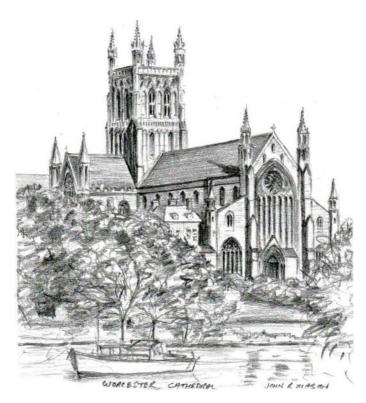
Issue 55: December 2019

Newsletter



Worcester Cathedral by John Mason

WORCESTERSHIRE INDUSTRIAL ARCHAEOLOGY & LOCAL HISTORY SOCIETY

MEMBERSHIP NEWS

We are pleased to welcome the following new members to the society:

Michael & Judith Dame	s Worcester
Karin Fancett	Worcester
Anna Frankel	Worcester
Richard & Andrea Han	dy Worcester
Angela Harris	Worcester
Tony Sleight	Elmley Castle
David Steade	Kempsey
Robin Walton	Ashton under Hill
Brian & Kim Darwood	Worcester

Sadly 3 members have passed away. Bob and Connie Swann both passed away last year, but we were not informed until June of this year, and Anthony Russell-Jones, who passed away in May. Our condolences were sent to both families. We were pleased to see Sue R-J at our September meeting.

It is an important role, which I have very much enjoyed, so I hope someone will be willing to take it on. You will need to be able to use email. I'm happy to have a hand over period, but do not wish to continue in the role. It will be 9 years in March since I took over from Jacky Hollis.

Sue McCurdy

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NEWSLETTER TEAM

Content:	Michael McCurdy	
	Roger Tapping	
Artwork:	John Mason	
Layout:	John Beale	
Printing:	Pace Print & Design	

Please accept my apologies for this newsletter being later than normal, this is due to an unusually busy autumn for me. The next issue will be in April please send me any contributions by 15th March 2020.

John Beale

PRESIDENT'S PIECE

It seems no time since our April meeting — I hope you had an enjoyable Summer and that you are looking forward to the (rest of the) programme of Winter talks we have arranged for you. I had hoped to have a talk on the history of Morgan motors at the Conference (more of this below), this will not be possible - but will be included in the talks of 2020 — 2021. It seems a long way off but time will pass very quickly.

We have been working to organise the 51st Regional Industrial Archaeology Conference. The date is 4 April 2020 and the Conference will be held at the Elim Conference, Centre, West Malvern, WR14 4DF. The facilities are excellent and I do hope that many of you will be able to attend. Some of you may remember that the society visited the site before it became the Elim Conference Centre. They have made great changes and even offer inexpensive bed and breakfast in smart hotel type rooms. The lunch is cafeteria style and is 3 courses and there are tea and coffee breaks during the day.

On 24 July we enjoyed a garden party at the Walled Garden — the weather was very good and Julia and Will Scott explained the history of the Garden and I hope you all enjoyed the cakes. We managed to raise over £100 for Julia and Will's charity.

Mike Hayzelden organised another excellent summer programme. On Sunday I September. We met at 8.30a.m. at Northwick Lodge and headed for Clifton Downs in Bristol. I have visited

Bristol many times but had no idea that there was such a lovely spot above the suspension bridge. Our object was the observatory - this was originally a windmill and has had several lives including as a watchtower in WWII. There is an excellent café that was only opened a few weeks before and seemed very popular. We climbed to the top of the tower and all enjoyed the camera obscura — it is fascinating to look down on a scene as if it was a film. There was also a Giant's Cave that led from the tower to overlook the gorge - I didn't attempt this but heard one of our members say it must have been a very small giant.

After refreshments we travelled to Aerospace Bristol — This was a huge museum devoted to the BRISTOL company and the history of flight. I think that we were all amazed at the bravery of the early pilots - one plane was called the Bristol box kite if you have ever seen a box kite it looked just like one and just as fragile. It was interesting to see how quickly flight progressed.

Our final visit was to see CONCORDE; we all knew that it was quite small inside but compared to Concorde our coach was luxurious. The entire museum was manned by volunteers and they were both very helpful and informative. We all agreed that it was a great day out — thank you Mike!

Christine Silvester

REGIONAL AIA CONFERENCE 2020 SOUTH WALES AND WEST

Next year, 2020, it will be the turn of WIA&LHS to host the annual South Wales and West of England Regional Industrial Archaeology Conference (SWWRIAC). This will be the 51st such conference and we have selected the venue as the Elim Conference Centre in West Malvern. It will he on Saturday, 4 April 2020.

You may remember the conference centre in its previous use as St. James School — we visited some years ago when it first became the Elim Centre. The facilities are now very good, offering a theatre, three course lunch, inexpensive hotel type accommodation and even a heated outdoor swimming pool!

The speakers will include:-

- Dr Dennis Williams the Industrial Archaeology of Croome Park, Defford Airfield, the Museum and Jet Flight.
- Pamela Hurle Stephen Ballard, Canal and Railway Engineer and Entrepreneur of Colwall.
- Dr John Harcup, The Magic of Malvern water — the Springs of Malvern and the Water Cure.
- Mike Napthan—The IA of Worcester Shrub Hill station

During the lunch break Mike Jackson will introduce a screening of a historical film of hop picking and processing in Worcestershire and the various societies from the region will have stands and there may be books for sale.

Following the main programme there will be a series of optional visits in the Malvern area.

We hope that as many of our members as possible will support this event. 2020 will be the start of our 50th year as a society (founded in 1971) and this event marks the beginning of our celebrations.

A programme and booking form has been circulated at meetings and a copy enclosed in this newsletter. Information and booking is also available through our website.

On the next page I review the 2019 conference, which was held in Bristol.

Christine Silvester (with updates from John Beale)



REGIONAL AIA CONFERENCE 2019 HOSTED BY: - BRISTOL IA SOCIETY

The 50th South Wales and West Regional Conference, was hosted by BIAS at Saltford, Bristol on 6th April 2019.

Stuart Burroughs, Chairman of BIAS welcomed the delegates. The conference was held in the Village Hall with good facilities and car parking.

Brunel Swivel Bridge- Geoff Wallis M.I.Mech. E.

You may remember that Geoff came to speak to us some years ago — his company Dorothea restored the Bill Gwillam memorial seat situated in the Cathedral gardens. We visited the bridge some years ago at a BIAS Conference.

The swivel bridge is older than the suspension bridge and was originally located over his new lock. The bridge was designed in 1849 and was operational in October 1849. In 1872 — 1873 it was shortened and relocated.

The bridge is hydraulic and internally self bracing and has not been used for 50 years. In 2012 there was a Sustrans scheme to convert it a cycle bridge by cutting it in sections. This was not advisable as the construction is of cast iron.

In 2015 Avon Industrial Building Trust 's initiative was to restore it in situ with minimal intrusion and risk. The difficulties were the position, BCC Dockland, 4" from the modern Plimsoll Bridge at

one point and it is owned by Bristol City. Volunteers worked on it for 5 years. The Structural Boxes were cleared and re- painted. The vulnerable central position now covered - to date £70,000 has been spent.

The bridge rotates on cast iron wheels (IKB design). 3 pairs of new bronze bearings were cast by Boro Foundry' Dudley. 8 wheel bearings were levelled and aligned. Bearings to 2 tail wheels were dismantled and serviced (in good condition). The list of Volunteers work in 2013 includes prepared CAD drawings.

