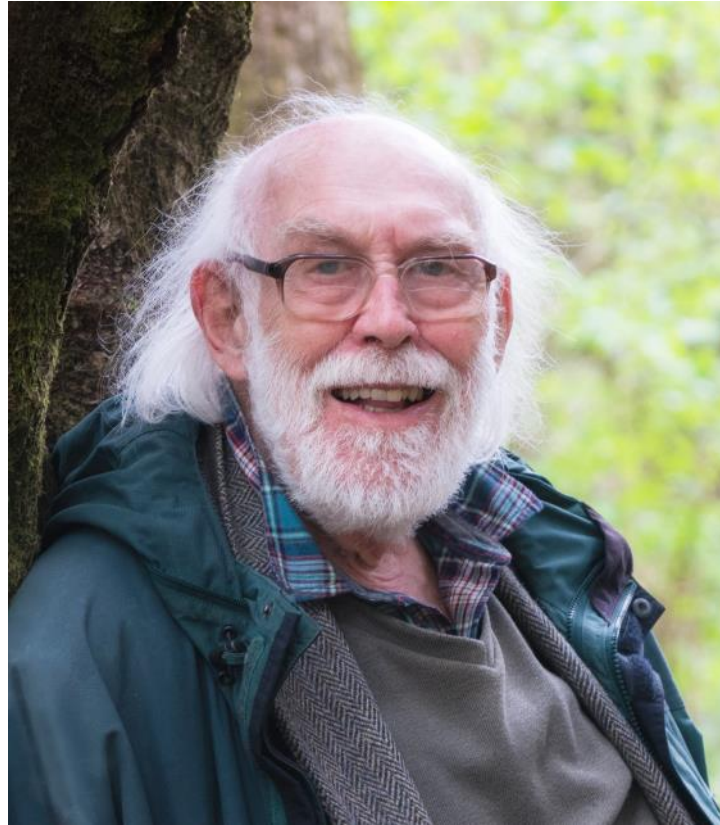


Surrey  
Industrial  
History  
Group  
News  
Letter



No 219 Aug 2018

[www.sihg.org.uk](http://www.sihg.org.uk)



Alan Crocker  
1935 - 2018

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## SIHG Newsletter No 219 August 2018

Enquires to Programme Co-ordinator Bob Bryson: 01483 577809, meetings@sihg.org.uk.

**The 43rd season of SIHG  
Industrial Archaeology Lectures at Guildford**  
alternate Mondays or Tuesdays, 19:30-21:30  
**Church House Guildford, 20 Alan Turing Road, Guildford GU2 7YF**  
(map: [www.sihg.org.uk](http://www.sihg.org.uk)).  
Single lectures at £5, payable on the night, are open to all.

### 2018

Mon 1 Oct **Brunel, Scott Russell and the Great Eastern**  
*Prof. Andrew Lambert, Dept of War Studies King's College London*

Tue 9 Oct **London Underground's Edwardian Tile Patterns**  
*Douglas Rose, London historian and information designer*

Tue 23 Oct **R34: New York - There & Back Again - an Airship's tale** Nigel Hills, of the Airship Association

Mon 5 Nov **A History of the Singer Marque** Michael Hyman, Editor MASCOT for the Assn of Singer Car Owners

Mon 19 Nov **The Joe Lyons Story: Food for Thought** Neville Lyons, relative of the co-founder of J Lyons & Co

Tue 11 Dec **Members' Talks Evening - Free to all** Short talks by members plus refreshments

### 2019

Mon 7 Jan **The Ramblings of a Railwayman** Geoff Burch, railwayman & author

Tue 22 Jan **A History of the Post Office Underground Railway**  
*Chris Taft, Historian and Head of Collections at The Postal Museum*

Tue 5 Feb **Conkers, Cordite and the Birth of Modern Biotechnology**  
*Martin Adams, Emeritus Prof of Microbiology, University of Surrey*

Tue 19 Feb **TBA**

Tue 5 Mar **Iron Men - C19th Engineer Henry Maudslay and his Circle**  
*David Waller, author and former Financial Times journalist*

### **Thursday Morning Lectures at Leatherhead, weekly 10:00-12:00**

Room G6 The Institute, 67 High Street Leatherhead KT22 8AH  
**Non-member full fee £50 SIHG member £45.**  
Single lectures at £5, payable on the night, are open to all.

### 2018

Thu 4 Oct **The Merchant Navy at War Pt III, including The Falklands** Richard Mellor, Maritime Shipping Rtd  
\*\* Details of further meetings to follow - see [www.sihg.org.uk](http://www.sihg.org.uk) for updates \*\*

### Surrey Industrial History Group

Saturday 28 July 2pm

### AGM and Conservation Award Ceremony

at Shere Village Hall and Museum;

(An up-to-date agenda will be available on the day.)

If you have not renewed your **SIHG Membership**

Please complete it promptly and send it,  
with a cheque payable to 'Surrey Archaeological Society', to  
Surrey Archaeological Society (SIHG), Castle Arch, Guildford GU1 3SX.  
You may also choose to pay by Standing Order.  
If you already pay by Standing Order you need not take any action..

### SIHG Guildford Lectures

Please note that cheques should be made out to 'SIHG' and  
sent to Bob Bryson, 6 Wychelm Rise, Guildford, Surrey GU1 3TH

Please note the NEW VENUE for the Guildford meetings -

**Church House Guildford,  
20 Alan Turing Road, Guildford GU2 7YF**  
(on the Science Park)

## Venues, Times & Contacts

Most venues open 30 minute before the published time.

