

# HERITAGE OPEN DAYS REIGATE & BANSTEAD

9-18 September 2022



## ASTOUNDING INVENTIONS



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# REIGATE & BANSTEAD HERITAGE OPEN DAYS

## SEPTEMBER 2022

As President of the Reigate Society, it is my pleasure to contribute to the Heritage Open Days Brochure. It is marvellous to see so many historical sites available to visit. I have lived in and around the Reigate and Redhill area for well over half a century. I have always taken the keenest interest in how this part of the world came to develop the way it has. With the buzz of traffic and building both residential and commercial going on around us nowadays, it is easy to forget how our forebears lived and worked.

Recently I have been reading a reasonably detailed history of our two main towns. I have always been struck that in the middle of Surrey – prime commuter belt, or at least it was till the unforeseen upheavals in work practices since the pandemic arrived – there are many clues to a varied industrial past. Not far from where I live, quarrying for the local sandstone on the North Downs was very big business.

And then there are the reminders of a rich cultural life. There are some fine churches. Some of them distinctly eccentric, if you will forgive that description.

Do take a look at what is “on show”. The list is wonderfully varied. Visit as many sites as you can. I promise you will find the effort well worth it.



A stylized, handwritten signature in white ink on a blue background.

**Nicholas Owen**  
President, Reigate Society



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## Welcome From The Reigate Society

As a local resident for many years I have enjoyed the historical fabric of the area enriched by its many heritage buildings and places of interest. We really hope that you will take the opportunity this September to explore and find out more about the heritage and history of the borough and how it contributes to the living environment of today.

**Tim Lee**  
Chairman, Reigate Society



The Reigate Society is a civic society which works to preserve and improve what is best about living in this area - the green space we enjoy and the heritage assets we have inherited. We try to make sure that each generation adds something valuable for the next.

Our Architecture and Planning Committee comments on local planning applications and the Borough's Local Plan. Our Committees for Green Spaces, for Transport, and for Redhill all engage with the Council and other organisations to improve our local area.

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

Each year, we make Civic Awards to the best local development projects be they large or small.

Join with us to maintain the character and well-being of this area.

Annual subscriptions are:  
**£10 individuals.**  
**£15 households.**  
**£30 organisations.**

We thank Councillors Lewanski, Paul and Harrison for their generous support to finance this brochure.

It is my pleasure to welcome visitors to Heritage Open Day 2022. After a difficult couple of years for many, it's wonderful to be able to invite our residents to the Town Hall for a free look behind the scenes of this historic building.

Guided tours of the Town Hall will take place on Saturday 10 September from 10am and are free but we are asking visitors to pre-book in advance via Event Brite.

<https://www.eventbrite.co.uk/e/heritage-open-day-tickets-390304801167>

I look forward to meeting as many of you as possible and have the opportunity to show you around the Town Hall and share details of its fascinating past.

For further details about Heritage Open Day please contact [mayor@reigate-banstead.gov.uk](mailto:mayor@reigate-banstead.gov.uk)

