

INSTITUTION OF STRUCTURAL ENGINEERS HISTORY STUDY GROUP

Activities from the beginning

- June 1969 A Recording Committee of the Newcomen Society set up under chairmanship of Dr S B Hamilton, to receive early warning of and to document structures of interest liable to be demolished (vol 47 no 6 p 213)
- October 1972 Formation of Group to study Archaeology of structures announced in *The Structural Engineer*
- March 1973 Title changed to History of structural engineering (vol 51 no 3 p 110)
- 18.9.73 Visit to Tobacco Warehouse in the London Docks group, Wapping, and then to Woolwich Dockyard to see the Smithery building
- 6.2.74 Afternoon visit to Royal Albert Hall, followed by meeting at Imperial College
- 9.1.75 *The relevance of History* – discussion at Ordinary meeting introduced by Sir Alfred Pugsley, Rowland Mainstone & James Sutherland (vol 52 no 12 Dec '74 p 441-5)
- 17-18.5.74 Visit to Ironbridge Gorge Museum
- 12.12.75 Rowland Mainstone on *Centreless domes*
- 27.2.76 R L Mills on *The work of DAMHB*
- 9.4.76* Stanley Hamilton on *The history of structural fire protection*
- 8.6.76 Emory Kemp on *Early American suspension bridges*
- 14.10.76 Visit to Portsmouth Dockyard

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| Autumn 1976 | Lectures at the Polytechnic of Central London |
| 6.10.76 | Rowland Mainstone on <i>Evolution of structural forms</i> |
| 13.10.76 | Rowland Mainstone on <i>Structural masonry</i> |
| 20.10.76 | A W Skempton on <i>Introduction of cast iron</i> |
| 27.10.76 | R J M Sutherland on <i>Introduction of wrought iron</i> |
| 3.11.76 | L G Booth on <i>Structural timber</i> |
| 10.11.76 | Christopher Stanley on <i>Concrete structures</i> |
| 17.11.76 | Paul Sibley on <i>Structural failures</i> |
| 24.11.76 | Denis Smith on <i>Structural theory and design</i> |

- 5.2.77 Business meeting
- 9.3.77 Joint with Newcomen – Denis Smith on *The role of structural models in the design of bridges – 1800 to 1870*
- 10.5.77 Visit to Kirkaldy's Testing & Experimenting Works
- 25.6.77 Visit to Chatham Dockyard

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- 1.10.77 Visit to Bristol ? did this take place?
6.10.77 N E Simons on *History of soil mechanics*

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| Autumn 77 | History lectures at PCL |
| 18.10.77 | Trevor Turner on <i>Smeaton</i> |
| 25.10.77 | A W Skempton on <i>Jessop</i> |
| 1.11.77 | Jacques Heyman on <i>Coulomb</i> (was to have been <i>Bazalgette</i>) |
| 8.11.77 | Frank Weare on <i>Telford</i> |
| 15.11.77 | Joyce Brown on <i>Cautley</i> |
| 22.11.77 | Denis Smith on <i>Bazalgette</i> (was to have been <i>Coulomb</i>) |
| 29.11.77 | John James on <i>Charles Fox</i> |
| 6.12.77 | ?? on <i>Maillart</i> |

- 12.4.78 Joint with Newcomen – Roland Paxton on *Menai Bridge*
8.5.78 Business meeting
20.9.78 Visit to Sheerness Dockyard
8.11.78 Business meeting (Meeting no 12) (49 members of Group)
10.1.79 Joint with Newcomen – J G James on *The cast iron bridges of Thomas Wilson*
28.3.79* Sean de Courcy on *Concrete and reinforced concrete 1850 – 1880*
21.6.79 Visit to Ely Cathedral
11.8.79 Denis Smith & John Smith on *A conjectural account of the method of erection of the Ironbridge* (at Ironbridge)
12.12.79* Joint with Newcomen & CIBS – Geoffrey Booth, David Billington & James Sutherland on *Aspects of Tredgold's work*
3.1.80 Business meeting
25.2.80 ?
13.3.80 David Yeomans on *Structural carpentry in 17th & 18th centuries*
? to TRADA

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| Autumn 1980 | History lecture series at the Polytechnic of Central London |
| 15.10.80* | Rowland Mainstone on <i>Calculation v Intuition</i> |
| 22.10.80* | Jacques Heyman on <i>Mechanics of the masonry arch</i> |

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| 29.10.80* | ?? on <i>Carpentry</i> |
| 5.11.80* | Bill Addis on <i>Structural analysis</i> |
| 12.11.80* | A W Skempton on <i>Classical soil mechanics</i> |
| 19.11.80* | Alan Harris on <i>Whatever became of prestressed concrete</i> |
| 26.11.80* | Frank Newby on <i>The design process</i> |
| 3.12.80* | Sir Alfred Pugsley on <i>Early aircraft structures</i> |
| 18.3.81 | Business meeting |
| 16.5.81 | Visit to Brighton West Pier |
| 9.6.81 | Frank Newby on <i>F J Samuely</i> (see also 18.3.99) |
| 19.11.81 | Business meeting |
| 11.1.82 | Andrew Smith on <i>The role of history in the teaching of structural design to architects</i> |
| 16.3.82 | Frank Newby on <i>The Engineer exhibition</i> (at AA) |
| 18.3.82 | J G James on <i>The evolution of wooden bridge trusses to 1850</i> |
| 26.3.82 | Visit to roofs in Cambridge |
| 25.5.82 | Francis Walley on <i>Early prestressing</i> |
| 20.10-15.12.82 | Nine lectures at Brighton Polytechnic |
| 21.10.82 | Ove Arup on <i>Early experiences in this country with Christiani and Nielson in the 1920s and later with J L Keir before forming his own firms</i> |
| 16.12.82 | R W Hobbs on <i>R J Jenkins Engineer and Mathematician</i> |
| 22.2.83 | Business meeting |
| 6.4.83 | Visit to St Pancras Station & Hotel |
| 23.4.83 | Visit to Royal Albert Hall |
| <u>8-10.7.83</u> | Study trip to Bristol |
| 14.11.83 | Business meeting and N N Ambraseys on <i>An historical review of the earthquake design of structures</i> |
| 16.1.84* | G J Edgell on <i>Cottacin and his pioneers work in reinforced brickwork and concrete</i> (cf paper in <i>The Structural Engineer</i> 63A(7) July 1985) |
| 13.2.84 | Review of Bristol visit |
| 22.2.84 | Business meeting (Meeting no 16) |