- Amberley Museum & Heritage Centre:** 10:00-17:00; £14/£13; Amberley Railway Station BN18 9L; [www.amberleymuseum.co.uk](http://www.amberleymuseum.co.uk); 01798 831370.
- Ancient Technology Centre:** 10:00-16:00; £6; Damerham Road, Cranborne, Dorset BH21 5RP; (behind school); 01725 517618, [www.ancienttechnologycentre.co.uk](http://www.ancienttechnologycentre.co.uk).
- Anne of Cleves House:** Tue-Sat 10:00-16:00, Sun-Mon 10:00-17:00; £6:10/£5:80; 52 Southover High Street, Lewes, Sussex BN7 1JA; 01273 474610.
- Berkshire Industrial Archaeology Group (BIAG):** 19:30; £2-50; St Mary's Church Hall, Castle Street, Reading, RG1 7RD; [www.biag.org.uk](http://www.biag.org.uk).
- Brooklands:** open Summer 10:00-17:00, Winter 10:00-16:00; £11/£9.90; Brooklands Rd, Weybridge, Surrey KT13 0QN; [www.brooklandsmuseum.com](http://www.brooklandsmuseum.com); 01932 857381.
- Brunel Museum:** Railway Avenue, Rotherhithe, London SE16 4LF; £6/£4; 020 7231 3840.
- Bursledon Brickworks:** steam days £7/£6, open days £4/£3; Coal Park Lane, Swanwick, Southampton SO31 7GW; [www.bursledonbrickworks.org.uk](http://www.bursledonbrickworks.org.uk); 01489 576248.
- Chatham Historic Dockyard:** 10:00-18:00, £22/£19-50; Chatham, Kent ME4 4TZ; 01634 823800, [www.thedockyard.co.uk](http://www.thedockyard.co.uk).
- Crofton Beam Engines :** 10:30-17:00; £8/£7; Crofton, Marlborough, Wiltshire SN8 3DW
- Crossness Engines:** 10:30-16:00, £8; The Old Works, Crossness STW, Belvedere Road, Abbey Wood, London SE2 9AQ; [www.crossness.org.uk](http://www.crossness.org.uk); 020 8311 3711.
- Croydon Airport Society Visitor Centre :** open 1st Sunday of the month, 11:00-16:00, free; Airport House, Purley Way, Croydon CR0 0XZ.
- Croydon Natural History & Scientific Society (CNHSS):** 19:45; free? UR Church Hall, Addiscombe Grove, E Croydon CR0 5LP; <http://cnhss.co.uk>; 0208 668 1431.
- Didcot Railway Centre:** 10:30-17:00; £10-00/£9-50; Didcot Parkway railway station, Didcot, Oxfordshire OX11 7NJ; [www.didcotrailwaycentre.org.uk](http://www.didcotrailwaycentre.org.uk); 01235-817200.
- Docklands History Group:** 18:00, £2; Museum of London Docklands, No 1 Warehouse, West India Quay, Hertsmere Rd, Canary Wharf, London E14 4AL; [www.docklandshistorygroup.org.uk](http://www.docklandshistorygroup.org.uk); 01689 851982.
- Dorking Museum & Heritage Centre:** Thurs, Fri, Sat 10:00-16:00; £2/£1; 62 West Street, Dorking, Surrey RH4 1BS; [www.dorkingmuseum.org.uk](http://www.dorkingmuseum.org.uk), 01306 876 591.
- Gatwick Aviation Museum:** Open Friday, Saturday and Sundays; 09:30-15:30; £7-50; Vallance-Byways, Lowfield Heath Road, Charlwood RH6 0BT; <http://www.gatwick-aviation-museum.co.uk/>; 01293 862417.
- Greater London Industrial History Society (GLIAS):** 18:00; The Gallery, Alan Baxter Associates, 75 Cowcross Street (through the archway and in the basement at the rear of the building), Farringdon, EC1; info Tim Sidaway, [secretary@glias.org.uk](mailto:secretary@glias.org.uk); [www.glias.org.uk](http://www.glias.org.uk).
- Greenwich Industrial History Society:** 19:30, £1; Old Bakehouse, rear of Age Exchange Centre, opp Blackheath Stn, Bennett Park, 11 Blackheath Village SE3 9LA; no parking; <http://greenwichindustrialhistory.blogspot.com>.
- Hampshire Industrial Archaeology Society (HIAS):** 19:45, free; Underhill Centre, St. John's Road, Hedge End, Hants SO30 4AF; [www.hias.org.uk](http://www.hias.org.uk); 01962 855200.
- Honeywood Museum Friends:** 19:30, £5.0; [www.friendsofhoneywood.co.uk](http://www.friendsofhoneywood.co.uk).
- Honeywood Museum:** open Wed-Fri 11:00-17:00, Sat-Sun, BH Mon 10:00-17:00, free; Honeywood Walk, Carshalton SM6 3NX.
- Inland Waterways Association (IWA):** £10/£8; no prior booking required; [www.waterways.org.uk](http://www.waterways.org.uk); 0203 612 9624.
- Kempton Steam Museum:** 10:30-16:00, £7/£6; Snakey Lane, off elevated section of A316, Hanworth, Middx; entrance TW13 7ND; [www.kemptonsteam.org](http://www.kemptonsteam.org); 01932 765328.
- Kirkaldy Testing Museum:** First Sunday of Every Month 11:00-17:00; £5/£4; 99 Southwark Street, London SE1 0JF; [www.testingmuseum.org.uk/](http://www.testingmuseum.org.uk/).
- Lambeth Local History Forum:** [www.lambethlocalhistoryforum.org.uk/](http://www.lambethlocalhistoryforum.org.uk/).
- Leatherhead & District Local History Society (LDLHS):** meetings 20:00; £2; The Institute, 67 High Street, Leatherhead KT22 8AH; [www.leatherheadlocalhistory.org.uk](http://www.leatherheadlocalhistory.org.uk).  
Leatherhead Museum: Hampton Cottage, 64 Church Street, Leatherhead, Surrey, KT22 8DP; 01372 386348.
- London Bus Museum:** see Brooklands.
- London Canal Museum:** Open 10:00-16:30; Talks 19:30, £4/£3; 12/13 New Wharf Road, London N1 9RT; [www.canalmuseum.org.uk](http://www.canalmuseum.org.uk); 0207 713 0836.
- London Museum of Water and Steam:** Green Dragon Lane, Brentford, Middx TW8 0EN; [www.waterandsteam.org.uk](http://www.waterandsteam.org.uk); 020 8568 4757.
- Loughton & District Historical Society:** Methodist Church, Loughton High Road; 20:00 2nd Thursday of the month, visitors welcome, £2.50; [www.loughtonhistoricalsociety.org.uk](http://www.loughtonhistoricalsociety.org.uk).
- Lowfield Heath Windmill:** (14:00-17:00?), free/donation; Russ Hill, Charlwood RH6 0EL (TQ 235 408). [www.lowfieldheathwindmill.co.uk/](http://www.lowfieldheathwindmill.co.uk/), 01403 272664.
- Mapledurham, Watermill:** tour £10, cream tea £6.50; Tues, Weds, Thurs afternoons; Mapledurham, Reading RG4 7TR; [www.mapledurhamwatermill.co.uk](http://www.mapledurhamwatermill.co.uk); mill and tearoom open for pre-booked guided tours only 07843 742833, [enquiries@mapledurhamwatermill.co.uk](mailto:enquiries@mapledurhamwatermill.co.uk)
- Museum of London Docklands:** Mon-Sun: 10:00-18:00; no.1 Warehouse, West India Quay, London E14 4AL; [www.museumoflondon.org.uk/docklands](http://www.museumoflondon.org.uk/docklands), [info.docklands@museumoflondon.org.uk](mailto:info.docklands@museumoflondon.org.uk), 020 7001 9844.
- Newcomen Society Birmingham:** Thinktank, (Birmingham Science Museum), Millennium Point, Aston University, Curzon Street, Birmingham, W Midlands B4 7XG
- Newcomen Society London:** 17:45, free; <http://newcomen.com>; new venue - The Dana Studio, The Dana Centre, 165 Queens Gate, London SW7 5HD.
- Newcomen Society Portsmouth:** 18:30; free; Portland Building, University of Portsmouth, Saint James's Street, ~Portsmouth PO1; <http://newcomen.com>.
- Postal Museum:** 15-20 Phoenix Place, London WC1X 0DA; open 10:00-17:00; exhibition only £11/£9; exhibition + Mail Rail ride £17.05/£15.40 (booking advised); [www.postalmuseum.org](http://www.postalmuseum.org), 0300 0300 700.
- Portsmouth Historic Dockyard :** 10:00-17:30, site ticket, annual £28/£26; HM Naval Base, Portsmouth PO1 3LJ; [www.historicdockyard.co.uk](http://www.historicdockyard.co.uk); 02392 728060.
- Railway and Canal Historical Society :** 18:30, free? The Rugby Tavern, Rugby Street, London WC1N 3ES; [www.rchs.org.uk](http://www.rchs.org.uk).
- Royal Gunpowder Mills Waltham Abbey:** 10:00-17:00; school holidays; £10.50/£9; Beaulieu Drive, Waltham Abbey, Essex EN9 1JY, 01992 707 350.
- Rural Life Centre:** open Summer Wed-Sun 10:00-17:00 + Bank Holiday Mondays, Winter Wed/Sun 10:00-16:00; £8-50/£7-50; Old Kiln Museum, Reeds Road, Tilford, Farnham, Sy GU10 2DL; [www.rural-life.org.uk](http://www.rural-life.org.uk); 01252 795571.
- STEAM - Museum of the Great Western Railway:** 10:00-16:00, £8/£6-50; Kemble Drive, Swindon SN2 2TA; [www.steam-museum.org.uk](http://www.steam-museum.org.uk); 01793 466 646.
- Subterranea Britannica:** [www.subbrit.org.uk](http://www.subbrit.org.uk).
- Sussex Industrial Archaeological Society (SIAS) :** [www.sussexias.co.uk](http://www.sussexias.co.uk).
- Wandle Industrial Museum:** £0.50; Wednesdays 13:00-16:00, Sundays 14:00-17:00; The Vestry Hall Annexe, London Road, Mitcham, CR4 3UD; no parking; 020 8648 0127, [www.wandle.org/](http://www.wandle.org/).
- Watercress Line, Mid Hants Railway:** all day travel £14, free on non-running days; Station Rd, Alresford, Hants SO24 9JG; (or Station Rd, Alton, Hants GU34 2PZ); [www.watercressline.co.uk](http://www.watercressline.co.uk); 01962 733810.
- Weald & Downland Living Museum,** £13/£12; Summer 10:30-18:00; Singleton, Chichester, West Sussex PO18 0EU; [www.wealddown.co.uk](http://www.wealddown.co.uk); 01243 811348.
- Wey & Arun Canal Trust:** The Granary, Fritchfold Farm, Loxwood, Billingshurst W Sussex, RH14 0RH; [office@weyandarun.co.uk](mailto:office@weyandarun.co.uk); 01403 752403; (Mon - Fri 09:30-13:30)