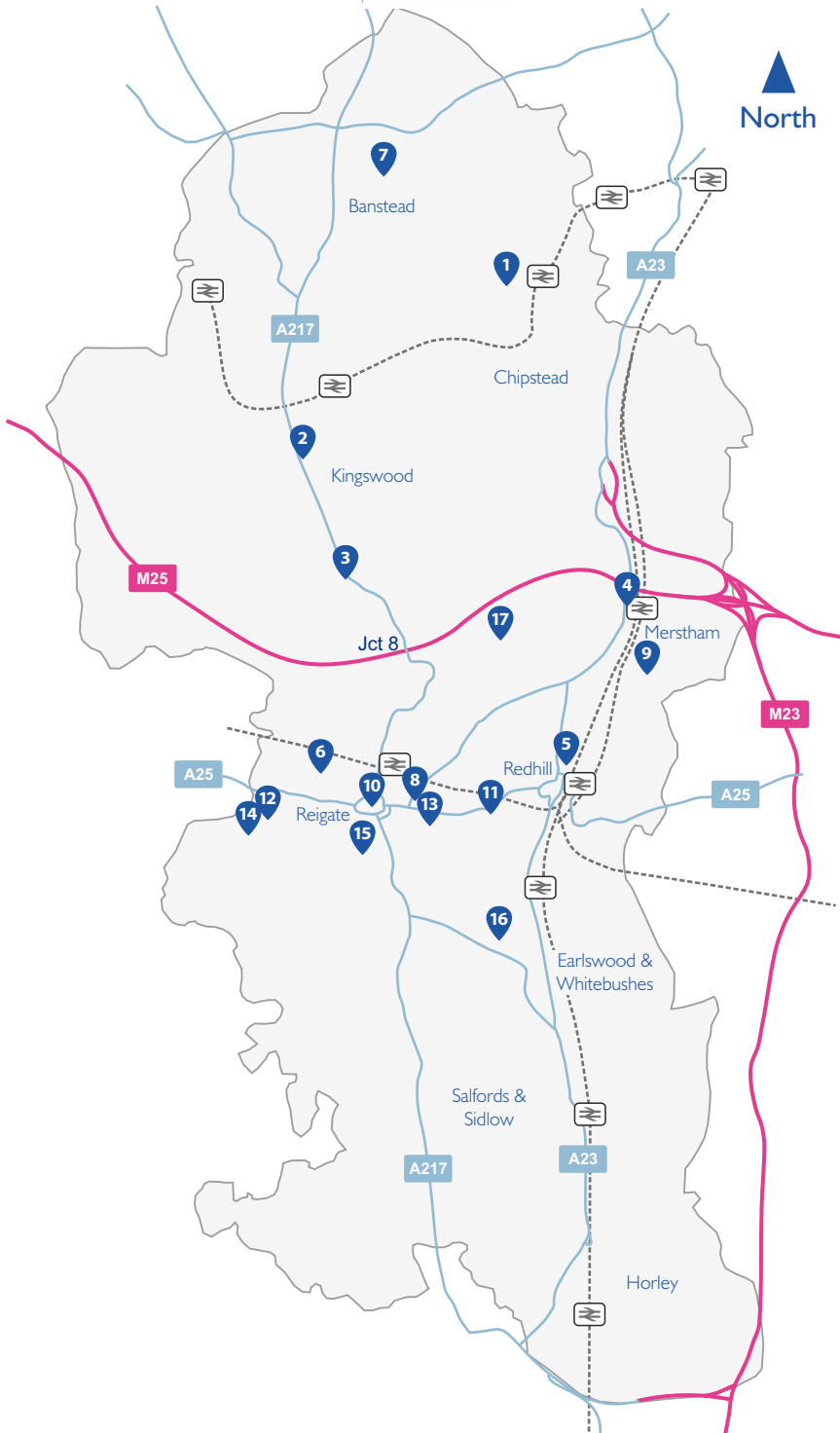


**Cllr Frank Kelly**  
Mayor of Reigate & Banstead

# WHAT'S OPEN AND WHEN

Page	Map	Venue	Where	Facilities	Days
7		Reigate Heath Treasure Trail	Reigate		Anytime
7		World Wars Circular Walks	Reigate / Redhill		Anytime
9		Surrey Iron Railway	Merstham		Anytime
9		Narnia Trail	Banstead		Anytime
10		Reigate Town History Trail	Reigate		Anytime
10		Decorative Bird Box Trails	Earlswood		Anytime
13		All Saints Church and Canada Hall	Merstham		Sat 17 + Sun 18
14		St Andrew's Church	Kingswood		Sun 11
14		Church of the Wisdom of God	Kingswood		Sat 10 + Sun 11
16		Gatton Park	Gatton		Sat 10
17		All Saints' Church	Banstead		Sat 10
19		St Mary Magdelene's Church	Reigate		Sat 17
19		The Cranston Library	Reigate		Sat 17
20		Historic Vehicle Display	Reigate		Sat 17
22		Heath Church	Reigate		Sat 17
23		Holmesdale Natural History Club	Reigate		Sat 10
24		Barchester Beaumont	Reigate		Fri 9 + Wed 14
26		Reigate Town Hall	Reigate		Sat 10

## MAP





# Adam's Gallery

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Another stop on your Heritage Trail!

## THE 'BREWERY YARD MURALS'



Reigate's fascinating heritage told through brewing -  
from monks to Mellersh, view Adam Green's stunning murals while listening to  
QR code narration by Nicholas Owen: lots of lesser known Reigate history  
including stories and even a brewing song!

*Find the murals in Brewery Yard between First Stop Stationers and Pizza Express*



"The Three Graces"

## Reigate Heath Treasure Trail

12

From the Three Graces to the Artisan's Hut, from Bonnys Pond to J. Arthur Rank, explore this small but varied landscape with a unique ecology, and a golf course weaving through it!

A self-guided trail for all the family, from Reigate Library or [reigatesociety.org.uk](http://reigatesociety.org.uk)



## Redhill And Reigate World Wars Circular Walks

11 15

Self-guided 5km walks showing points of interest from the First and Second World Wars. The Reigate walk starts and finishes in Priory Park. The Redhill Walk starts and finishes at the War Memorial at Shaw's Corner, Redhill.

A self-guided trail available from local libraries and [reigate-banstead.gov.uk/ww1](http://reigate-banstead.gov.uk/ww1)

## REIGATE TUNNEL

RH2 9AY



## Beer FESTIVAL

Mini Beer festival at the Garibaldi Community Pub  
September 30th - October 1st 2022



For details scan or visit  
[www.redhillredstonerotary.org/2022/08/08/ale-for-aid-2022/](http://www.redhillredstonerotary.org/2022/08/08/ale-for-aid-2022/)

[aleforaid.co.uk](http://aleforaid.co.uk)



# INVENTIONS THROUGH THE AGES

1698  
-1801

## 1698–1801: The steam engine

We've all heard of Thomas the Tank Engine! But who was Thomas Savery? He was a military engineer from Devon who filed the first patent for a steam pump in 1698 – an invention that would change the course of industry and transport worldwide. Fellow Devonian Thomas Newcomen patented the atmospheric pressure steam engine in 1712, which was used to pump water out of mines. Scotsman James Watt improved the design and enabled it to be used to power factories. Cornishman Richard Trevithick went on to develop the world's first steam locomotive in 1804.



## 1733: Flying Shuttle

The British textile industry was transformed by the introduction of the flying shuttle which was patented by John Kay in 1733. This was one of the many significant developments that contributed to the Industrial Revolution. The basic design of the flying shuttle underwent various improvements before attaining its highest level of efficiency in 1747.

