



## SUSSEX INDUSTRIAL ARCHAEOLOGY SOCIETY

NEWSLETTER No. 6.

Edited by A.J. Haselfoot & E.O. Taylor

April 1975

### SIAS NEWS

#### PROGRAMME OF VISITS - SUMMER 1975

APRIL 26th. SATURDAY - Visit to ROBERTSBRIDGE AND ROLVENDEN as already announced. ROBERTSBRIDGE in the morning, assembling at the Railway Station (TQ.734235) at 11.30 a.m. and the KENT AND EAST SUSSEX RAILWAY PRESERVATION SOCIETY'S DEPOT AT ROLVENDEN LAYNE (TQ.864328) in the afternoon. Assembly time at Rolvenden, 2.00 p.m.

MAY 17th. SATURDAY - ALL DAY VISIT TO MIDHURST AND DISTRICT, West Sussex, arranged by Mr. Victor Mitchell. Assembly point: North Street car park at 11.30 a.m. The afternoon programme will comprise a tour by coach to a number of places of industrial archaeological interest around Midhurst. (A charge of 50p. will be made to cover the cost of the coach). The size of the party will be limited to 35 by the size of the coach: first come, first served so please return acceptance slips as early as possible.

JUNE 18th. WEDNESDAY - Half-day visit to LUNSFORD BRICK CO. LTD. Works (Redland Group) in TURKEY ROAD, BEXHILL-ON-SEA, East Sussex (TQ.719094). Assembly time 2.30 p.m. (Ladies: Flat-heel shoes suggested).

JULY 19th. SATURDAY - ALL DAY VISIT TO CHICHESTER, West Sussex. Notes, programme, assembly point, times, etc., will be sent to those returning acceptance slips.

SEPTEMBER 6th. SATURDAY - Half-day Visit to NEWHAVEN AND LOWER OUSE VALLEY. Notes, programme, assembly point, times, etc., will be sent to those returning acceptance slips.

#### FURTHER POSSIBILITIES

There is the possibility of a visit in AUGUST to a former flour mill, now specialising in Agricultural Feedstuffs. The visit would be on a working week-day which explains the choice of August as members may be able to attend on a week-day during this holiday month.

Arrangements will be made for an evening visit later in the Summer to see the water mill at Batemans, Burwash, in operation. This mill, built about 1750, ceased working in 1903 but has since been restored to working order by a project team which included several members of our Society. The visit would probably be in late August or early September, and, owing to space considerations, would be limited to 30 persons. Details of these visits will be given in the July Newsletter.

A separate sheet of acceptance slips is enclosed.

H.A.G.

Meetings A meeting of West Sussex members was held in the Village Hall, Pulborough on the evening of 18th March with Mr. J.M.H. Bevan in the chair, when various projects and activities were discussed. Amongst these was the urgency of investigating the large West Sussex estates which so often had a lot of industrial archaeology associated with them, such as brick-making, brewing, milling, baking, weaving, charcoal-burning and water-pumping. Volunteers were required for research in the family records of these estates, as well as for field work, and anyone willing to help in this work should get in touch with the West Sussex Secretary.

The old salt panning industry of the County was another side that needed more investigation and recording and members having information of this industry, or volunteers willing to carry out research and field work, are asked to get in touch with the General Secretary or the West Sussex Secretary, whose addresses are given at the end of this Newsletter.

Mr. Allnutt, who is a member of the WSCC Coast & Countryside Committee's Advisory Panel, said that tentative plans for the extension of the Bluebell Railway's line to East Grinstead were generally approved in principle.

For European Architectural Heritage Year, Mrs. Pat Gill, of the WSCC Record Office was trying to set up a photographic record of the County as it is in 1975, including new buildings as well as old ones. Anyone having photographs suitable for such a record should get in touch with Mrs. Gill.

It was agreed that the next indoor meeting should be held in October or November, possibly at Midhurst, Arundel or Chichester.

The meeting concluded with a showing, by Mr. J.C.V. Mitchell, of a colour film of Terwick Mill, working, in 1964.