## Obituary

### Alan Godfrey Crocker

(6 Oct 1935 - 22 Jun 2018)

It is with much sadness that I have to inform members that Prof. Alan Crocker died at home on 22 June and that a service was held in his memory at Guildford Crematorium on 9 July 2018.

Alan was a dedicated researcher all his life, whether researching into physics or history. After graduating from Imperial College with a degree in Mathematics he studied for his Doctorate in Crystallography at Sheffield University. Alan then went on to lecture at Battersea Polytechnic Institute before moving to Surrey with the college, which became Surrey University in 1966.

I first met Alan about 20 years ago when I attended a series of lectures run by the Surrey Industrial History Group. Alan was at the time not only president of the group but also President of the Surrey Archaeology Society. Alan also held numerous other pivotal positions such as Chairman of the Surrey Local History Committee and Chairman of the Godalming Water Turbine Trust. Not to mention his active involvement with various mills, gunpowder and paper making research groups.

Although a former president of the Archaeological Society Alan was more likely to be found in a library than in a muddy field, however having said that, there are plenty of photographs on record of Alan standing next to some large artefact in a muddy field be it a mill stone, turbine or a water wheel.

In 1983 the Surrey Industrial History Group decided to award an annual conservation award and it was Alan who after some reflection suggested in 2007 it would be nice to publish a booklet featuring the first 25 years of these awards. As the President of SIHG, Alan is shown in the booklet presenting many of these cast aluminium plaques.

Another of Alan's projects was the Tillingbourne Valley, where remains of paper mills and a gunpowder factory are to be found. Alan often led walks along the valley and one of the tales he liked to relate was a quote from William Cobbett on the second of his rural rides in the autumn of 1822:

*This valley, which seems to have been created by a bountiful providence, as one of the choicest retreats of man, which seems formed for a scene of innocence and happiness, has been, by ungrateful man, so perverted as to make it instrumental in effecting two of the most damnable of purposes; in carrying into execution two of the most damnable inventions that ever sprang from the minds of man under the influence of devil! Namely, the making of gunpowder and of banknotes!*

Alan and Gleny's book published in 2000 and aptly titled "Damnable Inventions" brought together two of Alan's many interests, gunpowder and papermaking. While I have never witnessed Alan making gunpowder he gave award winning demonstrations of paper making. Alan would wear his famous paper hat and playing the roll of the Vatman dip his mould into the warm pulp before switching to the role of the Coucher who inverted the mould in order to turn out the paper onto a felt sheet. Alan would explain the process and inform his audience that the pulp, which could be made from rags, was called Stuff and no doubt if the pulp was of the correct consistency it was the right stuff.

I would therefore like to leave you with the thought that Alan, like his handmade paper, was undoubtedly made of the right stuff and will be sadly missed by us all.

Bob Bryson (Chairman SIHG)

## Mystery Underground Brick Chamber *by Bob Bryson*

Occasionally people contact SIHG because they have found some apparently old structure when out on a walk, or even in their own garden. Recently we were contacted by a lady who was levelling the lawn in her back garden when a hole began to appear. Further investigation revealed that the hole led into a hollow brick structure of 8 to 10 ft in diameter with a domed top. At this stage we were invited to view the structure to see if we could suggest why it had been built. When Jan Spencer and I arrived on site we observed that the original entrance to the chamber had been replaced with a layer of concrete. The type of reinforcing rod used had me fooled for a while, until I realised that it was most probably an old iron bed head that had been laid across the hole at the top of the dome. The bed head had then been covered with various small pieces of sheet metal and concrete placed on top. It was part of this concrete which had given way together with a couple of courses of brickwork to leave a gap of about 4 ft x 3 ft. The depth of the pit was indeterminate as it was filled with rubble to within about 2 ft of the top and no pipes coming into the tank were visible.

Before visiting the cottage I had a number of ideas as to what the underground structure could be. Some form of water storage seemed most likely, be it a septic tank, a cess pit, a soak away or a fresh water cistern. More elaborate explanations could include an ice pit or even a hideout for a second world war Auxiliary Unit (or British Resistance Organisation). An industrial use had been suggested by the owner as the property was not far from a known glass producing area but this seems less likely given the rural setting, the lack of evidence of any burning or extensive debris and also the fact that access would only have been possible from the top making loading and unloading of a kiln for example not very practical.

The cottage was one of a row of cottages built prior to 1871 (shown on 1871 OS map) possibly as workers cottages for the nearby Manor Farm, which is now a grade 2 listed building. The location was very rural, at the end of an unmade road near the Surrey/ Sussex border. In the front garden the cottage has a disused well and a modern septic tank

### Auxiliary Unit Hideout

The young boy in me was naturally hoping we had stumbled upon a WWII Auxiliary Unit hideout. These hideouts were to be used in the event of an invasion. They were well-hidden and purpose-built to house a patrol along with the necessary food, water, ammunition and explosives. In nearby Sussex there were 23 patrols, the smallest consisted of four men and the largest eight. Unfortunately our hole in the ground was far too small and in the wrong location; Auxiliary Unit hideouts being typical concealed in woodland.

### Ice House or Ice Well

I have heard of ice houses but apparently in the days before refrigeration many estates had an ice well. Generally this would be a brick-lined pit in the ground with a domed roof to control the circulation of air. It was often sited under trees and some way from the house. There would be some form of drainage at the bottom and the ice packed between layers of straw. The ice would be cut from nearby ponds/lakes or could be bought. (Incidentally ice for commercial purposes was imported from Norway between 1820 and 1921 and from America in the 1840s).

At least 2,500 ice houses are known to still exist in Britain. Speaking to Rod Martin of the Sussex Industrial Archaeological Society he confirms that such ice wells, without a side door, are less common and not as practical as conventional ice houses. He lists an example in Sussex at Stanner House in Brighton and even here he suggests that the ice well may have been used for some other purpose before being used to store ice.

The fact that the pit in question was lined with mortar to give a smooth finish is suggestive of an ice house or ice well. It was important to have smooth walls to prevent the ice sticking to the brickwork and creating voids in the ice which would cause the ice to melt more quickly.



Outside and Inside the Mystery Underground Chamber.

However the ground around the structure we were looking at was flat and likely to flood meaning that draining water from the bottom of the pit would be virtually impossible. Also the area was not, and did not look as if it had been wooded to provide the necessary shade. Neither was the brickwork double skinned to provide additional insulation as is often found. On balance therefore, especially because of the drainage issue, the view that the structure was an ice well associated with the nearby Manor House has been rejected.