1733

## 1767: Carbonated Water

Carbonated water, aka soda water, was invented by Joseph Priestley in 1767. He discovered a method for infusing water with carbon dioxide by suspending a bowl of water above a beer vat at a brewery in Leeds. Priestley maintained that a 'peculiar satisfaction' could be derived from drinking his new concoction.

1767



1808

## 1808: Tension Spoked Wheel

Even though British aeronautical engineer George Cayley invented the tension spoked wheel in 1808, he never applied for the patent. This distinction went to Theodore Jones in 1826. In more modern times, these wheels have been spinning around in their millions as cyclists take to the road.



## circa 1810: Tin Can

Where would we be without the humble tin can? Without baked beans and tomato soup? Way back in the early 19th century, a genius by the name of Peter Durand is said to have come up with the original idea. Not wishing to get involved in the canning industry, Durand sold his patent a few years later to Bryan Donkin and John Hall – and the rest is history!

1810

1818

## 1818: Modern Fire Extinguisher

Almost a century after the first fire extinguisher was patented by Ambrose Godfrey in 1723, the model that we know today arrived courtesy of Captain William Manby in 1818. His prototype of the modern fire extinguisher was a 13.6-litre copper vessel containing a solution of potassium carbonate within compressed air.







## Surrey Iron Railway

4

The Surrey Iron Railway (SIR) was the first Transport Project to come under the Parliamentary Bill Procedure. The last was the Croydon Tramlink Bill in July 1994.

The Surrey Iron Railway, opened in 1805, was the first public railway and provided an important transport link for the industries of the River Wandle. It ran from the Thames at Wandsworth to Croydon where it then joined with the Croydon, Merstham and Godstone Railway.

A horse drawn railway, the Surrey Iron Railway, was suggested as an alternative to a canal. To be effective the canal would have had to draw water from the River Wandle, which supplied the power for the mills. The mill owners, not unsurprisingly, were against the proposal and so the Surrey Iron Railway was built.

The Surrey Iron Railway was designed by William Jessop and covered a distance of 8 miles.

The self-guided trail lasts around two hours.

**A self-guided trail for all the family, from Reigate Library or [reigatesociety.org.uk](http://reigatesociety.org.uk)**



## Narnia Trail

1

Discover characters from the classic children's tale 'The Lion, the Witch and the Wardrobe' at the Narnia-themed trail at Banstead Woods and Chipstead Downs Nature Reserve.

The trail takes about half an hour to complete and is largely pushchair friendly, but with some steep gravel inclines.

Holly Lane car park, Holly Lane, Banstead, Surrey CR5 3NR.

**A self-guided trail for all the family available from [reigatesociety.org.uk/walks](http://reigatesociety.org.uk/walks)**

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## Reigate Town History Trail

15

From Reigate Priory to Reigate Castle to Reigate Town Halls (both of them!), follow the stories of this medieval town. Who built the first road tunnel in England? Where were ship's biscuits made?

**A self-guided trail for all the family, from Reigate Library or [reigatesociety.org.uk](http://reigatesociety.org.uk)**



## Decorative Bird Box Trails

5

16

Decorative nest boxes adorn the trees at Earlswood Lakes and Memorial Park in Redhill, painted by talented local artists and built by the Men in Sheds group. Pick up a spotter sheet from the park café and see how many you can find, and who is living in them.

Earlswood Lakes, Woodhatch Road, RH2 7QH  
Memorial Park, London Road, Redhill RH1 2JF

**Self-guided trails for all the family available from the park cafés or [reigate-banstead.gov.uk/memorialpark](http://reigate-banstead.gov.uk/memorialpark) and [reigate-banstead.gov.uk/earlswoodcommon](http://reigate-banstead.gov.uk/earlswoodcommon)**



## Reigate & Banstead Twinning Association

### LEARN MORE ABOUT YOUR NEIGHBOURS!

The town twinning movement started very soon after 1945, with the passionate support of mayors and citizens who vowed that Europe should never again be torn apart by war.

#### BRUNOY

Our twin town in France is 22km south of Paris, with easy access. It's a small town close to Fontainebleau, Eurodisney and the lovely Senart Forest. We've been twinned since 1994.

#### ESCHWEILER

Our twin town in Germany is close to historic Aachen, not far from the Rhine and Cologne as well as the borders of Belgium and the Netherlands. We've been twinned since 1984.

Covering Redhill, Merstham, Horley and surrounding areas of the Borough.

See our website for further details and contacts  
**[www.reigatebansteadtwinning.co.uk](http://www.reigatebansteadtwinning.co.uk)**



## 1821: Electric Motor

It was the acclaimed Michael Faraday who was responsible for this invention in 1821. Faraday expanded the theory behind the production of mechanical force arising from the interaction between electricity and magnetic fields which had been expounded by André-Marie Ampère in the previous year.



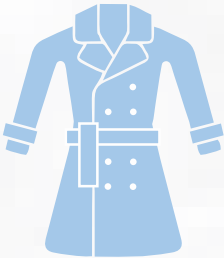
## 1824: Portland Cement

Despite his origins as a humble bricklayer in Victorian England, Joseph Aspdin was responsible for this great British invention, the impact of which on the construction industry cannot be overestimated. Aspdin devised and patented a chemical process for making Portland cement in 1824.

1821

1823

1824



### 1823: Mackintosh Coat

Known by everybody simply as a mac, the mackintosh was created by the Scottish chemist Charles Macintosh (without the 'k') as he was responsible for the introduction of waterproof garments. He developed a process that enabled the insertion of an impermeable rubber membrane within two layers of fabric so that the garment maintained its shape and was not subject to any degradation in extremes of temperature.



