularly when coal mining still flourished in Britain. He regularly attended meetings of the Board and his down to earth comments on matters relating to mining and construction underground were much appreciated. We would also like to mention the departure of Richard Lewis to Hong Kong. Richard had been a member of the Board since its inception in 1975.

The comments of BTS members on any matters relating to T&TI are always appreciated. Some members of the Advisory Board are invariably in the bar following Society meetings at Great George Street where they can be buttonholed and their ears suitably bent. Members are also reminded that articles and news items for inclusion in T&TI are always welcome as are letters particularly on controversial subjects. Lively correspondence columns can greatly increase readership interest in the journal!

10. INTERNATIONAL TUNNELLING ASSOCIATION (ITA)

Donald Lamont, Member Nation Representative, Martin Knights, President of ITA

In May 2009 the ITA General Assembly and World Tunnel Congress was held in Budapest. Martin Knights, as President of the ITA, chaired the General Assembly whilst Donald Lamont was the UK Member Nation representative. Olivier Vion was introduced as the new Executive Director of ITA.

Martin Knights paid tribute to the late Sir Alan Muir Wood, Honorary Life President of ITA. Claude Berenguier, Secretary General of ITA, presented an illustrated summary of Sir Alan's contribution to ITA from before its

foundation in 1970 onwards. He highlighted the support Sir Alan had received from Lady Winifred Muir Wood. His son, Prof David Muir Wood, replied highlighting some of Sir Alan's projects and a few of his more memorable phrases.

Martin Knights spoke of a "Muir Wood" lecture to be given by prominent members of the tunnelling community at future World Tunnel Congresses. The first, in Vancouver in 2010, would be delivered by Einar Broch.

Thailand was chosen to host the 2012 GA and WTC.

As usual the UK exerts a disproportionately large influence within the ITA despite the very few BTS attendees. It remains an excellent networking opportunity.

The ITA Committee on Education and Training (ITA-CET) accepted an invitation from the Saudi government to run a training course and workshop in Riyadh in December 2009. Both Martin Knights and Donald Lamont participated in this event.

11. ANNUAL DINNER

John Scholey (Chair)

The Society's twenty-first annual dinner was held at The Brewery banqueting centre on Friday 8th May 2009. The credit crunch defying attendance of 589 members, partners and guests was only 5 less than the previous year's record total. The event supplemented BTS funds by some £8,000.

Once again, the champagne reception was sponsored by Continental Conveyor, to whom very many thanks. The dinner was followed by an address by Chairman Paul Hoyland and a speech from actress Britt Ekland. The evening concluded with the traditional networking and recounting of past tunnel projects, while some danced to recorded music. It is no longer possible to squeeze a live band into the evening's programme as the venue has been obliged to impose a curfew of 11:00pm on live bands because of environmental noise restrictions.

This was our fifteenth dinner at The Brewery. An investigation into alternative venues the previous winter had concluded that the Brewery still offered the best atmosphere and value available, despite its inability to serve draught beer or accommodate late evening live music.

Please note that the 2010 dinner is on 7th May 2010. This is our usual 'slot', i.e. the one following the early May Bank Holiday. See you there!

12. MONITORING GUIDE

Damian McGirr (Chair), Keith Bowers, David Cook, Frank Mimmagh, Bob Allen, David Terry

The production of the Monitoring Guide over the past 12 months has progressed well. The document has been peer reviewed and has undergone an editorial process with Shani Wallis and Thomas Telford. The document is now essentially complete and is with Thomas Telford for publication which is anticipated to be later this year.

The publication will be titled "**Monitoring underground construction: a best practice guide**".

Below is a reminder of the scope/objectives of the guide:

1. The document is intended to provide best practice guidance to assist those who have responsibilities which require the use of monitoring systems to manage risks in underground construction. This includes Clients, Project Managers, Designers and Contractors who all have duties at different stages in the life of a project. The guidance may also be relevant to other parties, such as insurers and adjacent infrastructure owners, who have interests in underground works.
2. The scope of the report is principally geotechnical and structural monitoring relevant to underground construction. In general the report will address monitoring of parameters relevant to structural behaviour (such as displacement, stress, strain, temperature and groundwater pressure). The report does not set out to address specifically environmental monitoring (such as contamination, noise and vibration). Nonetheless, it is recognised that many principles of good practice may be common to both types of monitoring.
3. The report aims to include monitoring undertaken for a range of different objectives and on behalf of various stakeholders. Thus it is intended to include monitoring of new underground works (for construction verification and control) and the monitoring of existing infrastructure affected by underground construction (for infrastructure protection). It will also consider the need to integrate

monitoring information with works progress data to facilitate interpretation and construction management.