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Activities from the beginning

- 5.3.84 Visit to Library & Archives of the ICE
- 19.3.84* L G Booth on *Hyperbolic paraboloid timber shell roofs 1957-1975*
- 14.5.84 Sean de Courcy on *Structural Hysteresis*
- 5-8.7.84 Study trip to Edinburgh
- July 1984 75th Anniversary Conference - *The art & practice of structural design*
- 8.10.84 Business Meeting & discussion on Edinburgh visit
- 3.12.84* J Hamilton-Baillie on *General Pasley and the use of concrete in fortification in the 19th century*
- 11.2.85 Alan Harris on *Eugene Freyssinet (1879-1962)*
- 27.3.85 Visit to Salisbury Cathedral & spire
- 15.4.85 Colin Lucas & Frank Leeming on *Saltash Bridge*
- 21.4.85 Visit to Saltash railway Bridge
- 5.6.85 Neal Fitzsimons on *American classics of civil engineering*
- 4-7.7.85 Study trip to Newcastle incl
J F Clarke on *The introduction of steel into shipbuilding*
- 9.9.85 Bernard Stone on *Structural engineering practice in the 1920s & 30s and the rise in status of the I Struct E*
- 4.11.85 T M Charlton on *The life & work of C L M H Navier*
- 10.12.85 Robert Thorne on *Is Paddington Station an offspring of the Great Exhibition Building?*
- 17.2.86 Chris Jones on *The Palm House at Kew, Syon Park Conservatory & Bicton Park Palm House*
- 10.3.86 John James on *The truss designs of Neville, Warren & Kennard*
- 3.4.86 Visit to restoration of Kew Palm House
- 14.4.86 Peter Dunican on *Life with Arup*
- 12.6.86 Supper & presentation to RJMS @ 18 Rivercourt Road
- 18-22.6.86 Study trip to Paris
- 22.7.86 Visit to warehouses in London Docklands (timber roof structures)
- 10.11.86 John Mitchell & Mike Chrimes & Michael Courtenay on *Timber piling*
- 3.12.86 Introduction of Group fund
- 4.12.86* Sean de Courcy on *Two Dublin Bridges; The Essex Bridge (masonry) & the Halfpenny Bridge (CI)*

INSTITUTION OF STRUCTURAL ENGINEERS HISTORY STUDY GROUP

Activities from the beginning

- 26.1.87* Bertrand Lemoine on *Techniques in iron construction in France*
- 9.2.87 Derek Sugden on *Norwegian timber stave churches*
- 28.4.87 Visit to Sir John Soane's Museum to see drawings
- 1.6.87 Bill Addis on *Structural design in 1162 & 1862*
- 3-5.7.87 Study trip to Manchester incl Ron Fitzgerald on *Textile mills*
- 8.10.87 Sean de Courcy on *The emergence of reinforced concrete 1750 - 1910* (Ordinary meeting – published Sept '87)
- 12.10.87* Tim Hambly on *Robert Hooke (1635-1703)*
- 26.10.87 Rowland Mainstone on *Structural design in the mid 6th century*
- 9.11.87 W T F Austin on *San Francisco's big bridges – Golden Gate: San Francisco: Oakland*
- 30.11.87 Antoine Picon on *Relationship of engineering theory and practice in France in the early 19th century (1800-1850)*
- 8.2.88 Brian Clancy on *The Lancashire cotton mills – the view of the engineer 'Incomer'*
- 7-10.7.88 Study trip to Glasgow incl John Hume on *Historic structures in Scotland*
- 27.6. 88* John Le Good on Robert Maillart's age. *A look at some bridges, particularly in Eastern Switzerland*
(1st meeting in Seminar Room at I Struct E)
- 22.9.88 Visit to Owen Williams' works for Boots
- 24.11.88* John Hume on *Innovative Scottish metal bridges 1800- 1900; how novel were they?*
- 5.12.88 Visit to RIBA Drawings Collection
- 13.2.89 Robert Thorne on *RIBA Drawings Collection*
Mike Chrimes on *Brunswick Theatre roof failure*
- 28.3.89 Jackson Durkee on *Construction engineering of long span structures*
- 8.5.89 John de Courcy & Ted Ruddock on *Alexander Nimmo and his works (1783-1832)*
- 28.6-2.7.89 Study trip to Paris
- 31.10.89 Annual Business Meeting + slides of Paris visit
- 9.11.89 Ewan Corlett on *The rise & fall of iron shipbuilding*
(1st Star History Lecture)
- 29.11.89 Party at 27 Mayfield Avenue
- 4.12.89 John Martin on *Ove Arup and his footbridge at Durham; some personal recollections*
- 18.1.90 Iain MacLeod & Tom Martin on *The Tay Bridge: a modern study of the disaster*

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Activities from the beginning