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# Adult Classics FREE Taster Session

## *Greek Art Edition*

Tuesday 8 November, 7pm-8.30pm

reigate•college

Would you like to learn more about the ancient world? As part of our Community Outreach Programme, Reigate College will be hosting a Classics taster session - no prior experience needed!

To sign up for this **FREE** taster event, please book online at:

[www.reigate.ac.uk/events/adult-classics-taster](http://www.reigate.ac.uk/events/adult-classics-taster)

### What to expect

The first part of the session will be dedicated to discussing what Classics is. Then, we will examine pieces of art, sculpture and architecture from ancient Greece and discuss the myths and history behind them. Samples from the Archaic to the Hellenistic periods will be explored. The session's main focus will be on the Acropolis of Athens and will also touch on other famous art works and religious sanctuaries.

You will leave the session with a deeper understanding of Greek mythology and culture and the ways in which these have had a profound impact on our own lives.

**Hosted by:** Lauren Cox, Classics & Sociology Teacher at Reigate College. Lauren has also recently completed a Masters in Classics Teaching and Heroism with the University of Cambridge.

### Coming soon....

If you enjoy the session, you will be invited to sign up for a course we are planning to run in the New Year, which will focus on the Roman Emperor Augustus and Greek religion. All profits will go to 'Classics for All', a charity who tirelessly work to give students from state schools the opportunity to study Classics and ancient languages.

*Salvete omnes, we hope to welcome you soon!*







## All Saints Church and Canada Hall

All Saints Church and Canada Hall have a unique history connected to the Second World War. Visitors can explore both buildings at their leisure and view the archives that tell their stories. Refreshments and children's activities are provided.

2022 is the 70th anniversary of the dedication of the current All Saints Church building. The original Victorian church was destroyed by a parachute mine in 1941, killing 10 civilians and one soldier. A temporary church, now Canada Hall, was built in just six weeks in 1943 by Canadian soldiers billeted in the area, inspired by their chaplain, Captain George Hedley Wolfendale. It was the only Anglican church built and dedicated during the Second World War. It continues to serve the community as a village hall and retains many of its original features such as candelabra made from car mudguards. A unique photograph album and

scrapbook were kept by the vicar's daughter of the time, detailing the progress of the build and this will be on view. Visitors can enjoy refreshments in the hall itself. Several parts of the destroyed Victorian church can still be seen both in and around the church site, including the bronze memorial plaques dedicated to those who fought and died in the First World War. Children can take part in an I-Spy Treasure Trail to see how many of these they can find.



**Saturday 17th September 1400–1700**

**Sunday 18th September 1400–1700**

Battlebridge Lane, Merstham, Redhill,  
Surrey, RH1 3LH

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

## Around 1831: Wind-up radio tech

Michael Faraday discovered in the 19th century how to use the power generated by a hand crank to deliver ongoing charge to a device. His principle of electromagnetic induction paved the way for 20th-century British inventor Trevor Baylis to create the world's first wind-up radio. Baylis went on to produce wind-up versions of a torch, mobile phone charger and MP3 player. An example of an invention creating more inventions!

1831

## St Andrew's Church

St Andrew's distinctive steeple is a landmark for miles. Benjamin Ferrey designed this Grade II flint building which is cruciform in shape with beautiful stained glass windows from both C19th and C20th.

Victorian replica of 14th century Church of St John the Baptist, Shottesbrooke, Berkshire, by architect Benjamin Ferrey.

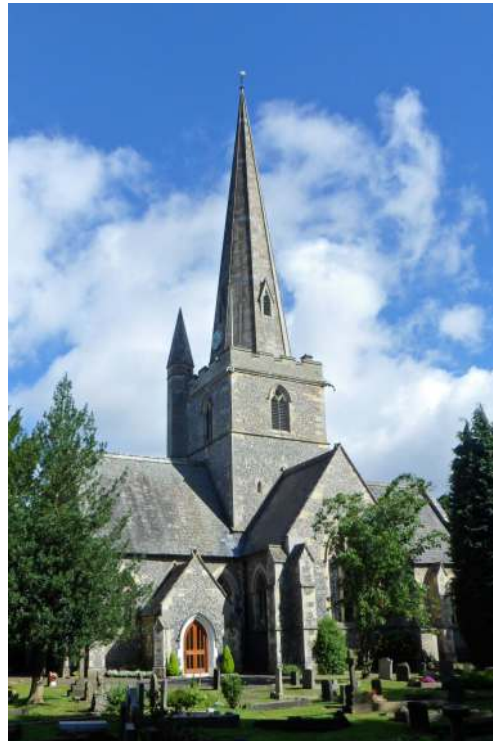


**Sunday 11th September 1300–1600**

Brighton Road, Kingswood KT20 6QE

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

Directions: From the large Tadworth Roundabout go towards the M25 and the church is set back from the A217 (Brighton Road) about half a mile from the roundabout just past a turning on the left, The Warren.



## Church Of The Wisdom Of God

The church of the Wisdom of God is unique in England: it is built like a Roman basilica and is filled with the treasures from ancient Rome and Byzantium.

Two philanthropists in the 1880s built and founded this church (working closely with craftsmen in marble and mosaic at the time of the Arts and Crafts movement) to create the Byzantine style (unique in the UK) with relics from 4th century churches of Asia Minor - Grade I listed.