4. The guidance will focus on the principles which must be adopted to ensure that such systems are safe, effective and efficient. The guidance is not intended to be prescriptive in terms of detail design, which it is recognised changes relatively rapidly with advances in technology. Nor is it intended that this guide will specifically address the technology (both hardware and software) of monitoring equipment.

13. NEWSLETTER

Andrew Hindmarch (Chair)

There have been three newsletters this year – April, September and December. The newsletter continues to keep members up to date with latest BTS activities including news on liaisons with other professional institutions, upcoming meetings and conferences, health and safety updates, courses and news on members. The newsletter continues to include reports on the activities of the Young Members' Committee and the Parliamentary Lobby Group.

14. SUSTAINABILITY

Steve Woodrow (Chair), Bill Grose, Matt Sykes

As a new subcommittee, the sustainability group has been meeting regularly in order to set out its goals and objectives for the coming period.

A sustainability page has now been added to the BTS web site under the section on working groups. This includes the sustainability policy statement. The web page is currently in the process of being developed and will be populated with the following:

- List of useful web links taking users to commonly used and relevant internet sites
- Checklist of typical issues to be taken into account when considering sustainability on tunnel projects
- Examples of sustainability good practice applied to previous tunnelling projects

These items are currently being developed and will be available shortly to be added to the web page.

It is proposed to include a sustainability module as part of the BTS training course for 2010. This will take the form of a lecture/workshop, including case studies of typical examples of sustainability in tunnelling projects. Presenters/speakers for the sustainability lecture have been identified and are available to take part.

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 tunnelling 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 organisations the Society seeks to co-operate in areas of common ground with other bodies.

16. RESERVES POLICY

The reserves as of the 31st December 2009 are £147,219; the trustees consider it important to keep unrestricted reserve levels equivalent to a year's subscription income. It is necessary to ensure that there are sufficient funds to meet the needs of current and future activities and as a result, the reserves policy is renewed annually. The activities of the Society are of a long-term nature and require continuity of funding. Reserves can therefore be relied on to act as contingency in the event of income flows being disrupted. Current reserve levels exceed the budgeted target and the trustees will be monitoring the reserves over the forthcoming year to ensure that they remain at an acceptable level.

Trustees responsibilities for the financial statements

The trustees are required to prepare financial statements for each financial year which give a true and fair view of the state of affairs of the charity and the incoming resources and application of resources, including the net income or expenditure, of the charity for the year. In preparing those financial statements, the trustees are required to:

- select suitable accounting policies and then apply them consistently
- make judgements and estimates that are reasonable and prudent
- state whether applicable accounting standards and statements of recommended practice have been followed, subject to any material departures disclosed and explained in the financial statements.
- prepare the financial statements on the going concern basis unless it is inappropriate to presume that the charity will continue in business.

The trustees are responsible for keeping proper accounting records which disclose with reasonable accuracy at any time the financial position of the charity and which enable them to ensure that the financial statements comply with the Charities Act 1993. They are also responsible for safeguarding the assets of the charity and hence for taking reasonable steps for the prevention and detection of fraud and other irregularities.

17. INDEPENDENT EXAMINERS

The audit requirement for a Charity such as the BTS is for an 'independent examination of our accounts', but we have been paying fees of approximately £4,000 year on year for this service. Our accounts are compiled by the ICE accounts department and this 'independent examination' has been carried out by the same auditors as ICE.

We feel that this is a large sum for this service and taking a leaf from some of the other Associated Societies we have sought other quotations, including one from **Lindeyer Francis Ferguson**, who have a track record of working with the ICE. We are therefore minded to accept their quotation of £1500 plus VAT which would appear to be a much more appropriate figure and so it is the proposal that **Lindeyer Francis Ferguson** will take over our Independent Review for 2010.

The Trustees' Report on pages 6 – 17 was approved by the Committee and was signed on its behalf by:



Paul Hoyland
Chairman of the Society

Date of Approval: 28 October 2010

REPORT OF THE INDEPENDENT EXAMINER TO THE TRUSTEES OF THE BRITISH TUNNELLING SOCIETY

I report on the accounts for the year ended 31 December 2009, which are set out on pages 19 to 24.