- 22.3.90 Rowland Mainstone on *Hagia Sofia* to I Struct E
- 4.4.90 Bill Addis & Andrew Smith on *The relevance of history*
(at ICE to ALGS)
- 1-2.4.90 Visit to Forth Bridge
- 25.4.90 John Hume on *Trade cycles and the construction industry in the Victorian period*
- 11.5.90 Visit to Paddington Station roof
- 5.6.90* Victor Darnell on *American iron bridge building*
- 12.6.90 Preview of The Iron Revolution 1780-1880
- 14.6-20.7.90 The Iron Revolution 1780-1880 exhibition at the RIBA Heinz Gallery
- 30.8-2.9.90 Study trip to Liverpool
- 5.10.90 Visit to Cardington & Stanstead
- 8.10.90 Annual Business Meeting
- 29.10.90 Kenneth Barraclough on *The introduction of stainless steel*
- 3.12.90* Charles Judd on *History of welding*
- 4.2.91 Keith Midwinter on *Cast iron in the Royal Pavilion at Brighton*
- 14.3.91 Norman Smith on *The Roman bridge builder: some aspects of his work* (Star History Lecture)
- 18.3.91* Frank Kelsall on *Hartley's fire plates of the 18th century*
Lawrance Hurst on *Fox & Barrett fireproof floors of the 19th century*
- 24.4.91 Loren Butt on *Late 19th glasshouses. The work of Messenger & Co*
- 23.9.91 Gary Grant on *Woodmanship and the Industrial Revolution*
- 10-13.10.91 Study trip to Leeds area incl Jo Marsh on *Dissemination of engineering knowledge in 19th century bridge design*
- 28.10.91 Sergey Federov on *Structural innovations in St Petersburg architecture 1810-40*
- 4.11.91 Annual Business Meeting
Mark Whitby on *Sickle shaped trusses of the 1840s to the 1860s*
- 28.11.91 ?? on *Gustave Eiffel*
- 9.12.91 Sam Price & Russel Taylor on *Cantilevered staircases in stone*
- 19.12.91 Informal discussion evening
- 16.1.92* John Weiler on *The place of the Royal Engineers in the 19th century*
- 27.2.92 Visit to London Custom House
- 16.3.92* Keith Weston on *Problems with the towers of mediaeval cathedrals*

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| 26.3.92 | Jacques Heyman on <i>Rib vaults & flying buttresses – the structure of Gothic</i> (Star History Lecture) |
| 6.4.92 | Stanley Smith on <i>Craftsmen & contractors – their role in 19th century iron construction</i> |
| 11.5.92 | Bruce Marsden on <i>The history of the column</i> |
| <u>6.6.92</u> | Visit to early concrete hangars at Heathrow |
| 1.6.92 | Steve Neal on <i>The analysis of the iron dome of the Royal Albert Hall</i> |
| 28.6-2.7.92 | Study trip to St Petersburg |
| <u>24-27.7.92</u> | Study trip to Shropshire & North Wales |
| 12.10.92 | F E Spence on <i>Some examples of work by Empire Stone – founded 1900</i> |
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| 9.11.92 | Annual Business Meeting (Frank Newby takes over as Convenor from James Sutherland) |
| 18.11.92* | Andrei Punin on <i>St. Petersburg</i> |
| 23.11.82* | Andrei Punin on <i>Development of structural form in Russia</i> |
| 1.2.93 | Discussion on St Petersburg visit |
| 15.3.93 | Alex Koren & Yuri Pojidaev on <i>St Petersburg</i> |
| 25.3.93* | Roland Paxton on <i>Robert Stevenson</i> (Star History Lecture) |
| 19.4.93 | Richard Fenton on <i>Clevedon Pier</i> |
| 24.5.93 | Bob Lamb on <i>Jesse Hartley</i> |
| <u>5.6.93</u> | Visit to Stratfield Saye bridge |
| <u>11.6.93</u> | BL Drill Hall roof |
| 28.6.93 | Jim Coulter on <i>Greeks & structures</i> |
| 15.7.93 | Visit to St Pancras Chambers |
| 26.7.93 | Dr. Roberts on <i>The strength of biological materials</i> |
| <u>28.7.93</u> | Visit to Kew Gardens |
| <u>19-22.8.93</u> | Study trip to Aberdeen area |
| 6.9.93* | Henry Cowan on <i>Growth of Australian building technology</i> |
| 6.9.93 | Visit to British Museum to see cast iron beams |
| 4.10.93 | Bryn Bird on <i>The history of flying structures</i> |
| 22.10.93 | Christian Menn on <i>Maillart's bridges and RC in Switzerland</i> |

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| 1.11.93 | Annual Business Meeting |
| 17.1.94 | Skem on <i>Thames Tunnel ground conditions</i> |
| 29.1.94 | Visit to Sheerness Boat Store |
| 14.2.94* | Ranier Graefe on <i>The structures of V G Suchov</i> |
| 10.3.94 | RJMS on <i>Active engineering history</i> (1 st Sutherland History Lecture) |
| 24.3.94 | John Heath on <i>Andrew Handyside & Co.</i> |
| 18.4.94 | Mike Chrimes on <i>William Mackenzie</i> |
| 16.7.94 | Visit to London timber roofs |
| 20.7.94 | Visit to Stephenson's vaults |
| 22-25.9.94 | Study trip to Exeter/Plymouth area |
| 10.10.94* | Aelred Taylor on <i>RC in Australia</i> |
| 31.10.94 | Andrew Lampert on <i>Sir Robert Steppings & the structure of the ship</i> |
| 21.11.94 | John Burland on <i>Pisa</i> |
| 5.12.94 | Annual Business Meeting |
| 23.1.95 | Peter Inskip & Peter Jenkins on <i>The Temple of Concord at Stowe</i> |
| 6.2.95 | Mark Whitby & Julian Richards on <i>Building Stonehenge (by hand)</i> |
| 20.3.95 | Mark Wilson Jones on <i>The Pantheon</i> |
| 23.3.95 | Roland Mainstone on <i>The springs of invention revisited</i> (Sutherland History Lecture) |
| 1.5.95* | Patrick Moreau on <i>Ove Arup, the first 50 years</i> |
| 15.5.95* | Tom Peters on <i>Building the 19th century</i> |
| 17.7.95 | Chris Playle & Ron Slade on the <i>British Museum King's Library floor</i> |
| 10.8.95 | Visit to Lancing College Chapel |
| 2.10.95* | Bob Anchor on <i>RC shell roofs in the 50s</i> |
| 23.10.95 | Barry Mawson on <i>Transporter bridges</i> |
| 20.11.95 | Antione Picon on <i>Training of engineers in France & Britain</i> |
| 11.12.95 | Annual Business Meeting |
| 22.1.96* | Stephen Johnston on <i>Creating a new (Dover) harbour in the 16th century</i> |
| 5.2.96* | Jan Moksnes on <i>Concrete oil rig construction in the North Sea</i> |