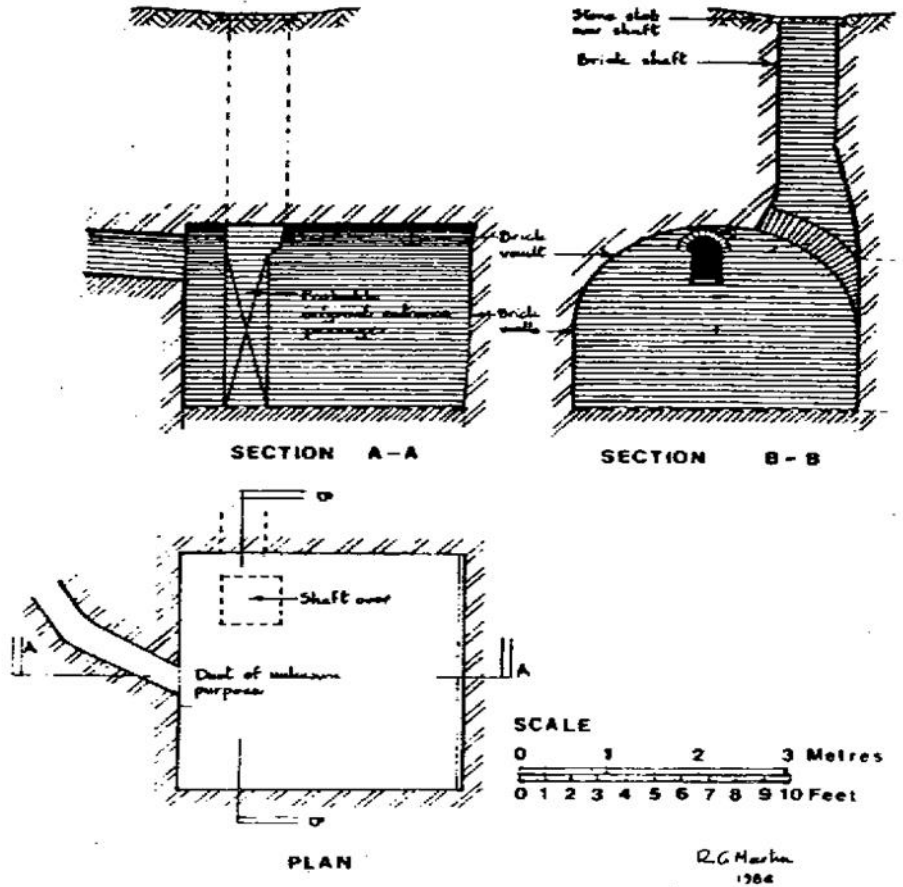
**Cess Pit or Septic Tank**

The idea of a septic tank, whereby the water is drained off leaving the organic matter to decay over time is not as old as you may expect. The history of septic tanks can be traced back to 1860, when it is widely believed that the septic tank was invented by John Mouras, a Frenchman, who had the idea of storing waste instead of instantly disposing it. He applied for a patent in 1881. Regardless of the fact that our pit would appear to date from the building of the house prior to the introduction of septic tanks I believe the structure was not any form of cesspit or soak away simply on the grounds that it was mortar lined to prevent water seeping through the sides.

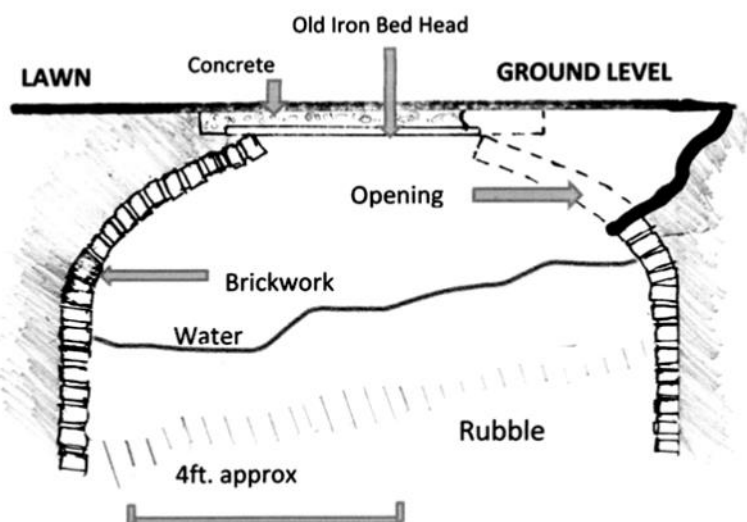
**Rain Water Cistern**

At the time the cottage was built few houses had a piped water supply, so it was important for properties to have their own water supply. Sinking a well was the usually the first building operation undertaken before the foundations were laid. The circular shafts with a minimum diameter of three feet were lined with brickwork and most were no deeper than thirty feet, the maximum depth at which a common iron suction pump could function. Where possible the well was dug close to the proposed site of the scullery or kitchen. Spring water was usually relatively pure and safe to drink but it was often hard and not suited to laundering purposes as it caused soap to curdle. So for doing the weekly wash and for other scullery uses rainwater was often used. Rainwater could also be used if the spring water supply was intermittent.

**STANMER HOUSE  
ICE HOUSE NO 1.**



**Underground Structure**



An average sized roof yielded between 21,000 and 35,000 gallons of water per year and so many 18th century houses were supplied with large rainwater storage tanks. Using the roof as a rain collection surface, gutters and downspouts delivered water to the cistern from which the water was drawn by a hand pump.

These cisterns were commonly circular structures made of brick ranging from 6 to 10 feet in diameter and 7 to 12 feet deep. For the most part, cisterns are easy to distinguish from privies and wells because they are lined with concrete, mortar or other sealants to prevent water from seeping through the sides. Many, like our example, are not as low as the water table so could not function as wells. I therefore conclude that the most likely explanation is that the structure we saw was a rain water cistern. Why it was not immediately adjacent to the house is a question, but it could be that it was shared by all the properties in the terrace. Such cisterns were often associated with greenhouses and rather tantalisingly later (1934) OS maps appear to show a row of buildings behind the cottages which may or may not have been a row of greenhouses.

I don't think the Manor house is near enough to have figured in any of the above; unless the ice well suggestion is followed. I do however believe that ownership of all the cottages could have justified a water system being installed which a single cottage owner may not have been able to afford.

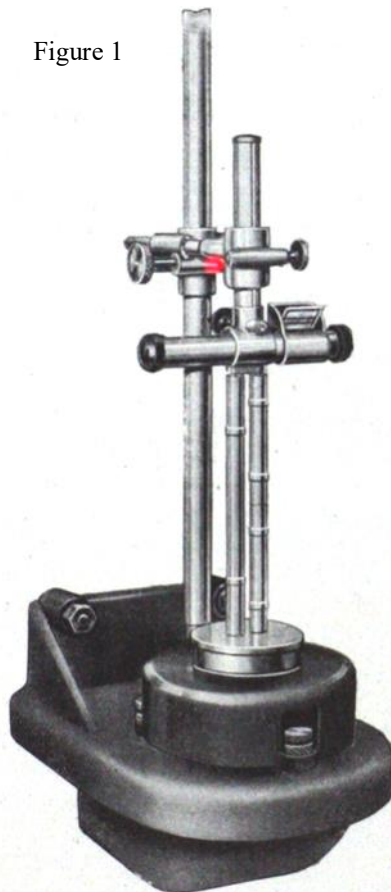
*Note: In these days of increased security awareness I have deliberately withheld the names of the owners and the exact location of the property.*

### Pitter Gauge and Precision Tool Co Ltd by Norma Cox

I first came across the name of the Pitter Gauge and Precision Tool Co Ltd while I was researching the work of George Blay. He was a timber merchant and fencing contractor in New Malden in 1909 and later became a property developer. After WWI he worked with the council in Raynes Park SW20, to build pleasant houses on the Cannon Hill estate, the land that he owned. Sadly he died very suddenly in 1936 from a stroke (1). From his obituary it mentioned that he was the Managing Director of the Pitter Gauge and Precision Tool Co Ltd Woolwich. A representative of the Pitter Gauge and Precision Tool Co Ltd, Mr A E Hooker attended George Blay’s funeral (2).