Rust and holes had previously been repaired by plates — they were blasted by dry ice — followed by paint trials and plate repair trials. The side girders had holes cut to allow tie rod investigations. The ground investigations found alluvium and made ground.

The bridge is retained on a pintel; this has this has never moved since 1840's. A new bronze collar weighing 300kg was cast and manoeuvred into place. The water hydraulic system 750psi was made by Armstrong Whitworth in 1901. It will eventually be moved with winch cables.

There will be a Structural Engineering Conference on 6 September 2019 and a subject will be 'Building Bridges with Brunel. There is a copy in Petersburg the Petrowski Bridge.

Recording Watchett Paper Mill — The volunteers were on the site for ap-Mary Miles — SIAS.

local art group decided to record build- This was an enormous task for the volings and record oral history of the site unteers - I wonder if we would have by local community. In June 2017, SIAS enough willing helpers in WIA&LHS! It covered recording - no locals volun- was interesting that an art group did the teered. The site was huge 15 acres - work. there was no accurate plan of buildings on the site which was on a slope. There Brass Mill at Saltford were a few photographs: 1889 - major fire, 1898 - second major fire, 1920 pho- This after-conference visit was very poptograph of mill workers included same ular and the majority of WIA&LHS small children. An 1870 photograph delegates had chosen it. showed a house above the factory and an even older painting showed a water- Brass is not an easy alloy to produce mill on the site. There were constant it contains approximately 67% copper alterations to the factory complex and a and 33% zinc. Both materials were availa-1951 overhead view showed a 'modern ble fairly locally and the mill is on the factory complex'.

site and produced a plan to scale. The quality brass and sought craftsmen from level 2 survey was drawn, photos taken the low countries - many of their deand surveys written both inside and out- scendants are still to be found locally. side. The recorders produced a sheet for each floor and invested in a laser Our guide was very helpful and explained distance meter.

not possible for amateurs to understand, furnace was developed and that refined A weighbridge was dated to 1955 - not the method. Brass is not cast but ham-1933 as was thought. In 1905 A 1,000hp mered into shape in the same way as engine was installed — the largest engine silver — the craftsmen used a drop hamin South of England.

The Company paid for disposal of waste produce many different articles. paper. There was also the cost of dealing with effluent and even after closing the The mill is in an excellent position on the electricity cost £1,000 per week. Keep- edge of the river and would have been ing the factory 'Mothballed' was too ripe for renovation into a des res. costly. The only planning application was for demolition.

proximately I year and produced 5,000 photographs, a spreadsheet, building When Wansborough Paper Mill closed, a survey and 'a walk round the site' online.

estuary making deliveries of the raw materials possible. The British did not have A laser scanning company worked on the the skills and knowledge to produce high

the process — the craft was that the materials must be amalgamated at the The machinery was very complicated and correct temperature. A reverberating mer and moved the object being made around- with great skill and speed to

Christine Silvester

MADE IN OLDBURY

The Products and Enterprise of a Midland Town

Dr Terry Daniels delivered two talks to the society on xxx and xxx.

His first talk started by outlining the natural resources of the old Borough of Oldbury, which straddled the eastern boundary fault of the South Staffordshire Coalfield. The western half of the borough was rich in coal, Etruria marl. and some iron ore leading to the heavy industries that developed there, coal mining, brick making and metal working. The eastern half remained rural and agricultural until the mid-twentieth century being based on Permian sands and gravels.

He then presented various objects manufactured in the town and illustrating the different industries that became established there. The Oldest industry was the production of hand-made nails, which flourished locally until they were replaced by machine-made cut nails in Victorian times. One Of the first factories to be established in the town was that Of William Hunt in the late eighteenth century. They produced all manner of 'edge tools' at the Brades works, including brick-layers' towels (the object for this industry), scythes, garden equipment, knives, and even ramrods for cannon in the Napoleonic war.

Larger products arose through the development of railways, with the building or wagons and coaches at Oldbury Carriage Works. Not able to bring a whole wagon, his object here was a carriage plate, 'Built at Oldbury Works 1929'. The firm started in Bromsgrove in 1847 but moved in 1854 to a Site in the cornfields next to the new London and North Western Railway at Oldbury. Carriages were sent to railways throughout the world, giving them an international reputation. They became part of Metropolitan-Cammell, and the site finally closed in the 1930s. They can claim the production of around three-quarters of the tanks used by the British in WW1.

Also of large size were the boilers built by Edwin Danks and Co, and represented by a 1911 sales specification. Their main rivals were other members of the family running Danks of Netherton! The company was sold to Babcock & Wilcox and continued to make boilers until the 1970s. To burn low- grade coal and release men for WW2, they developed the 'Oldbury' Chain Grate Stoker which fed fuel to the boiler and removed the ash mechanically.

The next object was a brick made by Pratts Ltd at their New Century Brick Works. This was one of the last brick companies in Oldbury, started in 1900, at a time when the centre of Oldbury was surrounded by marl holes and brick works. The last marl hole was filled in about five years ago, and now there are none!

The second instalment focused on the remaining industries of chemicals, plastics, surgical items and a host more.

Terry Daniels

VISIT TO NORTHAMPTON & WEEDON 7 August 2019

I cannot remember having so much material sent to me for one summer outing, but its all fascinating and worthy of printing. So in this extended feature on Northampton you will find:

- A visit summary from Mike Hayzelden
- Extensive notes to the itinerary produced by the Northampton IA Group
- An article on Charles Rennie Mackintosh and 78 Derngate by Eileen Porteous

The notes from NIAG contains photographs of almost every building—too many to reproduce here. If any member is interested Mike Hayzelden or John Beale can email the complete document to them.

Northampton, Boot and Shoe Quarter: Peter Perkins, NIAG Sec.

The Secretary, Peter and Treasurer, Terry Waterfield of the local Northampton Industrial Archaeology Group guided our coach on a tour then short walk to see some of the factories of the area, mostly to the north of the town centre. We began with probably the best preserved and most iconic one, the Barratts terracotta building well north of the city centre. William Barratt, born in Northampton in 1877, started selling 'Shoes by Post' around the turn of the C20th. Now used as offices (not Barratts).

The boot and shoe industry started in Northamptonshire around the time of the Civil War and expanded rapidly in the C19th as mechanisation increased. From a craft industry, undertaken in houses and workshops, factory working became the norm in the main towns of Northampton, Kettering, Wellingborough, Rushden and Daventry, as well as smaller towns and larger villages. The



latter half of the C19th saw the development of the typical Victorian streetscape of 2- and 3storey factory buildings, usually on street corners, set in amongst terraced houses, some of which had shoemakers' workshops in their back yards. There were also associated industries such as leather production and shoe machinery manufacture.



We ended with a short walk around the old quarter close to the town centre, where the theme was more of disuse or re-use, with surprising little conversion to apartments evident. Peter left us at the town centre, beside the main market square for us to find lunch, before our afternoon visit to 78 Derngate. Some members were lucky enough to gain entry to the Town Hall and see its' magnificent Great Hall.

Visit to Weedon Bec Depot

We (lan our driver and myself) almost missed the village due to a newly opened bypass, maps and satnav notwithstanding. This Georgian munition depot remains mainly the same as when it was first erected in 1803, when 53 acres of land (later increased to about 150 acres) were purchased for "erecting buildings thereon for the service of His Majesty's Ordnance".