This report is made solely to the trustees, as a body, in accordance with the regulations made under Section 44 of the Charities Act 1993, as amended by the Charities Act 2006, (the Act). My work has been undertaken so that I might state to the charity's trustees those matters I am required to state to them in an independent examiner's report and for no other purpose. To the fullest extent permitted by law, I do not accept or assume responsibility to anyone other than the charity and the charity's trustees, as a body, for my work, for this report, or for the opinions I have formed.

RESPECTIVE RESPONSIBILITIES OF TRUSTEES AND EXAMINER

As described on page 17, the charity's trustees are responsible for the preparation of the accounts. The charity's trustees consider that an audit is not required for this year (under section 43(2) of the Act) and that an independent examination is needed.

It is my responsibility to:

- Examine the accounts under section 43 of the Act;
- To follow the procedures laid down the General Directions given by the Charity Commission under section 43(7)(b) of the Act; and
- To state whether particular matters have come to my attention.

BASIS OF INDEPENDENT EXAMINER'S STATEMENT

My examination was carried out in accordance with the General Directions given by the Charity Commission. An examination includes a review of the accounting records kept by the charity and a comparison of the accounts presented with those records. It also includes consideration of any unusual items or disclosures in the accounts, and seeks explanations from you as trustees concerning any such matters. The procedures undertaken do not provide all the evidence that would be required in an audit, and consequently no opinion is given as to whether the accounts represent a "true and fair" view and the report is limited to those matters set out in the statement below.

INDEPENDENT EXAMINER'S STATEMENT

In connection with my examination, no matter has come to my attention:

- i. which gives me reasonable cause to believe that in any material respect, the requirements:
 - to keep accounting records in accordance with section 41 of the Act; and
 - to prepare accounts which accord with the accounting records and to comply with the accounting requirements of the Act;have not been met; or
- ii. to which, in my opinion, attention should be drawn in order to enable a proper understanding of the accounts to be reached.

Carol Rudge FCA

GRANT THORNTON UK LLP
Chartered Accountants
London

ACCOUNTING POLICIES

BASIS OF PREPARATION

The financial statements have been prepared under the historical cost convention as in accordance with United Kingdom applicable accounting standards and the Statement of Recommended Practice "Accounting and Reporting by Charities" (SORP) issued in April 2005.

The principal accounting policies remain unchanged and are set out below.

TAXATION

The charity is exempt from taxation under current legislation.

INCOMING RESOURCES

Income is included when the conditions for receipt have been met and there is a reasonable assurance of receipt.

Income and Donations and Member subscriptions

Income from member subscriptions is included in incoming resources when these are receivable.

Interest receivable

Interest is included when receivable by the charity.

RESOURCES EXPENDED

Resources expended are included in the SOFA on an accruals basis.

Costs in support of charitable activities

Costs in support of charitable activities are comprised mainly of the costs of organising meetings.

Governance Costs

Comprises the costs of trustees' expenses and independent examiner's fees.

Fund accounting

Restricted funds are to be used for specified purposes laid down by the donor. Expenditure for those purposes is charged to the fund.

CASH FLOW

The Society has used the exemption under Financial Reporting Standard No 1 (Revised) not to prepare a cash flow statement as it qualifies as a small entity.

THE BRITISH TUNNELLING SOCIETY
STATEMENT OF FINANCIAL ACTIVITIES FOR THE YEAR ENDED 31 DECEMBER 2009

	Note	Unrestricted Funds £	Restricted Funds £	Total Funds 2009 £	Total Funds 2008 £
Incoming Resources					
Incoming Resources from Charitable Activities					
Members subscriptions	1	77,351	-	77,351	65,489
Activities for Generating Funds:					
Courses and Annual Dinner	2	99,790	-	99,790	97,832
Agpus Reception	2		-	-	1,250
Tunnelling Conference	2	8,547	-	8,547	8,500
Health & Safety Course	2	5,625		5,625	
Publications	2	1,362	-	1,362	1,202
Investment Income	2	757	-	757	3,664
Total Incoming Resources		193,432	-	193,432	177,937
Resources Expended					
Costs of Generating Funds:					
Activities in furtherance of the charity	3	115,819	51	115,870	129,934
Costs in support of charitable activities	4	30,886	-	30,886	32,802
Governance Costs	5	7,638	-	7,638	4,118
Total charitable expenditure		154,343	51	154,394	166,854
Net Movement in Funds		39,089	(51)	39,038	11,083
Total Funds at 1 January		107,309	872	108,181	97,098
Total Funds at 31 December		146,398	821	147,219	108,181

All the Charity's activities derived from continuing operations during the above two financial periods.
The notes on pages 22 to 24 form part of these financial statements.