According to the concise Oxford dictionary, the noun ‘gauge’ is defined as “a standard measure to which things must conform, esp. measure of capacity or contents of barrel, fineness of textile, diameter of bullet or thickness of sheet metal” (3). The Grace’s Guide website gave some useful information about the Pitter Gauge and Precision Tool Company Ltd (4). Firstly, it gave two addresses for the company, one address was 49 Kingston Road, Leatherhead and the other was Upper Market Street, Woolwich (5). Secondly, the Grace’s Guide website listed several references for the *Engineer*, a journal, for the years 1923 to 1946 (6). In the 1923 October *Engineer*, it described the use of Pitter’s Gauge and Precision Tool Co Ltd Generator Comparator, a tool which would measure with a very high degree of accuracy in steps of 0.00001 inch by comparing the lengths of gauges. This Generator Comparator was devised at the National Physical Laboratory by Messrs A J C Brookes (who had joined the Pitter Gauge and Precision Tool Co Ltd) and S E Sears, together with the Department of Scientific and Industrial Research (7). A photograph of the Generator Comparator is given in Figure 1 (8). The Generator Comparator was featured in a Shipping, Engineering and Machinery Exhibition at Olympia in 1923. Another Grace’s Guide reference was *the Aeroplane directory of Aviation and Allied Industries 1937*, which gave contact details of the Pitter Gauge and Precision Tool Co Ltd Woolwich and listed the company under the section ‘gauges and branded trade names’ (9). The Pitter company’s branded trade name was ‘P V E’ which is shown in both of the adverts in Figures 2 and 3, these adverts also show the Leatherhead address. The Grace’s Guide site had dated these adverts as June 1944 and March 1946 respectively. The branded name of ‘P V E’ may represent “Precision Ventilation Engineering” (10). From these two sources it suggests that Pitters Gauges and Precision Tools were used in Aeronautical and Ship-Building engineering.

Figure 1



Greenwich Heritage Centre had useful information on the Pitter Gauge and Precision Tool Company Limited. A pamphlet on ‘*Industries of Woolwich*’ published by Woolwich Borough Council mentioned how extremely accurate the Pitter Gauge and Precision Tool Co Ltd could manufacture their precision machines, which enabled a difference of a millionth of an inch to be clearly seen with the naked eye. A machine was described which had been made to the design of the National Physical Laboratory, it was known as the Eden Rolt Millionth Comparator, it is seen in Figure 4 (11). The prime purpose of this machine was to accurately determine the amount of wear which had occurred on an individual slip gauge. Slip gauges with the P V E trade mark are shown in Figure 5 (12) the slip gauges made by the Pitter Gauge and Precision Tool Co Ltd are displayed in a handsome laminated plastic case. P V E slip gauges were offered in four accuracies: Workshop, Inspection, Calibration (in NPL Cert) and Reference.. Slip gauges which had worn to an excessive degree could be reconditioned and recalibrated (ie resurfaced and slightly reduced in size).

The new size of slip gauge being recorded on the calibration chart, which always remained with such a set, or to replace the slip gauge with by an entirely new one, should it be too worn. The maximum amount of wear that Pitter Gauge and Precision Tool Co Ltd recommended, which would be the cause of a replacement was 30 millionths of an inch (0.00003 inch). The Eden Rolt Millionth Comparator used a black spider’s (*Oedithorax fuscus*) web as the vertical scale marker.

From the *English Heritage Survey of London Vol 48 Woolwich* (13) “The Pitter Gauge and Precision Tool Co Ltd was previously known as the Pitter Ventilation and Engineering Co company and it developed in Woolwich in 1914 on the site of a timber yard occupied by Thomas Smith in the 1840s. This land was between Upper Market Street (later known as 23 Market Street) and John Wilson Street. The Pitter Gauge and Precision Tool Co Ltd factory was not affected by the bombing of WW2 (14). The Pitter Gauge and Precision Co Ltd was also mentioned in a Woolwich Trade directory of 1955-56 (15). The company Pitter

Figure 2 below, Figure 3 bottom

MAKERS OF SLIP GAUGES, LENGTH BARS, SCREW, PLUG AND SPECIAL GAUGES, PRECISION MEASURING APPLIANCES OF ALL KINDS.  
**PITTER GAUGE & PRECISION TOOL Co., LTD.**  
 49, KINGSTON ROAD, LEATHERHEAD, SURREY & WOOLWICH, S.E.18

MAKERS OF SLIP GAUGES, LENGTH BARS, SCREW, PLUG AND SPECIAL GAUGES, PRECISION MEASURING APPLIANCES OF ALL KINDS.  
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 49, KINGSTON ROAD, LEATHERHEAD, SURREY & WOOLWICH, S.E.18

Gauge and Precision Tool Co Ltd continued in business up to 1970 when industry in Woolwich collapsed (16). Today the site is occupied by 31 informally grouped houses known as Jim Bradley Close (17).

The Leatherhead address of the Pitter Gauge and Precision Tool Co Ltd as given in the Grace's Guide site however could not be found in several Surrey reference sources. It was not mentioned in Peter Tarplee's "A guide to the Industrial History of the Mole Valley District" (18). It was not mentioned in Glynis Crocker's "Surrey's Industrial Past" (19). There wasn't any information at the Surrey History Centre on Pitter Gauge and Precision Tool Co Ltd in the *Leatherhead town guides for 1949 and 1950* (20). There was no mention of the Pitter Gauge and Precision Tool Co Ltd in Leatherhead in the *Kelly's Directories of Dorking, Leatherhead, Ashted and district for 1936 or 1950* (21). Similarly there was no mention in *Kelly's Directory of Epsom, Leatherhead and district for 1940*. There was a business at number 49 Kingston Road Leatherhead in the *Kelly's Epsom, Leatherhead and district directory 1940*. It was the address of a company Thomas Norman & Son Ltd, wholesale paper merchants (22). Pitter Gauge and Precision Tool Co Ltd was not mentioned at Leatherhead Museum (23) and it was not in the *Proceedings of the Leatherhead and District Local History Society*; these journals are held at Leatherhead museum (24).