**Saturday 10th September 1000–1600**

**Sunday 11th September 1100–1600**

Buckland Road, Lower Kingswood KT20 6DP

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

Directions: The church fronts the A217 (Brighton Road) on the corner of Buckland Road.



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Est. 1895



## 1826: Safety Match

A masterpiece of friction! For the humble safety match we have to thank John Walker, who eventually found this quick, reliable and safe fire-starting method in 1826. Walker was a chemist in Stockton-on-Tees who spent considerable time seeking this solution and was ultimately successful quite by accident when a stick soaked in inflammable liquid brushed against a rough stone and caught fire.

1825

## 1825: Public Railway

Richard Trevithick was the pioneer of railway track development circa 1804. His innovative work paved the way for the celebrated George Stephenson to open the first public railway line in the north-east of England between Stockton and Darlington in 1825. Soon afterwards, railway tracks began to appear all over the world.



1826

1835



## circa 1835: Photography

British scientist William Henry Fox Talbot was an early pioneer of photography by experimenting with chemical processes. Photography has of course advanced in a major way through technological developments to reach the stage where modern devices are totally unrecognisable from their precursors. People can nowadays take pictures anywhere and at any time. Is this a blessing or a curse?



## Gatton Park

Enjoy a guided tour of Gatton Park, Reigate, Surrey. Explore the beautiful “Capability” Brown-designed landscape, the Edwardian gardens including the Japanese Garden, and the newly restored Pulhamite Pond in the rock garden.

Gatton Park was created in the eighteenth century by Lancelot ‘Capability’ Brown, the most famous landscape architect of the time. His distinctive style of sweeping views and vistas, meandering lakes, small ponds and mounds

planted with clusters of trees have been restored to their former glory and the view from Gatton Hall is considered to be one of the finest in Surrey. Later additions to the 250 acre park from Victorian and Edwardian times have also been restored over the last 25 years with hidden gardens and walks now revealed - including an extensive Victorian rock garden, Edwardian parterre and stunning Japanese garden with pools, stepping stones, bridge and even a tea house. The history of Gatton can be traced back to the Domesday Book with characterful owners throughout the centuries. It even has its own Town Hall!



**Saturday 10th September 1300–1600**

The Royal Alexandra & Albert School, Foundation Office, Gatton Park, Reigate, Surrey, RH2 0TW

Tours must be pre-booked. Limited numbers.

Go to: [gattonpark.co.uk](http://gattonpark.co.uk)



**1847**

### 1847: Chocolate Bars

Chocolate lovers the world over will be forever grateful to JS Fry and Sons, who produced the magic formula for the first solid chocolate bar in their Bristol factory in 1847. Now available in countless varieties, the chocolate bar provides physical and emotional satisfaction to those in need of a quick fix!

### 1856: Refrigerator

James Harrison developed the first working vapour-compression refrigeration system in 1856, albeit the concept of a refrigeration machine had been introduced a hundred years earlier by William Cullen. Arguably, the most important event in the history of refrigeration was Harrison's development of a beer-cooling machine that he sold to a brewery. Thanks for that, James! Incidentally, it is estimated that nowadays more than 100 million fridges are sold every year.

**1856**

**1876**



### 1876: Telephone

It remains a matter of dispute as to who actually invented the electric telephone but it was Alexander Graham Bell who was first awarded the patent in 1876. Unsurprisingly, this patent led to huge commercial success and many subsequent patents for electric telephone devices followed in its footsteps.







## All Saints' Church, Banstead

Charming Grade II\* medieval church restored in 1861 by G. E. Street. Displays and an illustrated talk on the church's history, stained-glass, monuments, historic books, and bells. Churchyard walking tour in the afternoon.

A church in Banstead was mentioned in Domesday Book, but the present building seems to date from the late 12th century, with many changes since. With unusual nave arcades, some

ancient stonework, interesting monuments and windows, it repays exploration.

On 10th September there will be an illustrated talk about the church's history, plus a pictorial display and a display of historic books. Notable monuments and stained-glass windows will be identified with informative labels, and our Bellringers will be giving a demonstration. Activities will be available for children.

In the afternoon there will be a guided tour of the extensive ancient churchyard, which includes listed chest tombs. A timetable of the day's events is downloadable from our website.



### Saturday 10th September 1000–1600

High Street, Banstead, Surrey, SM7 2NG

[www.achurchnearyou.com/church/8081/](http://www.achurchnearyou.com/church/8081/)

Directions: The Church is set back from the High Street, with the green space of the Church Orchard between the Church building and the High Street.

### 1879: Light Bulb

Quiz fanatics will probably be aware that Joseph Swan beat Thomas Edison to the punch by inventing the light bulb in January 1879 – ten months before Edison claimed the same achievement in the USA. Swan had actually performed a public demonstration in Sunderland in January 1879 and went on to patent his invention, which was subsequently instrumental in his winning a court case in the UK for patent infringement.

1879

1892

### 1892: Thermos Flask

It was due to his experiments in the field of cryogenics, no less, that the esteemed British scientist Sir James Dewar invented the very first vacuum flask in 1892. Originally known as the Dewar flask, it became more commonly described as the thermos flask. Although still used for experiments in the chemical industry, the thermos flask is nowadays regarded as an everyday household item.