The site was chosen being furthest from the coast and possible invasion by Napoleonic forces. The Depot was connected to the Grand Junction Canal by a short cut which enabled loaded narrowboats to move into and through the site under a gatehouse or lodge and a portcullis. Α second gatehouse cum lodge with portcullis was situated at the far end of the storehouses to protect the canal access to the powder magazines beyond. There were originally eight large brick and stone-faced buildings of two storeys housing a military prison, a hospital and a

chapel. The magazine built at the same time as the Depot consists of brick buildings with very thick walls and each building was used for storing over 1000 tons of Gunpowder.

After a short stop and walk up alongside the central canal (and then extracting some members from the antiques



centre) we travelled back via Southam to In the English Civil War, Northampton the M40. Mike Hayzelden

Northampton

Originally known as Hamtun, a Saxon ufactured by a group of shoemakers in word for a main farm or manor. North- the town. ampton was of strategic and military importance in early medieval times, lo- In 1675, tragedy struck when the Great cated in the Midlands on the River Nene Fire of Northampton destroyed much of (the name rhymes with 'hen' in these the town but public donations, including parts!). While there is evidence of habi- 1,000 tons of timber from Charles II, tation in the surrounding area some allowed the town to be rebuilt. By 1724, 6000 years ago, it is in the 10th century Daniel Defoe was able to write that that a significant community was estab- 'Northampton was the handsomest and lished, and by the time of the Domesday best built town in all this part of Eng-Book it had a population of over 1,500. land'. He also recorded that Northamp-The first Earl of Northampton. Simon de ton was renowned for its shoes. Senlis, fortified the town in 1089 and a castle was erected in the 12th century. It In 1742, the world's first water-powered became one of the most important and cotton spinning mill opened in Northprosperous towns in Britain where great ampton, some 20 years before Arkevents of state took place. In 1164 wright's mill at Cromford in Derbyshire. Thomas à Becket, Archbishop of Canter- Unfortunately it was never financially bury was tried in Northampton Castle successful. for his opposition to Henry II but he managed to escape and his name is com- Northampton's position in the centre of memorated in a number of ways around England undoubtedly influenced its imthe town, most notably by Becket's Well portance, being close to the Chester on Bedford Road.

the craft industries in medieval times, up to Northampton from the Wash and firstly cloth weaving and dyeing and later in the 19th century the town prospered on the wool industries. The leather in- further as industrialisation brought new dustry was important due to the good wealth. A branch canal was dug from the supply of local oak bark for tanning River Nene at Northampton to join up leather. The town was also involved in with the Grand Junction Canal at Blisshoemaking from medieval times and worth, thus creating a water transport gradually developed to become the dom- link to both London and Birmingham. In inant industry.

was considered to be on the Parliamentarian side and Cromwell spent the night here in 1645 prior to the Battle of Nase-Brief Overview of the History of by, some 10 miles away. In 1642, there is the first recorded order for boots and shoes for the Parliamentarian Army man-

Road (now the A5), giving access to London and the north-west. In the 18th cen-Much of the town's wealth sprang from tury the River Nene was made navigable 1845 the first railway arrived in the town, albeit a branch line from the Lon-

don to Birmingham Railway at Blisworth on its way to Peterborough.

Northampton's population grew from 7.000 in [80] to 87.000 in [90] as mechanisation of the shoe industry brought factory working to the town. In the early part of the 20th century, almost half the adult population was working in the shoe and leather industries. Other industries were also important, for example engineering companies such as Express Lifts (lift manufacture) and British Timken (roller bearing manufacture) were large employers in the town, not to mention model engineers Bassett-Lowke whose founder owned 78 Derngate, the house to be visited in the afternoon.

The middle of the 20th century saw decline in shoe and leather industries due to cheap imports. The centre of Northampton was again ravaged in the 1970s, not by fire this time but by planners who swept away vast swaths of buildings and streets including most of the town centre's shoe factory buildings. However, However, today it is once again testing many of the factory buildings in the lifts. town's suburbs survived and in 2013 the area north and east of the town centre History of the lift tower: was created a Conservation Area called Lift engineers Smith Major and Stevens the Boot & Shoe Ouarter.

into Northampton

A) National Lift Tower

using a revolutionary continuous con- and a landmark in the Northamptonshire crete slip-casting process, the 127 metre countryside, high lift testing tower was only in use by 'Northampton Lighthouse' by the late the company for less than 20 years. Terry Wogan. It was designed by North-



established their Abbey Works on this NIAG site in St James Northampton in 1909. In 1930 the company merged with the Sites visible from coach coming Express Lift Company and were later acquired by the General Electric Company. In 1983, the Express Lift Co built their lift testing tower at the Abbey Constructed in 1983 for Express Lifts Works. It is 127 metre (418 feet) high nicknamed the architects Stimpson & Walton and con- for example companies wishing to test structed by Tileman & Co of London. working-at-height safety devices. Standing on a reinforced concrete raft some 24 metres in diameter and 3 me- B) Former Tram & Bus depot tres thick, the tower is 14.6 metres in Built as the Northampton Corporation diameter at the base, tapering to 8.5 Tramway Depot in 1904, the building has metres at the top. The structure above been expanded on a number of occaground level weighs 4,000 tonnes. Con- sions and was used as a bus depot until structed using a revolutionary continu- closure in 2014. Tram tracks are still in ous slip-casting process, the tower grew the floor of the original part of the buildat a rate of 7.2 metres every 24 hours ing. It has been acquired by next-door and took 3 weeks to form the shell. Cir- company Church's Shoes - see below cular in cross-section, the top is pierced who plan to turn it into additional shoe to reduce wind resistance. Inside are six production facilities. lift shafts of varying heights and speeds, one of which is a high-speed shaft with a C) Church's shoe factory travel of 100m and a theoretical maxi- Shoe factory with three-storey frontage mum speed of 10m/s.

The tower had a short working life un- 1900 and occupied initially by shoe mander Express Lifts. The company was tak- ufacturer Arthur Stanton & Co. In 1901, en over by OTIS in 1996; the Abbey taken over by Padmore and Barnes who Works closed in 1999 and the site was were here until 1950s, producing footdemolished in that year, all except the lift wear using a moccasin construction; tower which had been listed Grade II by their emblem, a roundel in the form of a English Heritage in October 1997. The Native American can be seen above the site was sold to Wilcon Homes for de- main entrance. Church's Shoes have ocvelopment. After an uncertain period cupied the factory since 1957. during which an application to demolish

the lift tower was made (citing 'concrete cancer' as the reason) and rejected, it is now privately owned and has been renovated, renamed the National Lift Tower and since 2010, has once again been used to test lifts. As well as being a resource for the lift industry, the building is also available to

ampton architect Maurice Walton of companies requiring tall vertical spaces,

with two-storey ranges behind extending back some 100 metres. Constructed by



History of Church's Shoes:

liam Church - set up a small boot & that reproduces these hand operations. shoe manufacturing unit at 30 Maple It involves stitching a leather welt to a Street in Northampton (now demol- lasted shoe upper (a leather upper that ished). In 1874 they added a larger build- has been pulled over a plastic last and ing in nearby Duke Street (in part of tacked to an insole). A leather sole is what is now called the Boot & Shoe then stitched to the welt, thus securing it Quarter). At this time, only the to the shoe bottom. There are more 'clicking' (cutting out the upper leather than 250 individual operations that go pieces by hand) and 'closing' (stitching into manufacturing a Goodyear welted the upper leather pieces together using a shoe. By the late 19th century most of sewing machine) were carried out on the these operations were mechanised. premises, the other shoemaking operations were carried out in the workers' <u>D) Former maltings</u> own houses.

were being undertaken with the aid of as bonded warehouse. Part of building machinery and a large 6-storey factory has been used by Frog Island Brewery in was constructed in Duke Street. Even so, recent years. as production increased over the next 50 years, additional space was needed E) Northampton Station (formerly and acquired by taking over adjacent Northampton Castle Station) factories and in some cases terraced The railway came to Northampton in housing, as well as factories in other 1845 but only as a branch line from the parts of Northampton. In 1957, Church's London & Birmingham Railway at Blismoved to the present factory in St James worth with its station in Bridge Street on and despite the demise of most UK shoe the south side of town. A station first manufacturers during the second half of appeared on the present site in 1859 the 20th century, Church's have sus- with the opening of the Northampton to tained production, producing high quality Market Harborough line but it was not men's Goodyear welted shoes. It is until 1881 that a loop line was built off thought that they produce some 4,000 the West coast Main line, to pass pairs of shoes per week and employ through Northampton that Northampsome 350 people on the premises. The ton Castle station was first built and a Church family remained in control until new station destroying the remains of 1999 when the company was acquired by the castle in the process. Following a the Italian Prada Group.