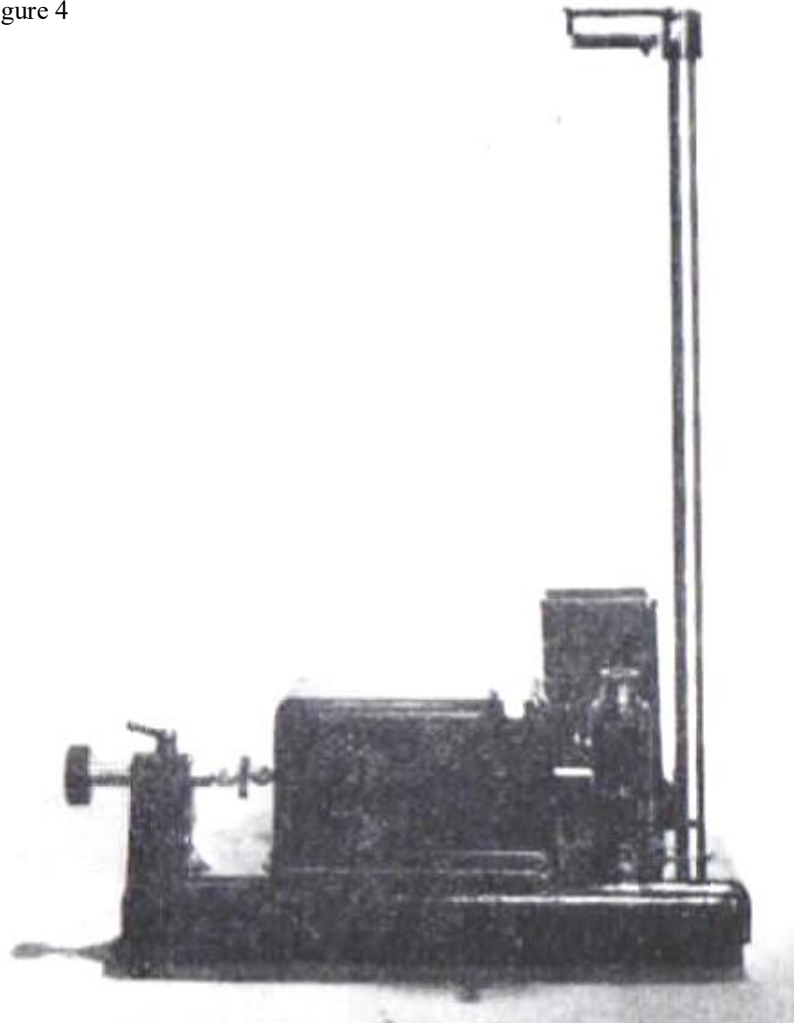
A walk along Kingston Road, Leatherhead today reveals number 49 within the site of a modern gated business park at 41-51 Kingston Road, Leatherhead. The site is called Kings Court and the information board inside the gate indicates that a few companies are based there (25). Studying the old maps website and using the Leatherhead postcode of the present day Kings Court KT22 7SL, it revealed the site was un-built on in 1869. By 1896 a large semi-detached house was built there and this remained basically the same until the 1963-1973 map (the south side house had been extended). By 1963-1973 a works building is shown at the end of the rear gardens of the semi-detached building (26). The site therefore had an industrial past.

It is a pity that there doesn't appear to be any documented evidence for the Leatherhead site of the Pitter Gauge and Precision Tool Co Ltd other than the two adverts from 1944 and 1946. More information from trade directories would have helped but it is possible that the paper shortage in WW2 stopped production of these directories. The paper shortage may have brought the business of Thomas Norman & Son at 49 Kingston Road Leatherhead in 1940 to a quick end. It may be that Pitter Gauge and Precision Tool Co Ltd only lasted from 1944-1946 at the Leatherhead address. Without the necessary evidence it is rather difficult to feel confident that the Pitter Gauge and Precision Tool Co Ltd was actually located in Leatherhead. The Pitter Gauge and Precision Tool Co Ltd trade mark was P V E. This stood for 'Pro Veritate Exacta' meaning 'the exact truth' (27). □

#### Endnotes and References.

- (1) Cox, Norma. George Blay the Raynes Park Housebuilder. *The Bulletin. Merton Historical Society*. March 2018:16-20.
- (2) Obituary of George Blay. *Surrey Comet*. July 1936.

Figure 4



(3) Definition of gauge. *The Concise Oxford Dictionary of Current English*. 7th edn. Clarendon Press, Bath. 1982

(4) [www.gracesguide.co.uk/Pitter\\_Gauge\\_and\\_Precision\\_Tool\\_Co](http://www.gracesguide.co.uk/Pitter_Gauge_and_Precision_Tool_Co). Accessed 2nd May 2018.

(5) Two addresses of Pitter Gauge and Precision Tool Co Ltd. See note 4.

(6) References for *The Engineer*. 1923-1946. See note 4.

(7) The Shipping, Engineering and Machinery Exhibition No VI. *The Engineer*. 1923; 5<sup>th</sup> October : 363.

(8) Photograph of the Generator Comparator. See note 4.

(9) Compiled by the staff of the Aeroplane 2nd Edn. *The Aeroplane directory of the Aviation and Allied Industries*. London. 1937 See note 4.

(10) Advertisements for Pitters Gauge and Precision Tool Co Ltd showing the branded name 'P V E', the Leatherhead address and P V E Slip gauges. See note 4

(11) Photograph of the Eden Rolt Millionth Comparator, Pitter Gauge and Precision Tool Co Ltd. Pamphlet: *Industries of Woolwich*. Woolwich Borough Council. Greenwich Heritage Centre.

(12) Slip gauges by the Pitter Gauge and Precision Tool Co Ltd in a laminated plastic case See note 11.

(13) Foundation of Pitter Ventilation Company. *English Heritage Survey of London Vol 48 Woolwich*. Personal Communication from Jonathan Pilkington. Greenwich Heritage Centre. 1<sup>st</sup> May 2018.





**Diary August 2018**

- 1 Wed - 3 October Michelham Priory Watermill: open most afternoons.
- 1 Wed - until end September Mapledurham Watermill & Turbine: Tue/Wed/Thu Afternoons Tours; £10.00 + Cream Tea £6.50; (minimum of 30 People).
- 1 Wed - 24th Brooklands Museum: Summer Holiday Activities and Car Rides, (Car rides Mon – Thurs only).
- 1 Wed London Museum of Water & Steam: Waterworks railway in steam.
- 2 Thu London Canal Museum: Guided towpath walk to Camden Town departing at 18:30.
- 3 Fri - 5 Sun Gatwick Aviation Museum: Open Days; 09:30-16:30; £7.50.
- 4 Sat - 5 Sun Great Bucks Steam & Country Fair: 25 Engines; £7/£6; open 09:30; Ickford Rd, Shabbington, Aylesbury, Bucks HP18 9HF.
- 4 Sat - 5 Sun London Museum of Water & Steam: Rotative water pumping engines and Waterworks Railway.
- 4 Sat IWA: Guided Waterside Walk - the Queen Elizabeth Olympic Park & Bow Back Rivers & Carpenters Road Lock, start: at 10:45 outside Stratford station (by 'Newham London' sign). £10/£8; no prior booking.
- 4 Sat - 5 Sun Chatham Historic Dockyard: Railway Weekend.
- 5 Sun Brooklands Museum: Rover P6 Annual Show, Paddock displays.
- 5 Sun Twyford Waterworks: Open Day - the 1906 Babcock and Wilcox water tube boiler and 1914 Hathorn Davey triple expansion steam pumping engine are now back in steam.
- 5 Sun London Museum of Water & Steam: Rotative water pumping engines and Waterworks Railway
- 5 Sun IWA: Guided Towpath Walk along the Regent's Canal: King's Cross – Granary Square - Camden, start: at 14:30 outside King's Cross tube station (taxi rank); £10/£8; no prior booking required.
- 5 Sun Old Kiln Light Railway at Rural Life Centre, The railway operates a diesel service for visitors most Sundays, during the Rural Life Centre's main opening season. Steam is usually reserved for the more popular special events, all dates are subject to change with regards to locomotive or volunteer availability; train fares are an additional £2.
- 5 Sun Croydon Airport: Visitor Centre Open Day - Guided tours are available which last approximately 45 minutes. Abbreviated versions available for parties with young children.