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| 21.3.96 | Derek Sugden on <i>People and places: 50 years of recent history</i> (Sutherland History Lecture) |
| 29.4.96* | Mike Chrimes on <i>Benjamin Baker</i> |
| 3.6.96* | Denis Smith on <i>Richard Moreland & Son</i> |
| <u>8.6.96</u> | Visit to Stowe |
| 1.7.96* | Ron Fitzgerald on <i>The origin of the iron rail</i> |
| 14.10.96 | Opening of Historic Concrete exhibition at ICE & discussion on <i>Historic Concrete</i> |
| 15.10.93 | <i>Historic Concrete</i> seminar at ICE |
| 25.11.96 | Peter Ross on <i>The ship as structure</i> |
| 13.1.97 | Annual Business Meeting |
| 24.2.97 | Malcolm Tucker on <i>The Thames Tunnel</i> |
| 20.3.97* | Alan Harris on <i>Freyssinet</i> (Sutherland History Lecture) |
| 14.4.97 | Alex Sandberg on <i>Sandberg's at Sandberg's</i> |
| <u>18.5.97</u> | Visit to Culford School cast iron bridge |
| 19.5.97 | Sergey Federov on <i>Traitteur</i> |
| 30.6.97* | Tom Swailes on <i>The Royal Albert Hall roof</i> |
| 8.10.97 | Visit to Royal Albert Hall roof |
| 3.11.97 | Roger Woodley on <i>Robert Mylne</i> |
| 8.12.97 | Mike Bussell on <i>Structural history</i> |
| 26.1.98 | Annual Business Meeting |
| 16.2.98* | Alistair Jackson on <i>Early steel frames</i> |
| 19.3.98 | Lawrance Hurst on <i>An iron lineage</i> (Sutherland History Lecture) |
| 6.4.98* | Bryan Gould on <i>Wren's Sheldon Theatre roof</i> |
| 11.5.98 | Andrew Lambert on <i>Brunel</i> |
| <u>2-5.7.98</u> | Study trip to South Wales |
| 5.10.98* | David Yeomans on <i>Calculations for & history of timber roofs</i> |
| 23.11.98 | Georgio Crocci on <i>Assisi and the earthquake damage</i> |
| 7.12.98 | John Hume & Douglas MacLellan on <i>Scottish bridges</i> |
| 11.1.99 | Annual Business Meeting |

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| 25.1.99 | Royston Foot on <i>Owen Williams</i> |
| 22.2.99 | Jack Waller on <i>Oscar Faber</i> |
| 18.3.99* | Frank Newby on <i>Felix Samuely</i> (Sutherland History Lecture) |
| <u>7-11.4.99</u> | Study trip to Berlin |
| 26.4.99 | Lawrance Hurst on <i>E. O. Sachs</i> |
| 17.5.99 | Frank Newby more on <i>Samuely</i> |
| 27.9.99* | John van Laun on <i>The evolution of iron trackway in Wales</i> |
| 18.10.99* | Peter Jefferson Smith on <i>The l'Ansons</i> |
| 22.11.99* | John Allen on <i>Lamella roofs</i> (joint with Newcomen) |
| 6.12.99 | Federico Mazolani on <i>Steel in historic buildings</i> |
| 10.1.00 | Annual Business Meeting |
| 8.2.00* | Skem on <i>Samuel Wyatt</i> |
| 29.2.00 | Visit to London Eye |
| 9.3.00 | Francis Walley on <i>From bomb shelters to post war buildings</i> (Sutherland History Lecture) |
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| 31.3.00 | Lawrance Hurst takes over as Convenor from Frank Newby |
| 3.4.00 | Michael Bailey & John Glithero on <i>The archaeology of The Rocket</i> |
| 3.5.00 | Visit to Wellington Arch |
| <u>4-7.5.00</u> | Study trip to Gloucestershire |
| 16.5.00* | James Campbell on <i>Timber & other structures by Christopher Wren</i> |
| 20.6.00* | Emory Kemp on <i>The early modern suspension bridge 1801-1870</i> |
| 12.8.00 | Visit to St Paul's Cathedral |
| 10.10.00* | Bob Adams on <i>Henry Adams</i> |
| 31.10.00 | Tim Strickland on <i>The Roman legionary fortress at Chester</i> |
| 27.11.00* | Jonathan Coad & Oliver Cox on <i>Edward Holl and Jamaica Hospital</i> |
| 12.12.00 | David Barfield, Julia Marks, Jane Wernick, John Roberts & Loren Butt on <i>The London Eye</i> |
| 9.1.01 | Annual Business Meeting |
| 12.2.01* | Jack Knight on <i>Railway tunnels</i> |