Today the factory produces high-class men's Goodyear welted footwear which F) Remains of Northampton Castle it sells in its own shops across the world. The only 'remaining' part of Northamp-The production process is based on the ton Castle is located just past the sta-

traditional hand-crafted method of shoe-In 1873, two brothers – Alfred and Wil- making but using a range of machinery

Maltings built in 1888 for Thomas Manning & Co of the Castle Brewery. Later By 1893, all manufacturing operations taken over by Phipps' Brewery and used

'modern rebuild' in the 1960s, the present station building opened in 2015.

moved from its original site and re-built frontage is all that remains of an exteninto the wall adjacent to the station. The sive shoe factory. Note the stone lettercastle had substantial defences and was ing forming a balustrade at eaves level so important that Parliament was held proclaiming the FOOTSHAPE BOOT there during the medieval period. It was WORKS. Taken over by Stylo Shoes in the first major Norman Castle a day's 1961 and closed in 1998. Now used as ride from London. The favourite castle offices. of King John, who visited 30 times, he moved his royal treasury to the Castle in 1) Fire Station and Public Baths 1205, and the Castle was associated with Five-storey 16-bay building fire station a mint for coins of the realm. Until 1879, building constructed in 1935. Flat roofed the castle's foundations could still be and no decoration except between the traced on the southern and western windows of the top storey. Next door is sides, and part of a round bastion on the the Grade II Mounts Baths of the same southern side, formerly the prison, was vintage. also standing.

G) Former gasworks offices

hipped slate roof built in 1880 is all that structed c1923 for the Leicester-based remains of the site of the extensive British United Shoe Machinery Co, the Northampton Gas Light Company works biggest suppliers of shoe machinery to which began here in 1824.

H) Former Barratt's shoe factory

1877, started selling 'Shoes by Post' repair shoe machinery. around the turn of the 20th century. People would draw a plan of their foot Guided walk round part of Northon paper and send it to him. The Foot- ampton's Boot & Shoe Quarter shape Boot works was built in 1913 on



tion. It is a postern gate which was this site. The impressive three-story

K) TCB - Former shoe machinery factory

Substantial 2-storey brick building with Pub/restaurant in former factory conthe UK shoe industry during the 20th century. The factory was initially used to manufacture tacks and other metal William Barratt, born in Northampton in grindery for the shoe industry, later to

In the 1850s, boots and shoes were still being manufactured in Northampton by hand, cut leather pieces being issued from warehouses located in what is now the centre of the town to be made into shoes by workers in their own homes or workshops before being sent back to the warehouse for packing and distribution. In 1857 the first stitching machines were introduced, signalling the start of mechanisation and over the next 30 years, more and more manufacturing took

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ple moved into Northampton to work in Dunster St. By 1899 he had built a furthe expanding industry, so areas outside ther 7-bay, 3 storey extension in Dunthe town centre were developed and ster St and a 4-storey block round the what is now the Boot & Shoe Quarter corner in St Michaels Rd. In c1912, GT was one of the main areas for expansion Hawkins took over the whole site, probetween the late 1860s and the 1890s. ducing walking boots until closure in This gave rise to the typical streetscape 2000. of boot & shoe factories, usually three storeys high, often on street corners, 78 Overstone Rd / Dunster St interspersed amongst the terraced hous- Three-storey factory built in 1870 for ing. In addition, there were leather facto- Frederick Fudger, leather dresser. Later, ries where skins were processed and used by other leather companies. In finished (tanning of leather usually being 1960s & 1970s, it was AI Tear's bedding carried out adjacent to the River Nene) factory. Note the wooden window as well as factories producing things like frames in top floor which would originalshoe components, wooden lasts, shoe ly have had louvres for ventilation. machinery and cardboard shoe boxes.

Today most the shoe industry has disap- Thirteen bays, 3 storeys + basement peared from the Boot & Shoe Quarter, with Dutch style gables, built in stages although we will see one factory that is from 1888. Occupied by James Collier, a still making shoes. However unlike the leather currier, for about 50 years. Intown centre, where the early shoe facto- side, iron columns and joists support the ries/warehouses have almost completely floors. disappeared, over 100 factory buildings that were used at one time or another Leather factories in Dunster St. by the shoe and leather industries still Range of single, 2 and 3-storey buildings remain, albeit in other industrial use or which were used as leather warehouses. converted into apartments. Details of all these buildings can be found in NIAG's Linen & Thread Building 113 Overstone 'A Guide to the Industrial Heritage of Rd Northampton's Boot & Shoe Quarter', Three storeys +basement with 5 bays, available for sale (£10).

on our walking route.:

Former GT Hawkins Factory

factory on the corner of St Michaels Rd two separate factory units. Note the & Overstone Rd. It was extended in entrances, taking-in doors/cranes at each 1883. In c1886, George Thomas Haw- end of the building. Earliest occupier was kins built a 10x3-bay, 3-storey shoe fac- London shoe manufacturer James

place in the shoe factory. As more peo- tory on the corner of Overstone Rd &

Globe Leather Works, 4-12 Dunster St

built in 1876. Initially the shoe factory of John Collins: later the warehouse of the Brief details of shoe & leather factories Northern Ireland-based Linen Thread Company.

Unicorn Works, 20-26 St Michaels Rd

In 1876, Hornby & West built a 3-storey Ten-bay, 3-storey factory built c1885 as

Branch.

Trickers, 56-60 St Michaels Rd

RE Tricker had a small 2-storey shoe which took place in Northampton or factory on this site by 1914. The present within the County. three-storey factory with glazed brick facade dates from 1924. Trickers still Derngate Theatre Complex produce shoes here. This was the facto- The Derngate theatre complex completry used in the production of the 2005 ed in 1983 incorporates the Royal Theafeature film 'Kinky Boots'.

62 St Michaels Rd

by Pollard & Son until the 1970s; now Phipps and Sons' five-storey shoe compart of Trickers factory.

Business Centre, 70 St Michaels Rd

Four-bay, 3-storey factory built in 1890s. Façades of former CWS warehouses It was the leather warehouse of AE Rod- At the bottom of Guildhall Road on the house.

<u>G Weed Factory, 72 St Michaels Rd</u>

Initially it was the Pedestrian Boot Facto- brick facade carries a CWS wheatsheaf ry of George Weed. By the mid-1930s it and date of 1921. The art-deco style was a grocery warehouse. Now convert- building at the northern end was coned to flats.