*Venues, Times & Contacts are on page 3.*

**Diary August 2018**

- 6 Mon Hampshire IAS: The Queen Mary before and after the war by Stephen Hoadley at 19:45.
- 8 Wed London Museum of Water & Steam: Waterworks Railway,
- 9 Thu London Canal Museum: Tunnel Boat Trips - Thursday guided trips through the ¾ mile long Islington tunnel from the museum and back, 50 minutes; departures 11:30 12:30 14:00, 15:00; £9, incl. museum entry.
- 11 Sat Reigate Caves: Wealden Cave & Mine Society open day; 10:00-16:00; no need to book in advance.
- 11 Sat STEAM - Museum of the Great Western Railway: Meet the Railway Workers.
- 11 Sat - 12 Sun London Museum of Water & Steam: Waterworks railway.
- 11 Sat - 12 Sun Brixton Windmill: book online <http://brixtonindmill.org/visit> for full tours, 14:00-16:30, ours last 40 minutes; booking is not required for short tours, children need to be able to climb the stairs unaided.
- 12 Sun Brooklands Museum: Brooklands Reunion - action on Mercedes-Benz World Circuit & Test Hill.
- 12 Sun Coombe Conduit: Coombe Lane West, Kingston upon Thames, London KT2 7HG; 14:00-16:00.
- 12 Sun Elsecar 1795 Newcomen Engine: Demonstrations at the New Colliery; the oldest steam engine in the world that's still in its original location – explore inside the Engine House and peer down its original mineshaft. Demonstrations at 12:00, 13:00 & 14:00. Free, donations welcome; Elsecar Heritage Centre, Wath Road, Elsecar, Barnsley S74 8HJ; 01226 740203, [www.elsecar-heritage.com](http://www.elsecar-heritage.com).
- 12 Sun London Canal Museum: Tunnel Boat Trips, Sunday guided trips through the ¾ long Islington tunnel from the museum and back, 50 minutes, departs 11:00 12:00 14:00 15:00, 16:00; £9, child £6 incl. museum entry.
- 15 Wed London Museum of Water & Steam: Waterworks Railway
- 15 Wed River Thames Society: Explore the Thames Path in London with the RTS Chairman; meet at 11:00, Imperial Wharf Station; lunch en route, duration to be agreed on the day; info from Peter Finch [sailor1057@aol.com](mailto:sailor1057@aol.com), 07711 419772; £3 donation, no need to book.

*Venues, Times & Contacts are on page 3.*

**Recording Factory Closures**

A good opportunity to record the history & to rescue traditional papers & machinery! *If you hear of a factory which is about to close, please report it to us; contacts on page 13.*

**Diary August 2018**

- 18 Sat – 19 Sun Weald & Downland Living Museum: Vintage & Steam show.
- 18 Sat - Sun 19 London Museum of Water & Steam: Rotative water pumping engines and Waterworks Railway.
- 18 Sat Royal Gunpowder Mills Waltham Abbey: Walking Tours; book at [www.invitationtoview.co.uk/properties/royal-gunpowder-mills/](http://www.invitationtoview.co.uk/properties/royal-gunpowder-mills/).
- 19 Sun IWA: Guided Towpath Walk along the Grand Union Canal - Little Venice and Paddington Green. Start: at 2.30pm, outside Paddington station, Bakerloo line Praed Street exit; £10/£8; no prior booking required.
- 19 Sun Bursledon Brickworks: Vehicles at The Brickworks - Steam-Up + Meccano
- 23 Thu - 27 Mon Great Dorset Steam Fair: 230 Engines; South Down, Tarrant Hinton, nr. Blandford, Dorset DT11 8HX.; £22 (advance booked £17.50).
- 23 Thu London Canal Museum: Tunnel Boat Trips, see 9 Aug Thursday.
- 25 Sat - 26 Sun Brooklands Museum at Dunsfold Park: Wings & Wheels.
- 25 Sat - 27 Mon Festival of Transport Hellingly: (43rd year); 20 Engines; Broad Farm, Hellingly, East Sussex BN27 4DU.
- 25 Sat - 27 Mon Weald & Downland Living Museum: Rural Life Weekend - Charcoal & Woodyard working.
- 25 Sat STEAM - Museum of the Great Western Railway: Meet the Railway Workers.
- 25 Sat - Mon 27 London Museum of Water & Steam: Bank Holiday Steam Up.
- 26 Sun Elsecar 1795 Newcomen Engine: Demonstrations, see Aug 12 Sunday.
- 26 Sun London Canal Museum: Tunnel Boat Trips, see Aug 12 Sunday.
- 28 Tue Kempton Steam Museum: Open Day; Triple not in steam.
- 30 Thu Kempton Steam Museum; Open Day Triple not in steam
- 31 Fri – 5 Wed Sept Association for Industrial Archaeology: Annual Conference ‘Steaming Ahead: research strategies and research frameworks in Industrial Archaeology’ University of Nottingham; £142 (residential £232), days pro rata; book at <https://industrial-archaeology.org/>.

*Venues, Times & Contacts are on page 3.*

**Diary September 2018**

- 1 Sat Brooklands Museum: TVR Pre '80s Day: Test Hill in action, Displays.
- 1 Sat - Sun 2 London Museum of Water & Steam: Rotative water pumping engines and Waterworks Railway.
- 2 Sun Brooklands Museum: All American Day - Paddock displays.
- 2 Sun Twyford Waterworks: Open Day.
- 2 Sun IWA: Guided Waterside Walk - Limehouse, Thames, & Docklands; start at 14:30 outside Westferry DLR station (by the Cycle Hire Point); £10/£8; no prior booking required.
- 2 Sun Croydon Airport: Visitor Centre Open Day.
- 3 Mon Hampshire IAS: Aspects of Military Archaeology in the Ridgeway Region by Don Summers.
- 5 Wed Docklands History Group: Captain James Cook, 250 Years talk by Derek Morris; 18:00; £2 donation is suggested from visitors.
- 6 Thu - 9 Sun Heritage Open Days: Listings will be published mid-July.
- 6 Thu London Canal Museum: The Tideway Tunnel - background and update talk by Nick Tennant; 19:30 £4/£3.
- 8 Sat Reigate Caves: tours 10:00-16:00; no booking necessary; £3/£2.
- 8 Sat – 09 Sun STEAM - Museum of the Great Western Railway: Swindon Railway Festival 2018 - model railways, (Meet the Railway Workers on Saturday.).
- 8 Sat – 09 Sun Brixton Windmill, see Aug 11 Saturday.
- 9 Sun Coombe Conduit, Kingston: see August 12 Sunday.
- 9 Sun Elsecar 1795 Newcomen Engine: Demonstrations, see 12 August.
- 9 Sun London Canal Museum: Tunnel Boat Trips, see Aug 12 Sunday.
- 9 Sun Rural Life Centre: Donkey Day Out - talks, demonstrations and displays; £9/£8
- 13 Thu - 16 Sun Heritage Open Days: Listings will be published mid-July
- 13 Thu London Canal Museum: Tunnel Boat Trips, see Aug 9 Thursday.
- 14 Fri - 16 Sun Bedfordshire Steam & Country Fayre: 130 Engines; Old Warden Park, nr. Biggleswade, (Home of the Shuttleworth Collection);
- 15 Sat - 16 Sun Fernhurst Furnace: Open Weekend; 10:30-17:00; free entry & parking; from Fernhurst village, go along Vann Road; access to the site is opposite the first 'T' junction approx. 60m east along Vann Road from Lower Lodge Candles; 01428 654088, [barnes@haslemere.com](mailto:barnes@haslemere.com).