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- 8.3.01 James Sutherland on *Back to the Sixties* (Sutherland Lecture)
- 2.4.01 Roger Davies & Stephen Dean on *Oxford Midland Station*
- 29.5.01 Visit to CTRL
- 24.9.01 James Ayres on *The building crafts in an age of industrialisation*
- 11.10.01* Mark Wilson Jones on *Trajan's column as a building*
- 17.10.01 All day conference on *IRON and GLASS – The Crystal Palace and its influence*
- 29.10.01 Derek Portman on *Suspension bridges in Britain in the early 19th century with particular reference to the Clifton suspension bridge competition.*
- 19.11.01* Janet deLaine on *Roman concrete with particular reference to the baths at Caracalla*
- 10.12.01 *Frank Newby's life, his contribution to structural engineering, to engineering history and to our Group*
- 14.1.02 Annual Business Meeting
- 11.2.02 Dr Roy Rowe on *The early days of the Cement and Concrete Association*
- 18.3.02 Malcolm Tucker on *Gasholders*
- 8.4.03* Jonathan Clarke on *Watson's Esplanade Hotel, Mumbai (1867-71) and its place in structural history*
- 29.4.02 Antoine Picon on *Architecture and engineering: a productive divorce?*
- 16.5.02* Ted Ruddock on *Some iron suspension bridges in Scotland and their origins, between 1816 & 1834* (Sutherland Lecture)
- 20.5.02* David de Haan & Andrew Smith on *New studies of the Ironbridge*
- 17.6.02* John Ochsendorf on *Engineered Brick Vaulting in the 20th Century*
- 23.9.02 Frank Kelsall on *Building Patents and the market*
- 21.10.02* Michael Lewis on *The evolution of cast iron edge rails*
- 14.11.02* Rowland Mainstone's *Further thoughts on Roman concrete*
- 20.11.02 Sir Neil Cossons on *Engineering a Nation* (Maitland Lecture)
- 16.12.02 Derek Sugden on *European Opera Houses and Concert Halls*
- 17.12.02 Visit to Wembley Stadium demolition
- 13.1.03 Annual Business Meeting
- 10.2.03* Ron Fitzgerald on *Buildings for mechanical engineering & foundries*
- 6 3 03 Werner Lorenz on *The first decades of building with iron and steel in Germany* (Sutherland Lecture)

INSTITUTION OF STRUCTURAL ENGINEERS HISTORY STUDY GROUP

Activities from the beginning

- 17.3.03 Donald Buttress on *Architect, Master Mason, Carpenter, Surveyor, Engineer – Are these terms interchangeable?*
- 2.4.03 Visit to exhibition at the Soane Museum (transferred from Vincenza and Basle) John Soane and the wooden bridges of Switzerland: Architecture and the culture of technology from Palladio to Grubenmann – intro David Yeomans
- 14.4.03 Jean & Oliver Cox on *The Alton Estate at Roehampton*
- 29.4.03 David Blockley with support from Michael McCartney and Ross Smith on *Learning with history*
- 12.5.03 Stuart Tappin on *The early use of reinforced concrete in India*
- 17.9.03 Andrew Smith on *The erection of the Iron Bridge in 1779*
- 7.10.03 Jupp Grote on *The story of prestressed concrete from 1930 – 1945*
- 27.10.03 Archie Walls on *The conservation of Arad Fort, Bahrain*
- 17.11.03 Peter Lewis on *Forensic engineering: a reappraisal of the Tay Bridge disaster*
- 15.12.03 Colin Kirkland on *The Channel Tunnel- a short history of the project since 1802*
- 16.12.03 Visit to St George's Bloomsbury
- 12.1.04 Annual Business Meeting
- 4.2.04 Visit to Comet Hangar at Hatfield
- 9.2.04 Malcolm Tucker on *Gasholder tanks and holes in the ground*
- 11.3.04 Visit to Brunel bridge at Paddington
- 29.3.04 Steven Brindle on *Paddington*
- 19.4.04 Michael Cooper on *Robert Hooke's part in the rebuilding of London after the Great Fire of 1666*
- 10.5.04 Michael Chrimes on *The Engineer as hero -Perceptions of the greatness of British engineers*
- 7.6.04 Discussion on Paddington and Iron Construction c1844-55 led by Steven Brindle
- 24-27.6.04 Study tour to Liepzig
- 27.9.04 Jonathan Clarke on *Early structural steel in London buildings*
- 25.10.04 Michael Bussell on *Early reinforced concrete in British buildings*
- 15.11.04 Discussion on early steel and reinforced concrete buildings led by Jonathan Clarke and Michael Bussell
- 6.12.04 Engineering in Art

INSTITUTION OF STRUCTURAL ENGINEERS HISTORY STUDY GROUP

Activities from the beginning

- 10.1.05 Annual Business Meeting & report on Leipzig study tour
- 14.2.05 Derek Portman on *Henry Brunel*
- 7.3.05 Archie Walls on *The Bam earthquake and earthen architecture*
- 4.4.05 Simon Swann on *Castle House*
- 25.4.05 John Vignoles and John Hannavy on *Kiev Bridge*
- 16.5.05 Bill Harvey on *Arches and vaults*
- 6.6.05 Ron Packman on *Engineering and sculpture*
- 26.9.05 Peter McCurdy on *The reconstruction of Pilton Barn*
- 24.10.05 Simon Inglis on *Engineering Archie*
- 14.11.05 Clive Ellam on *Avoiding fatigue in aeroplane structures*
- 12.12.05 Denis Smith and Sonia Rolt on *The Engineer and the Industrial Landscape in English Literature*
- 16.1.06 Annual Business Meeting & Jonathan Wood on *Guédelon: Building a 12th Century castle*, Bill Addis on *Wuppertal monorail*, Loren Butt on *Albert Bridge*, Steve Wood on *his Lethaby Scholarship and 'cantilever' stairs at Chatsworth & Mount Stewart*
- 2.2.06 Sutherland History Lecture by Santiago Huerta
- 13.2.06 Steven Brindle & Malcolm Tucker on *Brunel's use of cast iron*
- 13.3.06 Richard Fenton & Richard Fowles on *The corrosion of SS Great Britain*
- 10.4.06 Bill Addis on *The use of structural models in design*
- 8.5.06 Alan Johnson on *The Seddons*
- 5.6.06 Jon Clarke on *Cones, not domes: John Nash and Regency structural innovation*
- 25.9.06 Michael Bussell on *Seaside pleasure piers: a threatened species? The lessons of Brighton West Pier*
- 23.10.06 Randolph Langenbach on *the Saga of the Half-timbered Skyscraper: What Does Half-Timbered Construction Have to Do with the Chicago Frame?*
- 13.11.06 John Mitchell and Alf Perry on *New discoveries about the Clifton Suspension Bridge* (joint with ICE at ICE)
- 11.12.06 David Greenfield, Steven Brindle, Rob Kinchin-Smith & Bill Harvey on *Brunel's Maidenhead Bridge – a discussion*
- 15.1.07 Annual Business Meeting with Ken Shaw on *Stone 'cantilever' staircases* and Stuart Tappin on *Listing of 1970s buildings*
- 1.2.07 Sutherland History Lecture by Michel Virlogeux
- 12.2.07 Robert Bowles on *Interesting timber beams in eighteenth century floors*