### 1928: Antibiotics

Responsible for saving millions of lives, the discovery of an antibiotic substance named 'penicillin' was made by the Scottish biologist Sir Alexander Fleming in 1928. In addition to helping women during childbirth, penicillin is credited with saving 15% of the wounded British soldiers in World War II and it has also eradicated many prevalent STDs. It is hard to believe that nowadays there are as many as 34 million antibiotics registered and prescribed for various disorders. However, there is a downside in that the overuse of antibiotics on farmed animals has led to antibiotic resistance and the spread of zoonotic diseases.

1928

## 1596: The toilet

Sir John Harington, English courtier and god son of Queen Elizabeth I, described the first modern flushable toilet. It was 60 cm deep with an oval bowl, and required 35 litres of water to flush.

In 1775, Alexander Cumming was granted the first patent for the flush toilet: an S-shaped bowl that used a seal to prevent sewer gases rising up out of the toilet. The first toilet was installed in Richmond Palace but was rejected by the general public as too expensive.

For centuries, many households simply had a hole in the floor. "Night soil men" cleaned out the waste and sold it to be turned into fertilizer. In 1859, Reverend Henry Moule invented the non-flush toilet: a wooden seat with a bucket beneath, and a container of dry earth or ashes to mix with the faeces. This style of composting toilet is still used today.

Thomas Crapper did much to improve toilet technology, and had showrooms in King's Road, London. It would be nice to think that his name gave rise to the word "crap" but unfortunately the Oxford English Dictionary thinks otherwise...

1596



Which of these small and big inventions can't you live without? And who knew a blunder could become a wonder!

1750



### Around 1750: Glue – A sticky subject!

Glue spans the entire history of mankind, from tools, shoes to forensics.

Around 1750, the first patent for glue was issued in Britain. As a kid, you're likely to have heard that glue is made from horses. But is it true? Well, yes, horse parts were used to make glue, along with bits of fish, cows and pigs. But today, almost no glues contain animal products, from the strongest superglue such as Gorilla and UHU, to glue sticks.

Gorilla, announced in 2019: "*We believe strongly in the inherent rights of animals. Therefore, The Gorilla Glue Company does not perform any kind of animal testing, and there are no animal by-products or animal-derived ingredients in any of our products.*"

1770  
-1780



### 1770–1780: The Toothbrush

The idea came to William Addis while in jail for causing a riot! Observing that teeth cleaning with soot, salt and a rag wasn't really very effective, he decided to develop an easier solution: the toothbrush.

Addis founded the Wisdom manufacturing company in the 1780s and it still produces toothbrushes today. Originally made from bone or wood with boar bristles, in 1938 toothbrushes with the nylon bristles we're all familiar with appeared in the shops. Now we're seeing toothbrushes made from bamboo fibres and wood!

1980

### 1980: Post-it Notes

An example of random wonders! Dr Spencer Silver invented a repositionable adhesive but didn't quite know what to do with it. His colleague, Art Fry, had the idea of a bookmark which would be sticky enough to stay put in his church hymn book, but not so sticky that it would rip the pages. And the Post-it Note was born!

The very first Post-it pack hit the shops in 1980. The best-selling colour has always been yellow – which just happens to be the colour of the paper on which the first scientist tested the adhesive.

In 1989, a family in the US left a Post-it Note on their front door during a hurricane. Their trees were no longer in position but the Post-it Note was!

How many Post-It Notes are needed to create a continuous chain around the world? **507 million.**





## St Mary Magdelene's Church

One of Surrey's largest churches featuring interesting monuments and memorials. The Cranston Library (separately managed) is situated on the first floor.

St Mary's Church, dating from the 12th century, is one of Surrey's largest churches and features interesting monuments, memorials, an 18th century brass chandelier and a pre-Reformation brass plaque. Flower arrangements, displayed information on the history of the church and notable features, and our recently restored Norman and Beard organ will be played during the day. There is also a churchyard with some gravestones and Commonwealth war graves. Guided tours of the Bell Tower (not suitable for children under 8) and Church are available.



**Saturday 17th September 1000–1600**

Chart Lane, Reigate RH2 7RN

[www.stmaryreigate.org](http://www.stmaryreigate.org)

Max 10 people per tour/session. 40 minutes.

Tower tours 1030 & 1130

Church tours 1130 & 1300



## The Cranston Library

A tiny, exquisite parish library founded in the early 18th century, a forerunner of today's public libraries. Find out about its history, and the story of its remarkable founder, Andrew Cranston.

In 2022, after two years of closure during the pandemic, The Cranston Library will be open again to visitors. Founded on 14 March 1701, the library is situated in a small chamber above the vestry in the parish church of St Mary Magdelene, Reigate, Surrey, where it has been since its foundation. Possibly the first public lending library in England, it contains works of literature, history, geography, science, classics and theology.



**Saturday 17th September 1000–1600**

Chart Lane, Reigate RH2 7RN

[www.cranstonlibraryreigate.com](http://www.cranstonlibraryreigate.com)

The library is reached via a narrow staircase, with no alternative access. Owing to the size of the room, the number of visitors at a time is restricted to 10. No pre-booking is required, but there may be a queue or a delay.



## Historic Vehicle Display

A display of Historic Vehicles by Surrey Vintage Vehicle Society.

Surrey Vintage Vehicle Society was formed in 1967 and has over 200 members.

The age of vehicles owned by members ranges from some made before 1900 up to 25 years old.

The Society caters for all types of historic vehicles including cars, motorcycles, commercial vehicles, etc.

Our display will include vehicles of various different makes, types and ages.