Guided walk in Northampton town Northampton Museum centre

Northampton Guildhall

Designed by Edward Godwin, the Victo- wide for its enormous collection of rian Gothic styled Guildhall was opened shoes and a fair quantity of old shoe main 1864. In 1889-92 a west wing was chinery. The museum closed two years added in the same style, designed by ago to undertake an expansion project, Matthew Holding. Finally an east wing spending what some might regard as illwas added in 1992 in a modern but sym- gotten gains from the controversial sale pathetic style. The Guildhall includes a of an Egyptian statue called Sekhemka. It Great Hall with murals painted by Colin is planned to reopen the museum in Gill in 1925 depicting famous men con- 2020. nected with the town. Outside, fourteen statues stand high above the street Sessions House under their canopies, one before each Built 1676-78, following the Great Fire of window, of monarchs and famous people Northampton, by Henry Bell of Kings

who had close ties with the town. In the arches of each ground floor window are sculpted scenes of historical events

tre constructed in 1887 with its classical facade fronting onto Guildhall Road. On its southern flank, the façade of poly-Three-storey factory built c1890. Used chrome brickwork was retained from ponent warehouse when the Derngate Concert hall was built behind it.

eastern side, a Cooperative Wholesale Society saleroom opened on this site in 1890. The present buildings are of later Eight-bay, 3-storey factory built in c1886. date. At the southern end a four-storey structed in 1936.

On the west side of Guildhall Road is Northampton Museum known world-

51st REGIONAL INDUSTRIAL ARCHAEOLOGY CONFERENCE SOUTH WALES AND WEST OF ENGLAND



WORCESTERSHIRE INDUSTRIAL ARCHAEOLOGY & LOCAL HISTORY SOCIETY

Saturday 4th April 2020

Elim Conference Centre De Walden Rd Malvern Worcestershire WR14 4DF

PROGRAMME

09:00	Registration, refreshments, view society stands
09:45	Welcome and Introduction
10:00	The Industrial Archaeology of Croome Park and Defford Airfield, and the Museum of Jet Flight.
	Dr Dennis Williams
11:00	Break
11:15	Stephen Ballard, Engineer and Entrepreneur of Colwall
	Pamela Hurle
12:15	Lunch in the refectory—first group
	Screening of <i>archive film: "A Pocket of Hops</i> " introduced by Mike Jack- son (20 mins)
12:35	Lunch in the refectory—second group
	Time to mingle, and view society stands
13:20	Archive film: "A Pocket of Hops" will be shown again for those who were at lunch the first time
13:45	The Magic of Malvern Water
	Dr. John Harcup OBE
14:45	The Industrial Archaeology of Worcester's Shrub Hill Station
	Mike Napthan
15:45	Summary and Close
16:00	Теа
16:30	Muster for tours and depart

POST CONFERENCE TOURS

The following optional tours have been organised for the end of the conference. Sign up sheets will be available at registration, on a first-come-first-served basis.

- A: The Elim Conference Centre: Our venue has a fascinating history and many unusual features. It was originally the large mansion of Lord Howard de Walden but was taken over as a girls boarding school early in the 20th Century. Its more recent history is as home to the Regents Theological college and headquarters of the Elim Pentecostal Church.
- B: Malvern Town Centre and water spouts. This short walking tour will also include Malvern Priory.
- C: Great Malvern Station: This tour will cover the influence by Lady Foley, the architect Edmund Wallace Elmslie, the sculptures by William Forsyth, the design style and links to the Imperial Hotel (now Malvern St. James School), rail links to Worcester, Hereford and Ashchurch. Plus changes over the years and current proposals for refurbishing the station and the Worm.
- D: Geology of the Malvern Hills. Depending on the weather, this may involve a short walk on the hills, possibly a quarry. If wet the tour will comprise a visit to the Malvern Hills GeoCentre the official visitor information centre for the Abberley and Malvern Hills Geopark, and the Malvern Hills AONB. Led
- E: The Story of Malvern Water—This tour is not confirmed, it is hoped to visit Holywell Spring and Visitors Centre to see where Malvern Water is still bottled.

COST

The conference delegate rate is $\pounds 23$ inclusive of hot, three course lunch, and all refreshments. A booking form is enclosed, which may be posted or scanned and emailed. Alternatively you may book through the website at <u>www.wialhs.org.uk</u>.

Contact Christine Silvester 01905 354679 or conference@wialhs.org.uk

Issue 55, December 2019

Booking form for WIALHS Members and their guests:

To: Christine Silvester, 12 Upper Park Street, Worcester WR5 IEX

[You may scan and email the form to <u>conference@wialhs.org.uk</u>]

Please reserve _____ places at £23 for the AIA South Wales and West Regional Conference on Saturday 4th April 2020. I enclose a cheque payable to WIA&LHS for \pounds _____.

Special dietary requirements (with numbers)

My party will be travelling by car, in _____ vehicles, including _____ blue badges Name and Address of person making booking (Block capitals)

Numbers for tours: A	B	C	D	E	
Contact Telephone No	Email:				
Other names in my party:					

Society/ Affiliation: WIALHS

If booking by post, please enclose an SAE if you require acknowledgement by post. By default we will email you. We will not retain your contact details after the conference.

Questions? Contact Christine Silvester 01905 354679

Lynn, it was Northampton's Court Sites visible from coach on route House until 1993. Grade I listed, it is out of Northampton considered one of the finest provincial courthouses in England. Of particular Former warehouse on River Nene note is the plasterwork on the ceilings, On the east bank of the River Nene, 1684-8, by Edward Goudge. The building adjacent to South Bridge, a four-storey to the left, constructed from locally 19th century brick-built warehouse quarried Northampton sandstone, was which was used for storing grain. It has the associated ludges' Lodgings.

All Saints Church

stroyed in the fire of 1675 except for the ments. west tower and the crypt below the chancel. The rest was rebuilt 1676-80, Carlsberg Brewery almost certainly to a design by Henry Carlsberg's modern lager brewery is Bell of Kings Lynn. A statue of Charles II seen on the right hand side when passing stands above the Portico as thanks for over South Bridge. It was built in the his help in restoring the town after the 1980s on the site of the large Phipps/ Great Fire.

Several medieval churches still remain in site near the river was originally the Eathe town, including the Church of the gle Foundry started by Edward Harrison Holy Sepulchre dating from 1103 and Barwell* in 1823. A book recently pubconsidered the best preserved medieval lished by NIAG, 'Edward Harrison Barround church in the country. Also the well - 19th Century Northampton Irontwelfth century St Peters Church close founder' is available for sale $(\pounds 9)$. to the site of the castle, one of the finest examples of Norman architecture in the Former Midland Railway Granary region.

Market Square

market Squares in England, the town level crossing which took to 1845 Blisbeing rebuilt around it after the Great worth to Peterborough railway line over Fire in 1675. Many of its buildings were Bridge Street, adjacent to which was controversially replaced in the second Northampton's first railway station. half of the 20th century but there are still some older buildings, particularly on **Oueen Eleanor Cross** the west side of the Square. In the north Crosses were erected by Edward I be--west corner next to the entrance to the tween 1291 and about 1295 in memory Grosvenor Shopping Centre is Welsh of his wife Eleanor of Castile, who died House which dates back to the 16th in November 1290 in Lincolnshire, markcentury.

wooden lucams at each gable end to facilitate road and river loading/ unloading. Formerly used by agricultural The medieval church was largely de- suppliers Latimer & Crick, now apart-

NBC Breweries which had been in existence since the 19th century. Part of this

Three-storey warehouse constructed by the Midland Railway c1905 for storing Dating from 1235, it is one of the largest grain. Located close to the site of the

ing the nightly resting-places along the route taken when her body was trans-



ported back to London. In Northampton, the body lay overnight at the adjacent Delapre Abbey. The cross is currently under repair and enclosed in scaffolding but the picture (right) shows what it should look like!