Projects The restoration of Batemans Mill is now complete and the mill has ground flour again after more than 70 years of idleness. An evening visit will be arranged later in the summer for members to see the mill working.

The work at Ifield Mill is going ahead rapidly. The roof has been repaired, floors renewed and the replacement of main timbers where necessary is now in hand. Most of the items for the repair of the water wheel are now available and clearance of the mill stream will start as soon as weather permits. Mains electricity is now available, with lighting on all floors and some power points. The building at Hammonds Mill is now due for demolition and arrangements have been made for the removal to Ifield Mill of the water wheel, pentrough and sluice, cast-iron hursting, pit wheel, wallower and vertical shaft as soon as these can be released. Volunteers are still urgently needed for week-end work in the Spring and Summer. Anyone able to help should get in touch with Mr. E.W. Henbery, 10, Mole Close, Langley Green, Crawley: Telephone, Crawley 23481 (evenings).

At Horstead Keynes, as a result of representations made by Mr. F.W. Gregory and others, a development threat to the old mill building has been averted. It is hoped that it will be possible to restore the mill to working order again.

At Cobb's Mill an application has been made to the Historic Buildings Council by the Society on behalf of the owner for a grant for the restoration to working order of this most unusual and important installation which includes a gas-engine as an auxiliary drive.

At Washington Lime Kilns, Mr. R.H. Fox reports that a further kiln has now been revealed as a result of scrub clearance in connection with a low voltage power-line across the site.

Publicity The Society hopes to take a Stand, possibly in co-operation with other organisations, at the Southern Counties Show at Ardingly in June, with a view to getting better known in the County and increasing the membership. A poster has been prepared for sending to all museums, libraries and Centres of Further Education in the County.

One of the best ways of increasing our membership is for all members to recruit others; so tell your friends all about the Society and persuade them to join us. Several recruits have already been obtained in this way, thanks to individual members' efforts.

A.J.H.

Newhaven Forts Mr. J.H. Farrant has reviewed a recent pamphlet about these and writes as follows:

R.J. Goulden & A. Kemp, Newhaven and Seaford Coastal Defences (1974), 16pp., plans, price 20p from R.J. Goulden, 11, Guthrie St., Chelsea, London S.W.

The meat of this pamphlet is in its descriptions of three successive forts on, or at the foot of, Castle Hill, Newhaven: the first built in 1760, the second in 1855, and the third in 1864-70 (and disbanded in 1956). Primary sources have been used, presumably War Office records in the P.R.O., but unfortunately no references are given (nor do all the plans have scales and north points). It is a useful contribution to our knowledge of the defences of Sussex, and it is cheering that proceeds from sales will go towards the costs of excavating and preserving the West Foreshore lunet batteries and to the support of the nearby museum. J.H.F.

Address List of Members Please note the following changes to the list of members dated 31st August 1974.

- A. EAST SUSSEX Delete: BRYANT, C.S.  
Add: BURTON, D.P., 3 The Shrublands, Cooden, Bexhill-on-Sea. TN39 3SJ.  
FUNNELL, B. "Sussex House" 30 Silchester Road, St. Leonards-on-Sea.  
WOOD, R.D. "Apex" Icklesham, Rye.
- B. EASTBOURNE AREA Delete: HADDRELL, A.E.
- C. NORTH EAST SUSSEX Delete: PREW, Miss R.
- D. BRIGHTON AREA Delete: FLOOD, G.D.  
HORNSBY, W.J.  
STEVENS, Mrs. T.M.  
THORNBURGH, R.H.P.
- F. CENTRAL SUSSEX Add: PHILLIPS, I.R. c/o Bramble Mead, Balcombe, Haywards Heath, RH17 6HU.
- G. NORTH SUSSEX Delete: PHILLIPS, I.R.
- Members resident outside the County  
Delete: RICKETT, C.H.  
Add: MOFFAT, B. c/o Polytechnic of North London, Dept. of Geography, Marlborough House, Holloway Road, London, N.7.