INSTITUTION OF STRUCTURAL ENGINEERS HISTORY STUDY GROUP

Activities from the beginning

- 5.3.07 Tony Taylor on *The Roman London Water Mechanisms*
- 2.4.07 Peter Cross-Rudkin, Mike Chrimes and James Sutherland on *Biographical Dictionary of Civil Engineers – Volume Two*
- 23.4.07 Richard Hughes on *Brick engineering of Moenjodaro*
- 14.5.07 Julian Harrap and Clive Dawson on *The re-erection of the former Portable Airship Hangar at Farnborough*
- 5.6.07 David Derby, Chris Steven & Simon Fraser on *The Royal Festival Hall*
- 30.8.07 Visit to St Pancras International (Alastair Lansley and Dominique Didinal)
- 24.9.07 Matthew O’Sullivan and Tom Swailes on *Wrought iron rediscovered*
- 15.10.07 Guy Murphy on “Home & Away”- *Australasia in British Architectural Periodicals 1840-1914*
- 5.11.07 Gwilym Roberts on *St Pancras One*
- 10.12.07 Denis Smith on *Henry Bessemer*
- 14.1.08 Annual Business Meeting with Sinclair Johnson on - *St Giovanni Rotondo* and Paul Bell on - *A selection of interesting buildings*
- 4.2.08 Simona Valeriani on *Italian influences on the roofs of Wren & Jones*
- 14.2.08 Sutherland History Lecture by John Ochsendorf
- 25.2.08 Robert Bowles & Robert Thorne on *A hundred years of engineering & conservation*
- 17.3.08 Royston Foot on *Owen Williams’ concrete ships*
- 7.4.08 Gareth Hughes and Graham Slade on *Paddington Span 4*
- 28.4.08 Bernard Espion on *The Buildings of Brussels Expo 58*
- 19.5.08 Lynne Lancaster on *Stress Management and Weight Control: Technological Innovation in Vaulting in Imperial Rome and the Provinces*
- 22.9.08 Steven Brindle on *Brunel as architect*
- 13.10.08 Lawrance Hurst on *The rise and fall of the use of bond timbers in brick buildings*
- 05.11.08 Bob Stagg, Isaac Hudson & Marcin Gustyn on *The Royal Albert Hall roof – a new analysis*
- 24.11.08 Robin Whittle on *100 Years of Reinforced Concrete Flat Slabs*
- 15.12.08 James Miller on *Westminster Hall – diagnosis & arresting of settlement*
- 12.01.09 Annual Business Meeting
- 12.02.09 Sutherland History Lecture by Rainer Graefe
- 13.02.09 Visit to The House of Detention, Clerkenwell (Andrew Smith)

INSTITUTION OF STRUCTURAL ENGINEERS HISTORY STUDY GROUP

Activities from the beginning

- 25.02.09 Jonathan G M Wood on *Investigating Durability: Hennebique's 1905 Tuckton Bridge and Owen Williams' 1930 Montrose Bridge and other C20th Concrete Structures*
- 16.03.09 Jonathan Coad on *New materials, new technologies, new ways: Building the Royal Dockyards 1790-1850*
- 06.04.09 Peter Dare on *The completion of St John's Cathedral, Brisbane*
- 08.04.09 Joint meeting with the Newcomen Society: Professor Stefan M Holzer on *The Polonceau Roof and its Analysis*
- 27.04.09 Waldemar Affelt on *The Vistula river bridge of 1857 in Tczew*
- 12.05.09 Joint meeting with the Construction History Society and the ICE Panel for Historical Engineering Works: Andrew Saint on *Almost but not entirely without interest: Reflections on the History of Concrete*
- 18.05.09 Bill Harvey on *Clifton Vaults*
- 28.09.09 Sandor Vaci on *William Tierney Clark and the Buda-Pest Chain bridge 1839-49*
- 02.11.09 Julian Harrap & Clive Dawson on *Survey, repair and innovation at The Monument*
- 23.11.09 Bill Addis on *Francesco di Giorgio – Renaissance engineer*
- 18.01.10 Annual Business Meeting & David Yeoman's on *When is an arch not an arch?*, Sinclair Johnston on *Crossrail and historic buildings*, Brian Neale on *the revision of BS 6187*, Lawrance Hurst on *Structural stone on Andros*, Paul Bell on *the Das Blaue Wunder bridge over the Elbe at Dresden*
- 08.02.10 Steven Brindle and Clive Dawson on *Westminster Abbey's Chapter House*
- 25.02.10 Sutherland History Lecture by Ian Firth *Lessons from history – the steel box girder story*
- 08.03.10 Jon Orrell and Mike Chrimes on *Screw piles*
- 25.03.10 Visit to Westminster Abbey Chapter House roof
- 29.03.10 Malcolm Millais on *From master to servant; the rise and fall of the structural engineer*
- 19.04.10 Derek Flippance on *British military bridging*
- 10.05.10 Brian Lewis on *Brunel's timber bridges and viaducts*
- 07.06.10 Bill Addis on *How did engineers calculate (their designs) before computers?*
- 17-20.09.10 Study tour: Timber roofs in Southern Germany led by David Yeomans'
- 20.09.10 Visit to St Pancras Chambers site led by Royden Stock
- 04.10.10 Hadyn Davies on *Rebirth of a legend – St Pancras Chambers*
- 25.10.10 Michael Beare on *Selfridges*
- 15.11.10 Edwin Trout on *Some writers on concrete: 1897-1935*
- 13.12.10 Alan Hayward on *Train loading on bridges since Stephenson's Rocket*