**Saturday 17th September 1000-1600**

Tunnel Road, Reigate RH2 0JY

**[www.svvs.org](http://www.svvs.org)**

Directions: Tunnel Road runs North off the High Street between Cafe Rouge and The Market Stores public house



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[www.gayton.co.uk](http://www.gayton.co.uk)

GVG



## 1928-37: The Whittle turbo-jet engine

With dreams of becoming a Royal Air Force pilot, it was in 1928, while a cadet at RAF College Cranwell, that Frank Whittle developed the basic concept of the turbo-jet engine. After a little adjustment, in 1932, he was granted his first patent for it.

The French engineer Maxime Guillaume had submitted a patent for a similar engine in 1921, but as it wasn't technically feasible at the time, the patent was not awarded.

1928-1937



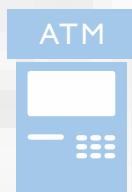
## 1934: Cat's Eye

Arguably one of the greatest inventions of all time, the reflective road stud known as the cat's eye was patented by Percy Shaw in 1934. A year later, Shaw established a company for their mass production. Since their widespread installation on roads, countless accidents have been avoided and countless lives saved.

1934

## 1967: ATM

The automated teller machine (ATM) has been putting cash in our hands for more than 50 years since its first installation at a branch of Barclays Bank in Enfield, London. The man we have to thank is John Shepherd-Barron, an Indian born Scottish inventor, who led a team of engineers to produce this ingenious electronic device.



1955

## 1955: Automatic Kettle

The world's first automatic kettle was developed by the 1950s start-up Russell Hobbs in 1955. Their iconic Stainless Steel K1 model featured a groundbreaking thermostat-controlled automatic electrical cut-off system, which has been much imitated by a legion of competitors. Is there a single household or workplace that doesn't have an automatic kettle? How did we survive before their arrival!



1967

## 1989: World Wide Web

Tim Berners-Lee was working as an independent contractor for CERN when he had a vision that was transformed into reality in the late 1980s as he developed a system to share and update information among researchers by using the concept of hypertext. To showcase his information web project Berners-Lee built a prototype system named ENQUIRE, which was the forerunner of the World Wide Web that he created in 1989 before its redistribution in the following year.



1992

## 1992: Smartphone

The first version of what can be considered to be a smartphone was developed by IBM in 1992. It went by the name of IBM Simon or, more grandly, the Simon Personal Communicator. After reaching the marketplace in 1994, it sold in its tens of thousands. Even though the design, features and performance capability of smartphones have evolved exponentially over the years, many of the original features of IBM Simon and other early models are now standard in today's versions. The term 'smartphone' became commonplace in the 2000s as they became more affordable.



## Heath Church, Reigate

The Heath Church, Reigate is a daughter church of St Mary Magdalene (also open for HOD).

The church was built in 1907 to serve the western end of the parish. It is an example of an iron church, one of many constructed at this time both in this country and overseas. The east window was designed and made in 1971 by Keith New who designed some of the nave windows in Coventry Cathedral. The church has recently been completely restored and a new annexe built.



**Saturday 17th September 1100–1600**  
Flanchford Road, Reigate, Surrey, RH2 8AB  
07718 305127 or 01737 245516  
[www.stmaryreigate.org](http://www.stmaryreigate.org)

Directions: Park near the church notice board which is on the left just past the row of houses in Flanchford Road. The church is about 100m on the left down a lane. There is a car park a few hundred yards further on.



## EVOLVING INVENTIONS

### Cutting-edge science here in the UK!

A British company XCellr8 is bringing about a huge change in animal testing and toxicology tests which is more dependable and safer for people.

Each year inside British laboratories, around 3 million animals are experimented on. Every 8 seconds, one animal dies. Cats, dogs, rats, mice, guinea pigs, rabbits, monkeys and other animals are used to test products, to study disease and drugs. One species of monkey is at risk of becoming extinct because of the sheer numbers taken for human experiments.

Differences in physiology between test animals and humans mean the results of up to 96% fail. So the old model hurts us too.

XCellr8 scientists are seeking better science using human cells instead of live animals at their animal-free laboratory in Cheshire. Founded in 2008, they've made huge scientific leaps over the last 14 years. Not only do they not use any live animals, they have chosen not to use any animal-derived products.

XCellr8 says: "It's now widely accepted that animal tests simply don't reflect what happens in our human bodies in everyday life. Exciting scientific advancements now mean a better way is filled with amazing possibilities."

For more information or to donate towards this new future, see:

<https://www.animalaid.org.uk/xcellr8-ld50-replacement/>



## Holmesdale Natural History Club

Founded in 1857 the Holmesdale Natural History Club is opening its private museum of Natural History, Local History, Local Archaeology and Geology.

The Museum's Collections on display include local artefacts including Roman tiles, medieval drainpipes, stones from Reigate Castle, Victorian stuffed birds, local bottles and mementos, prehistoric flints, fossils and documents relating to the history of Reigate and Redhill.

Please note: Wheelchair and pushchair access on ground floor only.



**Saturday 10th September 1000–1600**

14 Croydon Road, Reigate RH2 0PG

[www.hnhc.co.uk](http://www.hnhc.co.uk)

Directions: Look for the gate in the ancient wall.



### Word search!

Can you find all these inventions?