#### SUBSCRIPTION REMINDER

All Subscriptions were due on 1st APRIL. If you wish to continue your membership, please send the appropriate subscription to the Treasurer:

G.P. BURSTOW, 6, Walpole Terrace, BRIGHTON, BN2 2EB.

Full Membership £2.00

Family Membership £1.00

Full-time Students

and Members under 18 50p.

Better still - send a Bankers Order.

#### SHORT NOTES

Dr. John Butt has intimated that he is relinquishing the Editorship of 'Industrial Archaeology' and expresses his very grateful thanks to all those groups and individuals who have helped and supported the Journal in the past. We are pleased to note, however, that Dr. Butt is continuing as Editor for the Association for Industrial Archaeology. The new Editor of the Journal is Dr. R. Burt, Department of Economic History, University of Exeter, Streatham Court, Rennes Drive, Exeter. EX4 4PU.

The Annual Conference of the Association for Industrial Archaeology is to be held at Trevelyan College, Durham from Friday 12th September to Sunday 14th September. (Cost £13.50). Proposed lecture subjects include coal mining and the Stockton and Darlington Railway and there will be a choice of excursions. Details and booking form from: M. Brook, Conference Secretary, A.I.A., 15, Widecombe Ave., Stafford. Tel: 61638.

Bulletins 1.3 and 1.4 of the A.I.A. contain, amongst other items, references to the restoration of Captain Brown's Union Suspension Bridge across the Tweed near Berwick, the Centenary of the Sharpness Dock on the Severn Estuary, the Wheal Martyn Museum now being established at St. Austell, Cornwall and an amusing article on the 'Fade Out' theatre, plans and castings of such a theatre at "Oilbrookdale", Shropshire, having recently been "discovered".

A Summer School on the Industrial Archaeology of Manchester and its Region is to be held at the Manchester College of Adult Education from 27th July to 2nd August, the lectures and visits being devoted primarily to the cotton industry, coal mining and canals. Residential accommodation will be available at Manchester University Halls of Residence. Cost (excluding transport) £28.00 for residential students, £3.00 for non-residents. Details from Mr. D.D. Brumhead College of Adult Education, Cavendish St., All Saints, Manchester, M15 6BP.

The Institution of Electrical Engineers (History of Technology Group) is also arranging a week-end meeting in Manchester from 11th to 13th July; this will include a visit to Ferranti Ltd., Hollinwood, where their archives and some early machines will be on view. Details from I.E.E., Savoy Place, London, WC2R 0BL.

The Inland Waterways Amenity Advisory Council has published a Statement defining their recommended policy for the objectives and planning of canal developments and a brief Report as submitted to the Home Office Working Party on Water Safety. Copies of both documents may be obtained from our Hon. Secretary, Mr. A.J. Haselfoot. E.O.T.

INDEX OF C. B. A. CARDS ; PART II : EAST SUSSEX

<u>PARISH/TOWN</u>	<u>1" O.S. MR.</u>	<u>SUBJECT</u>	<u>REPORTER</u>	<u>STATUS</u>
ARLINGTON	TQ.557093	Michelham Priory Watermill	F.W. Gregory	
ASHBURNHAM	TQ.685170	Ashburnham Furnace	F.W. Gregory	
ASHBURNHAM/BATTLE	TQ.704148	Milestone	B. Austen	
" "	TQ.716157	"	B. Austen	
" "	TQ.724171	"	B. Austen	
ASHBURNHAM/BATTLE	TQ.724171	Milestone	J. Martin	
BEXHILL-ON-SEA	TQ.733087	Windmill	F.W. Gregory	(D)
	TQ.482373	Watermill	F.W. Gregory	
BREDE	TQ.814178	Pumping Station	A.J. Haselfoot	
BRIGHTLING	TQ.686201	Water-Driven Sawmill	F.W. Gregory	
BRIGHTON	TQ.314052	SMITHY. Now at Stanmer	F.W. Gregory	
BURGESS HILL, WORLD'S END	TQ.321198	Bakehouse	L.A. Pearson	
BURWASH, BATEMANS	TQ.670236	Park Watermill	F.W. Gregory	
BUXTED	TQ.493262	High Hurstwood Water- mill	F.W. Gregory	
BUXTED	TQ.494235	Buxted Watermill	F.W. Gregory	
CHAILEY	TQ.387214	Chailey Windmill	F.W. Gregory	

INDEX OF C.B.A. CARDS : PART II : EAST SUSSEX Cont'd.