The Charity has no gains or losses other than those shown in the statement of financial activities above.

**THE BRITISH TUNNELLING SOCIETY
BALANCE SHEET AT 31 DECEMBER 2009**

		2009	2008
	Note	£	£
CURRENT ASSETS			
Debtors	8	12,480	9,509
Short term deposits		71,806	143,016
Cash at bank		89,339	16,738
		<u>173,625</u>	<u>169,263</u>
CURRENT LIABILITIES			
Creditors:			
Amounts falling due within one year	9	26,406	61,082
NET CURRENT ASSETS		<u><u>147,219</u></u>	<u><u>108,181</u></u>
INCOME FUNDS			
Unrestricted	11	146,398	107,309
Restricted	11	821	872
		<u><u>147,219</u></u>	<u><u>108,181</u></u>

Approved by the board and signed on its behalf by:

Mr Paul Hoyland - Chairman

Date

The notes on pages 22 to 24 form part of these financial statements.

THE BRITISH TUNNELLING SOCIETY
Notes to the accounts for year ended 31 December 2009

1. Members' subscriptions

The geographical analysis of subscriptions is as follows:

	2009 £	2008 £
United Kingdom	56,733	47,089
Rest of the world	20,618	18,400
	<u>77,351</u>	<u>65,489</u>

2. Activities for generating funds

	2009 £	2008 £
Courses & Annual Dinner	99,790	97,832
Tunnelling Conf	8,547	8,500
Publications	1,362	1,202
Agpus Reception	-	1,250
Health & Safety Course	5,625	-
Investment Income	757	3,664
	<u>116,081</u>	<u>112,448</u>

3. Activities in furtherance of the charity

	Unrestricted 2009 £	Restricted 2009 £	Total 2009 £	Total 2008 £
Expenses re course & dinner	59,020	-	59,020	82,058
Tunnels & Tunnelling	51,775	-	51,775	47,324
General Functions	422	51	473	-
Underground Health & Safety Course	4,602	-	4,602	-
AGPUS Reception	-	-	-	357
Parliamentary working group	-	-	-	195
	<u>115,819</u>	<u>51</u>	<u>115,870</u>	<u>129,934</u>

4. Costs in support of charitable activities

	2009 £	2008 £
Printing, stationery & photocopying	3,665	1,490
Postage	2,907	1,839
Meeting expenses & secretarial	15,433	21,071
Subscription to other bodies	1,542	1,455
Website Costs	2,186	3,463
Other costs	22	30
Publicity	1,015	3,454
Awards & Prizes	1,116	-
Grant	3,000	-
	<u>30,886</u>	<u>32,802</u>

THE BRITISH TUNNELLING SOCIETY
Notes to the accounts for year ended 31 December 2009

5. Governance Costs	2009	2008
	£	£
Examiner fees	3,915	3,849
Trustee meeting expenses	3,723	269
	<u>7,638</u>	<u>4,118</u>

6. Employees and Employment costs

The Society does not employ staff directly.

7. Trustees' remuneration

Trustees do not receive remuneration and there were no other transactions involving Trustees.

8. Debtors	2009	2008
	£	£
ICE Intercompany	10,398	
Other debtors	2,082	250
Prepayments and accrued income		9,259
	<u>12,480</u>	<u>9,509</u>

9. Creditors: amounts falling due within one year

	2009	2008
	£	£
Creditors		43,913
Receipts in advance	21,392	11,144
Accruals	5,014	6,025
	<u>26,406</u>	<u>61,082</u>

10. Restricted Funds

The committee administers the BTS CEN fund which was established in January 1991 to provide financial support to UK members of the CEN TC/151 Working group 4 which is producing European Standards for the safety aspects of tunnelling machines.

The Historical Database fund was established in July 2000. The fund is to provide financial support for a tunnelling database.

THE BRITISH TUNNELLING SOCIETY
Notes to the accounts for year ended 31 December 2009

11. Analysis of net assets between funds	Unrestricted funds	Restricted funds	Total funds
	£	£	£
Fund balances at 31 December 2009 are represented by:			
Current assets	172,804	821	173,625
Current liabilities falling due within one year	(26,406)	-	(26,406)
	<u>146,398</u>	<u>821</u>	<u>147,219</u>