INSTITUTION OF STRUCTURAL ENGINEERS HISTORY STUDY GROUP

Activities from the beginning

- 10.01.11 Annual Business Meeting & David Yeomans' report on the German roofs study tour and presentation on shell roofs, Simon Quarrell on early 20th century house terminally damaged by gross subsidence and Alan Johnson on cast iron tee beams
- 14.02.11 Jim Solomon on *The Cutty Sark*
- 17.02.11 Sutherland History Lecture by Antoine Picon *The Aesthetics of Engineering*
- 14.03.11 Roland Paxton on *The design and construction of the Bell Rock Lighthouse*, Joint meeting with Construction History Society (CHS)
- 04.04.11 Ronald Weeks on *Clifton Cathedral*
- 09.05.11 Henrietta Heald on *William Armstrong*
- 06.06.11 Henrik Schoenefeldt on *Investigating the role of architectural and environmental experimentation in the design of the Crystal Palace*
- 19.09.11 Noel O'Keeffe, Eoghan Lehane, Kieran Ruane, Enda Collery and Ross O'Donovan on *Mizen Head Footbridge*
- 17.10.11 Andrew Mair on *The Dounreay Sphere*
- 07.11.11 John Vignoles on *The Bahia and San Francisco Railway*
- 05.12.11 Patrick Sullivan on *Mansion House*
- 19.12.11 Simon Clarke on *Eros*
- 16.01.12 Annual Business Meeting & Paul Bell on *Bloomers Hole footbridge*, Alan Hayward on how he extended a Trusteel Mk II steel framed system-built house, Bryn Bird on *Vehicle suspensions – a new solution to an old problem*, Alan Johnson on *Callcott Reilly's and his iron bridges*, Sinclair Johnson on *Late 19th century ferrous metal*, Tony Taylor on *The Roman Wallbrook*.
- 06.02.12 Matthew Landrus on *Structural intuitions in Leonardo's work and their practical intentions*
- 16.02.12 Sutherland History Lecture by Bill Harvey *The Coy mistress: a view of masonry behaviour*
- 27.02.12 Randolph Langenbach on *Frames v solid walls: an historical precedent for earthquake collapse avoidance in modern buildings*
- 19.03.12 Gary Noble, Graham Lambert and Adam Smith on *Restoring Albert Bridge*
- 16.04.12 Ed Morton on *The South Oculus Window at Canterbury Cathedral*
- 14.05.12 Alan Hayward on *The Construction of railway bridges then and now*
- 24.09.12 David Rolton on *Heavy lifting over the years*
- 05.11.12 An Evening for James Sutherland
- 26.11.12 Oona Hickson on *The Gunboat sheds at Haslar – a unique naval establishment*
- 17.12.12 Elspeth Baecke on *The Changing face of Blackfriars*

INSTITUTION OF STRUCTURAL ENGINEERS HISTORY STUDY GROUP

Activities from the beginning

- 14.01.13 Annual Business Meeting & Alan Hayward, Brian Hall & John Peat on *The Fereday-Palmer and LMS strain recorders strain recorders*, Paul Bell on *Examples of timber girders* and Lawrance Hurst on *A concrete house in Stapleford near Cambridge dating from 1875*
- 04.02.13 James Miller on *The Restoration of Tynemouth Station, Newcastle*
- 14.02.13 Sutherland History Lecture by Bill Addis "*Toys that save millions*" - a history of *physical model testing in the design of structures*
- 25.02.13 Ed Morton on *The Serlio (Chinese lattice) floor at Wollaton Hall*
- 18.03.13 A Tribute to Francis Walley
- 08.04.13 Clive Dawson and Brian Kerr on *Windsor Castle Round Tower*
- 29.04.13 Mark Whitby and Jane Joyce on *Peter Rice – the James Joyce of engineering*
- 20.05.13 Steven Brindle on *Historic engineering issues in the Upper Ward at Windsor Castle*
- 30.09.13 Andrew Smith on *The New River, 400 years and still flowing*
- 21.10.13 David Yeomans on *Frank Newby: an architects' engineer*
- 11.11.13 Richard Byrom on *Icons of the Victorian waterfront: the rise and demise of the Fairbairn crane*
- 09.12.13 Simona Valeriani on *The Use of 3D models in early modern times*
- 13.01.14 Annual Business Meeting & Alan Johnson on Fanesbridge footbridge revisited, David Yeomans' Further thoughts on the Serlio floor at Wollaton Hall, David Prichard on Meon Valley Railway and Sinclair Johnston
- 03.02.14 David Greenfield, David Reynolds and Charles Cocksedge on *James Dredge – the Victoria Bridge, Bath and its restoration*
- 13.02.14 Sutherland History Lecture by James Thomson on "*Not up, not down, but sideways*"
- 24.02.14 Alan Hayward on *The Severn Railway Bridge disaster of 1960* [last to be given at 11 Upper Belgrave Street]
- 17.03.14 Roland Paxton on *Adam Hunter 1869-1933 – Chief Engineer Sir William Arrol & Co Ltd* [given at The Gallery, Cowcross Street – talks were given here for the rest of the year]
- 07.04.14 Bernard Espion on *The early use of prestressed concrete in Belgium*
- 28.04.14 Hadyn Davies on *Whatever happened to LUL's Fleet Line?*
- 19.05.14 Andrew Saint on *The Eiffel Tower*
- 19.05.14 Andrew Smith takes over as Convenor from Lawrance Hurst
- 16.09.14 Robert Thorniley-Walker on *Castles and city walls of the North: conservation and forensic engineering*
- 07.10.14 Celebration of Lawrance Hurst's time as Convenor at The Parcel Yard, King's Cross