PARISH/TOWN	1" O.S. MR.	SUBJECT	REPORTER	STATUS
CLAYTON	TQ.300176	Hammonds Watermill	F. W. Gregory	
CLAYTON	TQ.303134	Windmill (Jill)	F. W. Gregory	
CLAYTON	TQ.303134	Windmill (Jack)	F. W. Gregory	
COWDEN	TQ.474399	Iron Milestone	B. Austen	
COWDEN	TQ.481386	Iron Milestone	B. Austen	
CROWBOROUGH		Boilerhouse, Horder Centre.		
CROWHURST	TQ.746121	Forewood Pumping Stn.	A. J. Haselfoot	(D)
CUCKFIELD	TQ.297237	Highbridge Watermill	F. W. Gregory	
CUCKFIELD	TQ.319212	Valebridge Watermill	F. W. Gregory	(D)
EAST GRINSTEAD	TQ.392368	Dunnings Watermill	F. W. Gregory	(D)
FLETCHING	TQ.416257	Sheffield Watermill	F. W. Gregory	
FOREST ROW	TQ.416353	Brambletye Watermill	F. W. Gregory	(D)
FRISTON	TQ.548988	Friston Place Donkey Wheel	F. W. Gregory	
GROOMBRIDGE	TQ.530374	Milestone	B. Austen	
GUESTLING	TQ.846124	Horse Gin	A. J. Haselfoot	
HARTFIELD	TQ.456327	Newbridge Watermill	F. W. Gregory	
HARTFIELD	TQ.469310	Iron Milestone	B. Austen	
HARTFIELD	TQ.471324	Iron Milestone	B. Austen	
HARTFIELD	TQ.477353	Iron Milestone	B. Austen	
HARTFIELD	TQ.478338	Iron Milestone	B. Austen	
HASTINGS	TQ.822095	West Hill Lift	A. J. Haselfoot	
HASTINGS	TQ.827095	East Hill Lift	A. J. Haselfoot	
HEATHFIELD, PUNNETS TOWN	TQ.627208	Blackdown Windmill	F. W. Gregory	
HELLINGLY	TQ.582114	Horsebridge Watermill	F. W. Gregory	
HELLINGLY	TQ.585124	Hellingly Watermill	F. W. Gregory	
HERSTMONCEUX	TQ.647122	Windmillhill Mill	F. W. Gregory	
HOLLINGTON	TQ.787122	Timber Barn	A. J. Haselfoot	
HORSTED KEYNES	TQ.380287	Horsted Watermill	F. W. Gregory	
HORSTED KEYNES	TQ.380287	Horsted Watermill	R. Fry	
HORSTED KEYNES	TQ.383282	Blacksmith's Shop	R. Fry	
HORSTED KEYNES	TQ.384281	Wheelwright's Shop	R. Fry	
HOVE	TQ.278068	W. Blatchington Windmill	F. W. Gregory	
HOVE	TQ.286066	Goldstone Pumping Stn.	F. W. Gregory	
HURSTPIERPOINT	TQ.274188	Cobb's Watermill	F. W. Gregory	
HURSTPIERPOINT	TQ.287212	Leigh Watermill	F. W. Gregory	(D?)
HURSTPIERPOINT	TQ.294179	Ruckford Watermill	F. W. Gregory	
ICKLESHAM	TQ.887160	Hog Hill Windmill	F. W. Gregory	
IDEN/RYE	TQ.936244	Iden Lock & Cottage	A. J. Haselfoot	
KENT/SUSSEX	TQ.940243	Cnty. Boundary Stone	A. J. Haselfoot	
KEYMER	TQ.321162	Oldland Windmill	F. W. Gregory	
LEWES	TQ.408093	Water Pumping Station	F. W. Gregory	(D)
LEWES	TQ.411100	Tablet Milestone on Wall of Building	B. Austen	
LINDFIELD	TQ.353262	Dean's Watermill	F. W. Gregory	
LINDFIELD	TQ.377258	Cockhaise Watermill	F. W. Gregory	(D?)
MALLING/LEWES	TQ.426123	Toll House, 1752	G. D. Flood	



INDEX OF C.B.A. CARDS : PART II : EAST SUSSEX Cont'd.