Weedon Military Depot (10 miles west of Northampton)

The Royal Ordnance Depot at Weedon was built between 1804 and 1816 to provide the first inland store and distribution point for small arms, ordnance and other equipment. It was constructed at a time when the threat of a French invasion was strong. Existing ordnance depots were all in the south-east of England and thus vulnerable to invasion from France.

Weedon was chosen as the location because it was centrally located in the country, on the Old Stratford to Dunchurch Turnpike (now the modern A5)

and on the brand new Grand Junction Canal which linked London to Birmingham.

As originally built, the depot contained several areas:

- Canal basin on the Grand Junction Canal with branch canal some ³/4 mile long (still extant but branch canal truncated).
- Walled compound containing eight large warehouses for storage of small arms and other military equipment on either side of the branch canal with gatehouses at either end (still extant)
- Magazine compound for storage of gunpowder in earth-filled blast houses (demolished c2000),
- Military barracks to house a troop of horse artillery (demolished c1955)
 - Block of houses for the principal officers at the depot (demolished 1970s)

The main walled compound had additional buildings added over the years as the depot was adapted to changing requirements. Most of these have been removed. In 1965 the Royal Army Ordnance Corps moved out of Weedon Depot and following a period of use by the Ministry of Supply, the walled compound passed into private hands in the 1980s.

There were several plans for its reuse, including a shopping centre and at one time it was proposed that a fire engine museum be located there. However, today under the name Royal Ordnance Depot, a private company is offering the warehouses as industrial units to let. The site today:

The ordnance canal basin still exists on zine compound (now demolished). the Grand Union Canal, today used by a boat hire company, but the link to the branch canal through the main compound no longer exists.

The main walled compound has a gatehouse across the truncated branch canal. complete with portcullis. Inside the compound only the eight original two-storey warehouses remain, four each side of the branch canal, those on the east side of the canal having an additional basement storey exposed on the downhill side away from the canal.

At the far end of the main compound a

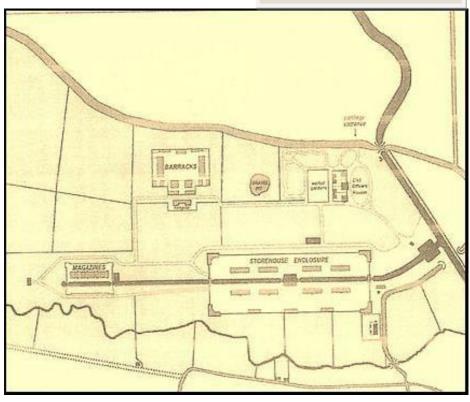
second gatehouse remains. This separated the main compound from the maga-

NIAG

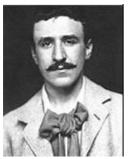
DEPOT SITE AS BUILT c1816

The major elements of the Depot can be clearly seen - the storehouses, powder magazines, barracks and pavilions.

The line running top to bottom on the right is the canal with its link into the site. The line running left to right above the barracks is the turnpike road (now the A45 west) and the wriggly line below the site is the River Nene.



78 Derngate, Northampton



Charles Mackintosh time

thinking Mackintosh

noticed in the United Kingdom but was "The Four" exhibited widely in Europe, greatly valued on the continent. An ar- both together and individually, and Mackchitect, designer, painter, and graphic intosh received commissions for furniartist, Charles Rennie Mackintosh was ture from patrons in Berlin, Vienna, and born in Glasgow in 1868. His most iconic elsewhere in Europe. building The Glasgow School of Art bears testament to his talent.

His designer, Margaret Macdonald 1864-1933 (the designer of the roses and sinewy decoration), and the marriage of her sister, Frances, to Mackintosh's close friend Herbert McNair led to the formation of a brilliantly creative group, clearly led by Mackintosh, known variously as "The Four" or "The Spook School." * A little local interest, Margaret and Frances were from the Black Country.

a lot of interest, and the Mackintoshes **Rennie** were praised when they went to Vienna. Their exhibition display had a direct in-A man before his fluence on the development of the Wiener Werkstatte formed shortly thereafter by Josef Hoffmann. Hoffmann and Our visit to 78 Mackintosh were close friends, and Hoff-Derngate got me mann visited Glasgow twice to see about Mackintosh's work, as did the influential and critic Hermann Muthesius and the how he went un- Werkstatte's patron, Fritz Wärndorfer.

Vienna Secession exhibition. This created

In Glasgow Mackintosh's greatest public exposure was through the creation of a marriage to a talented artist- number of restaurants, the tea rooms of his most enduring patron, Kate Cranston. The tea rooms provided a wonderful opportunity for Mackintosh to put into practice his belief that the architect was responsible for every aspect of the commissioned work. At The Willow Tea Room (1903) he converted an existing interior into a remarkable dramatic series of contrasting

Considerable attention was focussed the on work of Mackintosh and the "Glasgow Style" artists and designers who come from the had School of Art. In 1900 Mackintosh his and friends were invited to create a room complete with furnishings at the



interiors with furniture, carpet, wall de- commissions were 78 Derngate, Northcor, light fittings, menu cards, flower ampton, England, in 1916/1917. (Here vases, cutlery, and waitresses' uniform, we were able to appreciate his linear and all designed by Mackintosh to create a geometric designs both in textiles and coordinated setting, applying the idea of furniture.) The other being the additions art and architecture.

Despite Mackintosh's fame in Europe and Much of his work has been lost and the the numerous articles in, for example, remainder is confined to the city of Glas-The Studio magazine devoted to his gow and surrounding region. Although work, he never became a dominant force completely neglected and largely ignored in Glasgow architecture. He created the in the middle decades of this century, he private house Windyhill in 1901, a num- has now become admired and recogber of tea rooms, many works of deco- nised for his unique style. His furniture rative art and furniture, and other archi- and textile designs are now a great suctectural conversions but never had the cess, and in 1979 a writing desk he deopportunity to create a second master- signed in 1901 for his own use reached piece after the School of Art and in the the then world record price paid at aucmanner of Hoffmann's success with the tion for any piece of 20th-century furni-Palais Stoclet in Brussels (1905) which ture, £89,200. owes so much to Mackintosh's influence. The dramatic designs for the huge Inter- Charles Rennie Mackintosh died from national Exhibition in Glasgow in 1901 throat cancer in distressed circumstancwere rejected as too radical, and his es in London in 1928; his wife Margaret entries for other competitions for exam- in 1933. ple, Liverpool Cathedral were unsuccessful.

Mackintosh left Glasgow in 1915 with a notable lack of commissions and the gen-

eral building slump caused by the onset of World War I. He moved to England and then to France and created a series of watercolours of landscapes and flowers, his designs for wallpapers were rejected.

The famous white-on-white interiors of the Glasgow period were replaced by geometric black-on-black interiors which clearly anticipated Art Deco. His final architectural to the Willow Tea Rooms in Glasgow.

Eileen Porteous

* Following an exhibition of their drawings and art work in 1896 at a London Exhibition. The sinewy art form was disliked thus earning the name The Spook Group.