INSTITUTION OF STRUCTURAL ENGINEERS HISTORY STUDY GROUP

Activities from the beginning

- 28.10.14 Stephen Hughes on *The Evolution of early structural iron in China, Russia and Wales*
- 18.11.14 Mark Whitby and Jane Joyce on *Robert Maillart: reinforced concrete revolutionary*
- 02.12.14 David Scott Cowan on *Charles Drake and the concrete house*
- 27.01.15 Mike Chrimes on *Architectural dilettantes? The buildings of British engineers in India 1600-1900* [first to be given at Bastwick Street]
- 12.02.15 Sutherland History Lecture by Alan Hayward on *125 years of steel bridges in Britain*
- 24.02.15 Annual Business Meeting and Robert Thorne on *The re-creation of the vault of the Schlosskapelle in Dresden*; Bill Harvey on *The use of hand-held scanners and software*; Randolph Langenbach on *Piranesi's 'Vedute di Roma'* and Kevin Hallaway on *The structure of the Belvedere of Halton House*
- 10.03.15 Bill Harvey on *Some New Zealand bridges*
- 24.03.15 Jane Insley on *St Paul's: surveying the fabrick*
- 21.04.15 Sinclair Johnston and Kevin Hallaway on *Any old iron [Sir Joseph Bazalgette's wrought iron coal sheds at Deptford Pumping Station and framing of the Belvedere of Halton House]*
- 12.05.15 Richard Byrom on *Fairbairn's iron girder bridges*
- 02.06.15 Noeme Santana on *S. Pearson and the relationship between civil engineering and photography*
- 23.06.15 Paul Bell on *19th century laminated timber arch roofs*
- 01.09.15 Visit to The Aviary at London Zoo with introductory talk by David Yeomans
- 17-20.09.15 Study visit to Bristol and Bath
- 03.11.15 Bernard Espion on *Thin concrete shells in France before World War 2*
- 01.12.15 Stuart Tappin on *Repair and refurbishment work at Dudley Zoo*
- 19.01.16 Annual Meeting and Paul Bell on *Two early suspension bridges*, David Yeomans on *The recent Cottbus conference 'Architect and Engineer in the Interwar Period, 1919-1939'*, Sinclair Johnston on *The cast iron bridges over the New River* and Bryn Bird on *The shaft at the Brunel Visitor Centre*
- 09.02.16 Margaret Cooke and Kim Collins on *Restoration work at Dyrham Park near Bath*
- 18.02.16 Sutherland History Lecture by Rainer Barthel on *The Gothic Tower of Freiburg Minster: structural analysis and repair*
- 15.03.16 Richard Fenton on *The new HMS Victory support structure*
- 19.04.16 Martin Beaumont on *Sir John Hawkshaw – master of materials*
- 03.05.16 Tony Taylor on *The Roman Walbrook and its legacy*
- 24.05.16 Julia Elton on *Who designed the Clifton Suspension Bridge? Fact and fiction*
- 14.06.16 Barbara Berger on *Italian gasholders: import or export?*

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Activities from the beginning

- 23.09.16 Visit to the Arup Exhibition at the V&A
- 04.10.16 Edwin Trout on *Henry Scott, RE, designer of the Royal Albert Hall and Kensington Museum*
- 08.11.16 Robert Thorne on *Fox Henderson*
- 28.11.16 Visit to Tower Bridge re-decking works
- 06.12.16 Ian Edwards on *Luxcrete: 'light years ahead'*
- 10.01.17 Annual Meeting and Alan Hayward on *Preserving the timber railway bridges in Wales*, Stuart Tappin on *Trinity Church, Poplar and Armoured Tubular Flooring in Yangon (Rangoon)* and Sinclair Johnston on *Hammersmith Bridge and CARE*
- 07.02.17 Bill Harvey on *Arched viaducts*
- 16.02.17 Sutherland History Lecture by John Rees, Aogan Mulcahy and Bob MacKean on *A Decade in the life of the Clifton Suspension Bridge*
- 21.03.17 Paul Bell on *The Structure of the Georgian London House*
- 25.04.17 Nick von Behr on *Sir John Wolfe Barry: Tower Bridge to the BSI - engineering pathways*
- 16.05.17 Alan Hayward on *William Marriott: engineer of a Norfolk railway and a pioneer of reinforced concrete*
- 13.06.17 Sandor Vaci and John Vignoles on *The Chain Bridge, Budapest web archive*
- 12.09.17 Chris Burgoyne and Owen Mitchell on *Prestressing at Coventry Cathedral*
- 23.09.17 Visit to Coventry Cathedral
- 03.10.17 Bill Harvey and Hamish Harvey on *Assessing structures at Liverpool Road Station, Manchester*
- 31.10.17 David Wiggins on *The repair of masonry bridges in Cumbria*
- 05.12.17 Paul Bell on *John Green (1787-1852) and Benjamin Green (1813-1858) - builders, engineers and architects in the North East of England*
- 16.01.18 Annual Meeting and Paul Bell on *The "Kissing Bridge" in West Montrose, Ontario*, Julia Elton on *The Clifton Suspension Bridge competitors*, Alan Hayward on *Restoring the only surviving Victorian timber framed footbridge at Alton Station* and John Vignoles on *Charles Blacker Vignoles in 1824*
- 08.02.18 Sutherland History Lecture by David Wendland on *Ribs to nowhere and pendant bosses: the structural and geometric design of late Gothic vaults*
- 26.02.18 Bryn Bird on *The Brunel Museum's acquisition of the Thames Tunnel drawing collection and what they reveal*

INSTITUTION OF STRUCTURAL ENGINEERS HISTORY STUDY GROUP

Activities from the beginning

- 03.04.18 David Yeomans on *Setting out of Greek and Roman buildings and medieval cathedrals*
- 24.04.18 *Temporary works and historic structures: joint meeting with the Temporary Works Forum (TWf)*. Stuart Marchand on *Façade and party wall retention temporary works*; Cristina Orgaz on *Buxton Crescent Hotel - a Grade I listed building from the 18th Century*; Andrew Stotesbury on *Hammersmith Flyover - Surgery to a vital artery*
- 13.05.18 Visit to Harmondsworth Great Barn
- 15.05.18 Felicity Henderson on *Robert Hooke and Associates: investigating influences on Hooke's work*
- 12.06.18 Rose Teanby on *Robert Howlett's photography of Saltash Bridge*
- 18.09.18 Mike Chrimes on *Jesse Hartley's bridges*