TINCAN

WHEEL

CEMENT

RAILWAY

CHOCOLATE

TELEPHONE

LIGHTBULB

ENGINE

KETTLE

L	C	J	E	H	W	J	P	O	M	B	T	Y
H	S	A	N	J	A	O	U	C	I	X	H	K
P	L	S	G	R	E	L	E	Q	E	P	W	B
D	I	G	I	D	K	M	I	L	A	U	B	S
U	G	S	N	A	E	C	W	R	T	U	P	X
Y	H	V	E	N	T	S	G	C	X	T	I	F
A	T	E	T	A	L	O	C	O	H	C	E	D
W	B	R	N	E	T	F	N	R	S	F	N	K
L	U	Y	F	O	W	Y	E	G	I	T	A	N
I	L	K	H	B	H	A	L	K	N	E	C	C
A	B	P	C	K	E	C	K	M	Y	Q	N	W
R	Z	T	E	L	E	P	H	O	N	E	I	S
H	R	V	Y	A	L	D	L	R	S	Y	T	U

## Barchester Beaumont

The Barchester Reigate Beaumont welcomes you to see their beautiful Care Home and surrounding grounds.

Following significant investment, Reigate Beaumont has a brand new look. The appearance of our home has been carefully designed with the people we care for in mind. Our bright new reception area is the perfect spot for socialising or taking part in one of our many daily activities. Our beautiful new dining room is a wonderful place to enjoy a three-course home-made lunch and our new bedrooms are comfortable and tastefully decorated.

Nestled between Reigate Hills and the Heath, the Reigate Beaumont is a home oozing charm and character, offering first-class 24-hour nursing and residential care in Surrey.

Reigate Beaumont is proud of its beautifully maintained and nurtured award-winning gardens which both residents and visitors to the home can enjoy all year around.



**Friday 9th September 1030–1500**  
**Wednesday 14th September 1030–1500**

Colley Lane, Reigate RH2 9JB

Tel 01737 225544

**[www.barchester.com/home/reigate-beaumont-care-home](http://www.barchester.com/home/reigate-beaumont-care-home)**

Pre-booking preferred. Call 01737 225544 or email [reigate@barchester.com](mailto:reigate@barchester.com) to book.

Directions: Barchester Beaumont is tucked away off the main road. The entrance of Colley Lane is opposite the Black Horse pub on West Street in Reigate.



Page no:



Page no:



Page no:

## Photo search game!

Can you find all the photos from these clues?



Page no:



Page no:



Page no:

Page no:





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[wsa.co.uk](http://wsa.co.uk)



Find out more



## Reigate Town Hall

The Town Hall in Reigate will open its doors to the public for pre-booked tours. For one day only, come and take a free look behind the scenes at the Town Hall and discover its fascinating 121-year history as home to many of the community's public services. The Grade II Listed building, completed in 1901, originally housed the Town Hall, law courts, police and fire stations – the 70-foot former fire station tower still forms the principal exterior feature of the building today.

All tours will be guided. Tours are free but booking is essential. For further information please contact: [mayor@reigate-banstead.gov.uk](mailto:mayor@reigate-banstead.gov.uk)



**Saturday 10th September 1000–1400**

Reigate & Banstead Borough Council, Town Hall,  
Castlefield Road, Reigate, Surrey, RH2 0SH

[www.eventbrite.co.uk/e/heritage-open-day-tickets-390304801167](http://www.eventbrite.co.uk/e/heritage-open-day-tickets-390304801167)

Max 20 people per tour/session. 20 minutes.

scan me



Thank you to all the volunteers and venues who have made this event possible.

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# SPOTLIGHT ON EVOLVING INVENTIONS



## Packaging – changing the future of tomorrow

Less plastic is fantastic, right? **Cornstarch packaging** is being adopted to replace polystyrene and single-use plastic.

Currently, the most popular way to utilize cornstarch is for packaging and wrapping. As it's biodegradable and renewable, it's helping create less waste.

Using corn starch, vegetable materials, recycled food waste, and other materials, more companies are starting to create their own environmentally safe alternatives to plastics.

## A less wasteful and more fruitful future!

Another alternative product is **plant-based leather** created from discarded by-products, which provides an additional income stream for farmers and reduces food waste.

**Apple leather** – The seeds, cores and peel of processed apples can be used to make a 100% biodegradable, highly durable, UV-resistant textile, with a soft, rich texture. And with brands like Volkswagen bringing it into the limelight, a wider range of uses is bound to be found.

**Pineapple-based leather (Pinatex)** – Because it is derived from the leftover leaves of the pineapple plant, Pinatex removes waste from the harvesting process. The textile has a weathered, vintage appeal.

**Mushroom leather (Mylo)** – Developed by start-up, Bolt Threads, “Mylo” is a soft, leather-like material made out of mycelium, the underground root structure of mushrooms. It takes just days to produce, and is described by Bolt Threads as strong and abrasion resistant.

A future where the textiles industry depends less on livestock no doubt benefits the billions of non-human animals used for their hides each year. But that's just one of the many benefits. With 45% of fruits and vegetables being discarded, using them to create fabric has to be the way to go.

And a future where we no longer need to use the dangerous chemicals required to tan animal skin into leather means a future where fewer workers are exposed to carcinogens and other toxins. After all, tannery workers have double the risk of morbidity compared to non-tannery workers.

In a climate defined by ever greater scrutiny of human, environmental, and animal suffering, there's a feeling change is coming.

*Extracts from Caroline Francis of VOKE, boutique*





Anything - Anywhere - Anytime

... just ask!

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