Victorian South Birmingham, with Tim Bridges **Tuesday 20th August 2019**

We were a select bunch, with a small Edwardian designs and two particular coach making some of Tim's manoeuvres Arts and Crafts houses in Oxford Rd, slightly easier. We began with a coffee before turning back on the Stratford Rd break at St. Augustine's parish rooms, to Sparkbrook and he Church of St Agathen the church itself. This sits central tha. Designed by W H Bidlake, in 1899 to a designed townscape lying to the replacing Christ Church, New Street, north of the Hagley Rd (and Calthorpe when demolished. estate developed from 1810). This land building, in an austere but light style, a was the estate of Joseph Gillott, a suc- modified form of the later Gothic style, cessful pen manufacturer, who lived in built in red and blue brick with stone Westbourne Road. | A Chatwin, the dressings on the outside and buff brick foremost ecclesiastical architect in the on the inside [see Owen Porteous' note city, created, in 1830, an island site, from on this and the school next door]. which St Augustine's Road would run to the Hagley Rd, plus other radiating A short journey to us to an excellent streets. The church is also largely by buffet lunch at St. Albans. This, replacing Chatwin, who won the design competi- a temporary mission of 1866, was detion, but lack of money meant the tower signed by J L Pearson in 1880, in a red (1876), Lady chapel (1930), etc. followed brick, with dressings in ashlar, but the some years later.

to a row of large Arts & Crafts houses, chapel, an unusual copper Arts and of interesting design, past other listed Crafts triptych with painted panels was building, parks, gardens and then after made by local artists Kate and Myra the main university buildings of 1909, by Bunce, in 1919. Sir Aston Webb, Winterbourne House, the former home of industrialist, John After lunch, we again circulated around Nettlefold. He commissioned | L Ball to the Moseley area before ending up at design a 'cutting-edge' Arts and Crafts Highbury, the former home of Joseph inspired design with all the modern con- Chamberlain, which was to be the highveniences of electric lighting, hot running light of this trip. It has rarely been open water and a telephone line. Rooms were to the public in the past but now, run by light and airy, with views over the gar- a trust, was opened for us for half an den.

ous estates in the Moseley area (where Joseph Chamberlain lived here from my unfamiliarity with the area left me 1880 until his death in 1914. Adjacent to lost). We saw many interesting, mainly the house were Chamberlain's famous

A Grade I listed

tower and spire were added in 1938. Imposing almshouses in a similar style sit We travelled south through Edgbaston adjacent on the east side. In the south

hour. It has been under restoration (principle rooms - some yet to be com-Crossing the Bristol Rd, we entered vari- pleted) and is needing a viable end use. orchid houses. From here a supply of and several stores, offices and workorchids was sent every few days to his shops. In this setting a useful walk London residence, when Parliament was around the church was not possible, it sitting. The gardens were once magnifi- really is hemmed in on all sides, with the cent and included a park and lake. These front entrance on the Stratford Road. are not yet restored (if ever fully), but However you cannot hide this church, its the park and lake form Birmingham's 120 ft high tower dominates the sur-Highbury Park. An £8m fundraising cam- roundings. paign was launched in 2018 to restore the building (mow leased from the City) The exterior is Gothic style with Arts and parkland. The aim is to open High- and Crafts overtones, with blue tinged bury to the public, create an exhibition red brick and stone dressings here and on the Chamberlains' lives and history of there. Inside, the church is impressively the hall (temporary boards hung in the high with light reflecting yellow/grey study), plus and a café, as well as spaces brick walls and piers and stone for archfor weddings and conferences; but this is es and mouldings, all leading up to a for the future.

ing at some of the more unusual houses, before tea in the Friends Meeting House.

St Agatha's Church and Nostalgia

On our tour of some Birmingham churches we had just left the Edgbaston suburb near Hagley Road and had visited St. Augustine's church set amidst its own little green and leafy island. Later, sitting on our coach we had fascinating glimpses, right and left, of much of Birmingham's considerable 19th century housing, churches and public buildings. Some shabby or care worn while others looked in great condition, standing proud. This took us to Sparkbrook, an area in which I worked as a teacher in the early 1970's. Our specific visit was to St. Agatha's church on the Stratford Road near Ladypool Road of 'Balti Triangle' fame. The church is squeezed between the school where I briefly worked

wooden ceiling entirely replaced to the original design in 1961 after a fire two We finished the day in Bourneville, look- years earlier. Other original furnishings were also destroyed, apart from the pulpit. Bomb damage in 1940 damaged the chancel and east window, and evidence Mike Hayzelden of renewal is evident in slightly yellower brick.



To me it seemed a remarkably re- doorways, terracotta mouldings and mostrained, beautifully plain building, sur- saic also seemed in good order. Howevprising for a church obviously engaged er the ventilation tower was severely with Anglo-Catholic liturgy. The church damaged in a local tornado in 2005 and it was built from 1899 to 1901 to a design was dismantled and its parts put into by WH Bidlake. The whole project fund- storage. I remember from the 70's the ed by the sale and demolition of Christ lovely curved iron ceiling ribs in the as-Church on what is now called Victoria sembly halls with classrooms leading off. square in the city centre (Christchurch passage or steps are still there at the top The area seemed to me to be as busy of New street.)

Ladypool primary school is next to St. ished or replaced. Agatha. You can see the Martin and Chamberlain 1885 design, largely intact, from Stratford Road with the caretaker's

house nearest the road. The original

and active today as in the 1970's although much housing has been demol-

OWEN | PORTEOUS

Visits to Tardebigge Lime Kilns with Bill Lambert 8th and 22nd June 2019

cottage to set the scene. The kilns were might jeopardise their stability. at the side of the basin where we started, but from the canal embankment, we

could see the extent that the kilns construction had made use of the valley running alongside. Returning to the basin we took the circuitous path down to the base of the kilns, where their structure was more evident. I had been here a few years ago, but other than portions of brickwork, loose bricks and heavily undergrowth on soil banks, there was not

We met on a warm, dusty afternoon at much visible then. There is still much to the wharf buildings, beginning with re- excavate, when the existing, now visible freshments, before walking along the stone walls, are consolidated, as removcanal to the top lock and lock keeper's ing much more soil from inside the kilns

Mike Hayzelden



Coach Trip to Bristol Area Sunday 1st September 2019

Clifton Observatory

A bright clear warm day saw us make excellent time down the M5 on a Sunday morning, in good time for the opening of the observatory at 10:30am, some for the café others the camera obscura or the cave.

Dating back to 1766 the Clifton Observatory began life as a windmill for corn

snuff (tobacco), when it came known as Whilst excavating the foundations West 'The Snuff Mill'. Associated with luxury discovered natural caves. He excavated a and excess, it is unsurprising that Bristol 200 feet (61 m) long tunnel connecting needed its own snuff mill to keep up with his Observatory to the 'Giant's Cave', the demand from the wealthy land own- also known then as St Vincent's Cave ers and merchants

It was derelict for over 50 years follow- feet (76 m) above the floor of the Avon ing a fire in 1777, during a gale when the gorge and 90 feet (27 m) below the cliff sails were left turning. In 1828 William top. The tunnel took two years to build West, an artist based in Bristol, rented and first opened to the public in 1837. the Observatory as his studio. West transformed the old mill into the building Aerospace Bristol at Filton we recognise today by installing a large telescope into the tower and creating We drove to the Filton museum for the Observatory. In 1829 West replaced lunch, which is located on the historic the telescope with a camera obscura Filton Airfield, where every British Con-[note: I had been bemused as I could find corde made her maiden flight. no reference in their web pages nor in the exhibition of when this occurred, so The manufacture of aeroplanes started in had to resort to Wikipedia], a 13cm con- 1910, when Sir George White, the ownvex lens and sloping mirror were in- er of Bristol Tramways, established the stalled on top of the tower projecting British and Colonial Aeroplane Company panoramic views of the iconic Clifton in the maintenance sheds of Bristol



and later converted to the grinding of Suspension Bridge and surrounding area. (or Ghyston's Cave), which opens onto St Vincent's Rocks on the cliff face, 250

Page 30

Issue 55, December 2019

Tramways. In 1915, as the Aircraft ments in other fields, space and undersea Works expanded over the original flying exploration. Only one example of the area, the Royal Flying Corps established Bristol car appears in the display and also Filton Airfield in fields at the bottom of a lorry. Post war manufacture was di-Filton Hill.