<u>PARISH/TOWN</u>	<u>1<sup>st</sup> O.S. MR.</u>	<u>SUBJECT</u>	<u>REPORTER</u>	<u>STATUS</u>
MARESFIELD	TQ.457264	Boringwheel Watermill	F. W. Gregory	
MAYFIELD	TQ.570283	Argos Hill Windmill	F. W. Gregory	
MAYFIELD	TQ.591249	Moat Watermill	F. W. Gregory	
NEWTIMBER	TQ.273114	Saddlecombe Farm Donkey Wheel	F. W. Gregory	
NORTHIAM	-	Tilton Farm Oast House complex	J. A. Mudge	
NUTLEY	TQ.451291	Nutley Windmill	F. W. Gregory	
PATCHAM	TQ.291087	Waterhall Windmill	F. W. Gregory	
PATCHAM	TQ.294092	Water Pumping Station	F. W. Gregory	(D)
PLAYDEN/RYE	TQ.993227	Scots Float Lock and Sluice	A. J. Haselfoot	
PLUMPTON	TQ.363147	Upper Mill, Watermill	F. W. Gregory	
PLUMPTON	TQ.363150	Plumpton Watermill	F. W. Gregory	
POLEGATE	TQ.580040	Polegate Watermill	F. W. Gregory	(D?)
POLEGATE	TQ.581042	Polegate Windmill	F. W. Gregory	
RINGMER	TQ.459131	Horse Gin (Now at Wil- mington Priory Museum)	A. J. Haselfoot	
ROBERTSBRIDGE	TQ.736242	Hodson's Watermill	F. W. Gregory	
ROTTINGDEAN	TQ.366025	Windmill	F. W. Gregory	
ROTTINGDEAN	TQ.375021	Former Brighton Mortuary	J. A. Mudge	
RYE	TQ.901192	Horse Gin Housing	A. J. Haselfoot	
RYE	TQ.920199	Brede River Lock	A. J. Haselfoot	
SHEFFIELD PARK	TQ.411247	Sandstone Milestone	B. Austen	
SLAUGHAM	TQ.258277	Watermill	F. W. Gregory	
ST. LEONARDS	TQ.798105	Silverhill Windmill	F. W. Gregory	(D)
STANMER/BRIGHTON	TQ.335095	Stanmer House Horse Gear	F. W. Gregory	
STANMER	TQ.337097	Donkey Wheel	F. W. Gregory	
TICEHURST	TQ.654269	Withersden Watermill	F. W. Gregory	(D)
TICEHURST	TQ.689323	Dunster's Mill	F. W. Gregory	(D)
UCKFIELD	TQ.452213	Shortbridge Watermill	F. W. Gregory	(D)
UCKFIELD	TQ.483217	Hempstead Watermill	F. W. Gregory	
WADHURST	TQ.608338	Milestone	B. Austen	
WADHURST	TQ.646309	Milestone.	B. Austen	
WALDRON	TQ.557218	Cross-in-Hand Windmill	F. W. Gregory	
WESTHAM	TQ.624043	Stone Cross Windmill	F. W. Gregory	
WINCHELSEA	TQ.902176	Windmill	F. W. Gregory	

Under column 5; "status" (D) indicates that the subject of the card has been "Destroyed".

H.A.G.

THE STOCKTON AND DARLINGTON RAILWAY

by W. R. Beswick.