*Venues, Times & Contacts are on page 3.*

**Diary September 2018**

- 15 Sat British Brick Society: Brickworks visit - H.G. Matthews Brickworks, Chesham, Buckinghamshire Works producing hand-made bricks to traditional methods as well as machine-made bricks. Contact Mike Chapman, pinforld@freenetname.co.uk.
- 15 Sat Royal Gunpowder Mills Waltham Abbey: Walking Tour, book at [www.invitationtoview.co.uk/properties/royal-gunpowder-mills/](http://www.invitationtoview.co.uk/properties/royal-gunpowder-mills/).
- 16 Sun Brooklands Museum: Aviation Day - Aircraft Displays & Fly-in.
- 16 Sun IWA: Guided Towpath Walk along the Regent's Canal: Mile End to Limehouse, start at 14:30 outside Mile End tube station; £10/£8; no prior booking required.
- 16 Sun Rural Life Centre: Classic Vehicle Gathering - from bikes to buses, cars to camper vans.
- 17 Mon Berkshire IAG: Didcot Railway Centre talk by Ann Middleton.
- 21 Fri Essex CC: Industrial Architecture - The Development of the Factory talks by Mike Nevell and Tim Murphy. 09:30-12:30, at Cressing Temple Barns, Witham Road, Braintree, Essex, England, CM7 8PD; £69; book online at [www.placeservices.co.uk/courses](http://www.placeservices.co.uk/courses).
- 22 Sat Brooklands Museum: Historics Auction.
- 22 Sat STEAM - Museum of the Great Western Railway: Meet the Railway Workers.
- 22 Sat - 23 Sun Open House London: Programme available mid August.
- 22 Sat - 23 Sun Kempton Steam Museum: Triple in steam + railway running both days plus, on Sunday only, Kempton Classic Car & Bike Show.
- 22 Sat - 23 Sun Kempton Great Engines: Steaming Weekend + Classic Car & Bike Show (Sunday only); 10:30-18:00; £7/£6.
- 23 Sun Elsecar 1795 Newcomen Engine: Demonstrations, see 12 August.
- 23 Sun London Canal Museum: Tunnel Boat Trips, see Aug 12 Sun.
- 23 Sun Bursledon Brickworks: WW1 - the last year - steamed up and trains running.
- 25 Tue Kempton Steam Museum: Open Day, Triple not in steam.
- 27 Thu London Canal Museum: Tunnel Boat Trips, see Aug 9 Thu
- 27 Thu Kempton Steam Museum; Open Day - Triple not in steam.
- 30 Sun Brooklands Museum: Great War Day - Paddock and aircraft displays, re-enactors.

*Venues, Times & Contacts are on page 3.*

**Diary October 2018**

- 1 Mon Hampshire IAS: Northampton not Southampton: industrial heritage around a midlands county by Peter Stanier.
- 1 Mon **Surrey Industrial History Group Guildford: Brunel, Scott Russell and the Great Eastern** by Prof. Andrew Lambert, Dept of War Studies King's College London
- 4 Thu London Canal Museum: The Uttoxeter and Caldon Canals by Steve Wood. Steve will tell us about the Caldon Canal and the plans to re-open part of the Uttoxeter Canal near the head of navigation.
- 4 Thu **Surrey Industrial History Group Leatherhead:** The Merchant Navy at War Part III, including the Falklands by Richard Mellor, Maritime Shipping Rtd
- 6 Sat - 7 Sun Weald & Downland Living Museum: Autumn Countryside Show - traditional working demonstrations.
- 6 Sat Sussex IAS: The story of Crystal Palace and its transport by Ian Gledhill.
- 6 Sat STEAM - Museum of the Great Western Railway: Meet the Railway Workers
- 7 Sun Brooklands Museum: Morgan Day - Test Hill in action + Displays.
- 7 Sun Twyford Waterworks: Open Day - Autumn Rally.
- 7 Sun IWA: Guided Towpath Walk along the Regent's Canal: Little Venice to Camden, start at 14:30 outside Warwick Avenue tube station; £10/£8; no prior booking required.
- 7 Sun Croydon Airport: Open Day.
- 9 Tue **Surrey Industrial History Group Guildford:** London Underground's Edwardian Tile Patterns by Douglas Rose, London historian and information designer
- 9 Tue Greenwich IAS: The Royal Observatory and the Greenwich Generating Station by Graham Dolan; [greenwichindustrialhistory.blogspot.com/](http://greenwichindustrialhistory.blogspot.com/).
- 12 Fri Association for Industrial Archaeology: Creative Re-Use Seminar - part of the 2018 European Year of Cultural Heritage: contact Mike Nevell for further details [chairman@industrial-archaeology.org](mailto:chairman@industrial-archaeology.org).
- Brooklands Museum at Dunsfold Park: ZA150 VC10 Open Day.
- 13 Sat - 14 Sun Brixton Windmill, see Aug 11 Sat.
- 14 Sun Brooklands Museum: Autumn Motorsport Day - Action on Mercedes-Benz World Circuit & Test Hill, premium event: see website for details.
- 14 Sun Coombe Conduit: see August 12 Sunday
- 14 Sun London Canal Museum: Tunnel Boat Trips, see Aug 12 Sun.
- 14 Sun Rural Life Centre: Land Rover Day - Southern Central Vintage Agricultural Club (SCVAC).

*Venues, Times & Contacts are on page 3.*

**Diary October 2018**

- 15 Mon Berkshire IAG: AGM & Member Presentations: 19:30, St Mary's Church Hall, Castle Street, Reading RG1 7RD, [www.biag.org.uk](http://www.biag.org.uk).
- 19 Fri - 21 Sun Watercress Line - Mid Hants Railway: Autumn Steam Gala - 7822 Foxcote Manor and other guest engines.
- 20 Sat - Newcomen Society Symposium: The White Salt Industry; The Lion Salt Works Museum, Northwich, Cheshire; 09:00-17:00; details tba; for information please send your email address to: the Symposium Secretary at [meetings.north.western@newcomen.com](mailto:meetings.north.western@newcomen.com).
- 20 Sat STEAM - Museum of the Great Western Railway: Meet the Railway Workers
- 20 Sat -21 Sun Kempton Steam Museum: The Marvels of Meccano + Triple in steam and railway running both days.
- 20 Sat Royal Gunpowder Mills: Walking Tour. Royal Gunpowder Mills, Waltham Abbey; book at: [www.invitationtoview.co.uk/properties/royal-gunpowder-mills/](http://www.invitationtoview.co.uk/properties/royal-gunpowder-mills/)
- 21 Sun 2018 London Bus Museum at Brooklands: TransportFest.
- 21Sun Bursledon Brickworks: Halloween Steam Up - all resident engines and road rollers running.  
*Venues, Times & Contacts are on page 3.*

**Diary October 2018**

- 21 Sun IWA: Guided Waterside Walk along the Grand Surrey Canal, to Royal Navy Victualling Yard, then Thames Path and Greenland Dock; start at 14:30, outside Surrey Quays Station (Overground); £10/£8; no prior booking required.
- 22 Mon - 26th Brooklands Museum: Autumn Half Term Holidays Car Rides.
- 23 Tue **Surrey Industrial History Group Guildford:** R34: New York - There & Back Again - an Airship's tale by Nigel Hills, of the Airship Association.
- 23 Tue Kempton Steam Museum: Open Day, Triple not in steam
- 25 Thu Kempton Steam Museum; Open Day Triple not in steam
- 27 Sat IWA: Guided Towpath Walk along the Regent's Canal: King's Cross - Granary Square - Camden, start: at 10:45 outside King's Cross tube station (taxi rank); £10/£8; no prior booking required.
- 27 Sat - 28 Sun Ancient Technology Centre: History @Work Weekend; 10:00-16:00; £5; Tickets available on the gate on the day.
- 28 Sun London Canal Museum: Tunnel Boat Trips see Aug 12 Sun  
*Venues, Times & Contacts are on page 3.*

The deadline for **submitting copy** for the next Newsletter is  
**12 October 2018**

*Submissions are accepted in typescript, on a disc, or by email to [news@sihg.org.uk](mailto:news@sihg.org.uk).  
Anything related to IA will be considered. Priority will be given to Surrey-based or topical articles.  
Contributions will be published as soon as space is available.  
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<i>March</i>	<i>June</i>	<i>September</i>	<i>December</i>
<i>April</i>	<i>July</i>	<i>October</i>	<i>January</i>

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