Aero-engine production started close to Filton Airfield, with the acquisition of The museum itself is housed in the First Cosmos Engineering in 1920. In the same World War hangers of 1918, by the year, the British and Colonial Aeroplane War Office's Directorate of Fortifica-Company became the Bristol Aeroplane tions and Works. Walls, buttresses, cen-Company, often abbreviated to BAC. tral piers and door 'pylons' in brick, cur-

tain walls half-brick thickness in cheaper bricks. softwood 'Belfast' roof trusses. corrugated steel door cladding and later profiled steel roofing. They are listed Grade II. Sited to the north of George White's Sir aircraft factory of 1910 this part of Filton was developed as an Aircraft Acceptance Park for the reception and final assembly of air-

craft from factories

Squadron RAF was based at RAF Filton. bution to operational squadrons. These The squadron was equipped with Hawk- buildings, that survive are the most comer Hurricanes by 1939 and formed part plete on any of these types of sites in of the British forces sent to France. By existence. the Second World War the Bristol Company supplied engines for nearly half The Concorde exhibition is in a sepathe world's airlines and more than half rate, new hanger. The aircraft is British the world's air forces, and in the Second Airways Concorde (G-BOAF), which World War it provided a third of the first flew on 20th April 1979 and made RAF's engines.

The museum holds a wide variety of flight time was 18,257 hours. exhibits from both wars and civil aviation periods as well as subsequent develop-

From 1929 the No. 501 (City of Bristol) and their flight testing, storage and distri-

the last ever landing of a Concorde, at Filton, on 26th November 2003. Its total

Mike Hayzelden



verted for a time to prefab buildings for the post war reconstruction.

Photos from Other Visits

The Newsletter has not been supplied with reports from two events this year, but Mike Hayzelden has, as always, made his excellent photos available. Here are a couple from the many available



The Walled Garden Party, near Fort Royal, Worcester, 24th July 2019



Halesowen & Leasowes visit, 17th June 2019

AN UNUSUAL MILL - RÁCKEVE BOAT MILL



In recent years our Summer Program attractions. has included trips to several interesting water mills of different design in and A boat mill (or ship mill) comprises one around Worcestershire, e.g. the visit to or more undershot waterwheels at-Churchill Forge last year to see a fine tached to a boat that contains the milling working example of the overshot style. machinery. The first recorded examples During the recent Association for Indus- date to the mid 6th Century in Italy. trial Archaeology (AIA) Spring Tour to The water wheels were usually mounted Hungary in April, we visited a mill unlike on one side although, apparently, in anything we have seen here in the UK.

some 120 Km South of Budapest along a the Danube and by the middle of the route close to the Danube to visit to the 19th Century there were more than nuclear power station at Paks. On our 4000 boat mills in Hungary alone. The return journey, about half-way back to particular advantage was that milling Budapest, the Danube divides into two could continue whatever the height of separate channels forming an elongated the river, which can vary by 7-10 metres. island and here we made a short detour The miller paid a charge for his mooring to Ráckeve. The town is situated on the according to the quality of river flow and island close to the eastern arm of the the mill would be moved away to be mighty Danube and the restored dismantled for safety during the winter. Ráckeve boat mill moored on the river It seems that the Rácheve Mill was here has become one of the town's prize among the last of its type to survive until

some cases they were placed on either side in the manner of a paddle steamer. The morning of the tour had taken us This became a popular form of mill on



it too fell into disuse and was destroyed duce flour. by ice during hard frosts in 1968. Fortu- found at: nately, remnants of the mill remained in https:// a backwater and were then moved to www.industrialheritagehungary.com/02the open-air museum at Szentendre.

In 2006, the Municipality of Rácheve For a full description of the April AIA started an ambitious restoration project tour to Hungary see: John Copping which led to the reconstruction of a fully (2019) Industrial Archaeology News, -functional replica of the original mill 190, 2-5. based on written records, photos and drawings. This took three years to accomplish and. while the boat and two

water wheels are new, being a superb example of highly skilled carpentry, it seems that the milling machinery inside the boat is all original having been rescued from the mill that had worked during the early part of the 20th Century. Being a fairly "modern" example of its type, the grinding wheels are of steel rather than the

stone that would of course have been found in earlier mills.

The Ráckeve boat mill is now operated by means of an electric motor concealed beneath the floor which also drives the two paddle wheels (the blades being free to rotate) and this gives a very good impression of how the whole thing operates. The mill is functional and regularly works to pro-

More information can be

Industrial-Heritages/01-Food/rackeveboat-mill.html

Hugh & Jenny Field



Excavation at site of Russell Pipe Manufactory Cripplegate Park, Worcester

An independent research project into Members of a local archaeology group clay tobacco pipe making in Worcester completed a geophysical survey in April was completed in 2018. The evidence 2019 and decisions on the timing and strongly indicated the existence of an old location of the excavation were made pipe kiln and associated works within after the results were reviewed. and below what is now a children's play area.

Cripplegate Park has Green Flag status es were opened and the excavation was and is managed by Worcester City carried out by trowels and hand shovels. Council. The council has an active ar- Detailed photographic records were chaeology department that presides over kept of the progress and specific finds. the heritage of the city alongside a Com- Finds washing, drying and bagging was munity Engagement department. These carried out on site ready for later catathree bodies were approached at the logue and assessment. end of 2018 with a proposal for a smallscale archaeological excavation at the A number of finds were made covering outlined site. This proposal was ap- the period following the English Civil proved within defined terms.

Funding was provided in-kind and in fi- been subject to several periods of demonancial awards from the council, the lition, the last one being in the early Mick Aston Archaeology Fund managed 1970s. by the Council for Archaeology

Fragment of a

(Worcester Art

Russell Pipe

Gallery and

Museum)

and the Garth Raymer fund managed by the local Worcestershire Archaeology Society.

Members of two local archaeology groups provided manpower for the excavation while a local kiln specialist provided important guidance on kiln

design and structure.

The excavation was carried out for one week in September 2019. Three trench-

War through to modern times. The area of the site and adjacent buildings had



1868.

ture were recovered and identified. portant outcome of the work and this These are more difficult to date but their enhanced the Green Flag status of the presence was important evidence sup- park through engagement and heritage. porting the archive records of a kiln on A final report will be submitted to the

the site. On the final day of the excava-Tobacco clay pipe bowls and stems were tion, a section of a structure was found recovered and the signature changes in at a depth of 1.2 m., which could be part style were used to date them from the of the kiln described in archives and mid 17th C through to the period of the maps. This was a validation of the proend of the Russell Pipe Manufactory circa ject design and represents an opportunity for further excavation.

Examples of kiln fireclay bricks and furni- Interest from local residents was an im-



Section of the Kiln Structure found on the final day

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national HER scheme.

Roger Moore

Note: WIALHS has provided support to this project, primarily through Malcolm Nixon who has been providing advice and reviewing documents. As a result of this an Occasional Paper is planned for 2020—watch this space! Ed.



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2019/2020

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Roger Tapping

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Committee Members:

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