Members may like to note that in September of this year the 150th anniversary of the opening of the Stockton and Darlington Railway takes place. As in the case of the 1925 Centenary celebrations there will be a cavalcade of locomotives; the writer was present on that occasion and very impressive it was to stand beside the line of the old railway and see the whole sequence of

locomotive history pass by, including Stephenson's 'Locomotion' which was taken from its stand in Darlington station for the purpose. 'Locomotion' was not then steamed but was powered by an electric motor, waste rags and oil being burnt under the boiler to simulate the real thing. This year a working facsimile of 'Locomotion' has been built in the North East as the intervening years on Darlington station have left the old engine in too frail a condition to venture another run.

The boiler of the facsimile has been built in the Darlington works of Whessoe Ltd., who originated as William and Alfred Kitching and who built 27 railway engines between 1834 and 1860, including the 'Derwent' which also stands on Darlington station. It was William Kitching's father, another local Quaker Robert Pease, George Stephenson himself and other local businessmen who formed and financed the Stockton and Darlington Railway. The first meeting of the Board took place on neutral ground at Yarm-on-Tees.

The construction of the railway was largely due to the desire of the inhabitants of Tees-side to procure coal at a lower cost than could be achieved by the use of the turnpike road. Coal at the Durham pits cost 4 shillings per ton but at Darlington, only 12 miles away, it cost 11 shillings and the 18 miles to Stockton raised it to 17 shillings; arguments had extended over many years as to the merits of building a canal, this being favoured by Stockton while Darlington favoured the railway. For some years after the 27 miles of line were built from Stockton through Darlington and on to the coalfields it was run rather on common turnpike lines, anyone paying the toll being free to use it, and it was not until 1830 that the Directors fixed the time of departure for passenger coaches. Throughout, however, the mineral traffic was the Bonanza and by 1860 the line was feeding over 100 North-East Coast blast furnaces with coal and by 1881 the number was 160 of which 138 were on Tees-side using the original line; in addition there were about 1000 puddling furnaces for steel making to be fueled.

#### GAS PRODUCERS

by W. R. Beswick.

At Cobb's Mill (TQ.275190) there remains in good condition a suction gas producer which must be one of the very few examples remaining in the southern counties of what was once a widely used type of plant. In this case the installation serves a Tangye single-cylinder horizontal gas engine of about 25 h.p.

The gas producer provides a low-calorific-value gas of about 145 British Thermal Units per cubic foot by means of partial combustion of virtually any carbonaceous matter but for small gas-engine use, as in the case of Cobbs Mill, a graded anthracite or coke would be used. The engine itself provides the suction which draws combustion air into the base of the producer; the resultant gas is cooled with a water spray and cleaned in a sawdust and wood-clipping scrubber before entering the engine. The fuel consumption would be about 1 lb. of anthracite per brake-horse-power hour.

Larger production plants were frequently met with up to the 1950's serving large industrial operations. Such big plants were fully mechanised both as to fuel feed and ash extraction and operated under pressure from a motor-driven blower. A plant of this type ran for many years at the Mountfield works of British Gypsum Ltd. During the last war many hundreds of gas producers were installed in factories as a precaution against curtailment of the public electricity supply due to enemy action and also to provide a gaseous fuel where no other could be made available as, for instance, at shadow factories. Amongst others the Churchill Tank and Rolls Royce aero engine factories operated to a considerable extent on large mechanical gas producer plants; at the Chelmsford factory of Hoffman Ball Bearings Ltd., both gas engines and heat-treatment furnaces were supplied with gas from one large plant. It was, incidentally, at that factory that the first dual-fuel oil/gas engine was installed in the U.K. by Dr. Diesel.

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#### OFFICERS

Chairman: W. R. Beswick, Turners House, Turners Green, Heathfield.  
Vice-Chairman: P. Adorian, The Mill House, Gibbons Mill, Billingshurst.  
Treasurer: G. P. Burstow, 6, Walpole Terrace, Brighton, BN2 2EB.  
Gen. Secretary: A. J. Haselfoot, Albion House, Cobourg Place, Hastings, TN34 3HY.  
W. Sussex Sec: A. G. Alfnutt, 23, Beech Avenue, Chichester, PO19 3DR.  
Programme Sec: H. A. Gordon, 34, Terminus Avenue, Bexhill-on-Sea, TN39 3LZ.