THE OCCASIONAL NEWSLETTER OF THE OLD LOCOMOTIVE COMMITTEE

LIONSHEART

Number 39

MARCH 1996

The Editor's Bit

I received some mild but useful criticism recently as a direct result of the Model Engineer Exhibition. I was so proud of the drawing that I'd produced for the OLCO stand that I hadn't checked the lettering on the Lion nameplate or on the drawing headline. As the original drawing progressed, I tended to leave in chain dot those items that I had not measured accurately from the prototype, as an indication that work in that area was still required. So it was with the nameplate. However, when the need for a drawing at the exhibition became apparent, I took a copy of the drawing in progress(So easy with computer aided draughting), changed most of the chain dot to solid, blacked in the nameplate lettering and printed it off. The tender, which I have not begun to measure yet was copied onto the print with black biro from a Charles Taylor-Nobbs drawing on page 440 of Model Engineer dated 19th April 1985. The whole lot was then blown up on an industrial plan printer(really just a giant photocopier) and sent to Peter Gardner, who took it, with every model displayed on our stand, up to Olympia.

No sooner had the exhibition opened it seemed than I received a letter from David Barton of Ipswich, pointing out that the 'N' on my drawing had a serif where no serif should be. Mr Barton, a former lecturer in graphic design very kindly drew for me a correct nameplate(from a photograph), which I reproduce here, along with my rather inadequate early attempt. It's obvious which is correct, when you see them side by side. My thanks to Mr Barton for this useful contribution and no, he has not joined OLCO, though he knows a man who has(Welcome, Lionel Waldridge, of Ipswich MES.). To those who have purchased the part finished GA of Lion and are waiting for your free update, I will correct the error before sending out more prints.





MINE

In this issue...

A GOOD ONE (by David Barton)

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Now it's official - the AGM this year is confirmed for Saturday, 18th May at 4.00pm at the Lion Inn and Stores, Waters Upton, about 7 miles along the A442 north of Telford in Shropshire. A photo and brief details of venue appeared on page 11 of the last issue of Lionsheart. The meeting will be followed by the Annual Dinner at 6.30pm, early enough for those who need to get home to leave at a reasonable time. Our hosts will be Chris and Terry Arnold and the price for the four course meal will be £9.00. Chris tells me that the menu will be "Lionised"! (And it is, see next page). This should be a very good evening out. Places to stay?.......Charles has given me two addresses-

- a) Robert and Virginia Evans, Single.....£18.00
 Church Farm, Twin bedroom..£15.00 per person;
 Rowton, Double en-suite bedroom...£18.00 per person.
 Telford. Tel: 01952 770381.
- b) The Travelodge, Whitchurch Road, Telford, @ £34.00/room. Tel:01952 246534.

Of course, wherever we go for our AGM, we try to choose a location which offers local items of interest to members. Shropshire is no exception. Five miles South of Telford is the very interesting area known as The Ironbridge Gorge Museum, through which flows the river Severn. The bridge itself is well worth seeing, being cast locally, but there are so many things to see that perhaps the list below is the best way to show what is available.

There is plenty to see on the Saturday before the AGM if you so wish but before we get to the list, let me say that those who visit any of the Ironbridge museums on Saturday should meet at 3.00pm at the exit from Blists Hill Open Air Museum. Those with cars should help to transport those without to The Lion Inn. At the back of this newsletter you will find a questionaire which will include questions on transport requirements and availability among other matters. See pages 7 & 8 for train and bus times, which have been taken from the Telford Public Transport Guide. Ring Shropshire Traveline 0345 056785 for confirmation of times closer to the date. And now, The List.... Entry prices given below are for adults, senior citzens and children respectively to individual sites. However, "Passport" tickets are available for £8.95; £7.95 & £5.30. These are valid indefinitely until each site has been visited once. See pages 4 to 6 for maps, etc.

Blists Hill Open Air Museum
(Working Steam Engines on the Saturday of our visit). - £6.20; £5.20 & £4.00;
Coalport China Museum - £3.20; £2.70 & £2.00;
Jackfield Tile Museum - £3.20; £2.70 & £2.00;
Coalbrookdale Iron Museum(inc. Rosehill & Dale House) - £4.00; £3.50 & £2.50;
Tar Tunnel - £1.00; £0.80 & £0.50;
Museum of the River - £2.00; £1.80 & £1.50.

All are open from 10.00am until 5.00pm, most have free car parks and cafe and restaurant facilities are available at Blists Hill and Coalbrookdale. Don't forget - If you intend to visit more than two items it may be worth getting the "passport" ticket(Even if you can't get round it all this weekend, you can use it later). For further information, contact -

The Ironbridge Gorge Museum,

Ironbridge,

Telford, Tel. 01952 433522 weekdays, Shropshire, 01952 432166 weekends. TF8 7AW.

I should add that we hope to organise a visit to the site of Abraham Darby's smelting works at Coalbrookdale on the Sunday. We may see some casting activity. Charles is enquiring as to the possibility of getting sets of Lion wheel castings done, but to date I have no further information. Anyone interested should give Charles a ring on 01948 663710.

O.L.C.O. AGM MAY 18th

LEEK AND POTATO SOUP

The genuine Ealing studio recipe devised to douse lineside fires during the filming of "The Titfild Thunderbolt"

HOMEMADE PATE

An 1888 Todd Kitson and Laird recipe found useful for caulking a leaking boiler.

RUMP STEAK

A locally supplied steak cooked in an upturned banjo dome of A3 no. 2582 "Sir Hugo"

SALMON STEAK

Salmon raised in a GWR water tower and fully grown in Princes Graving Dock.

MIXED GRILL

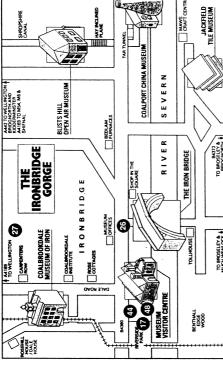
"Tender" pieces of meat griddled on a regulation fireman's shovel wiped only with LMS cotton waste.

Why not finish your meal with sweets or cheese & biscuits then. Coffee with mints seved on the brakevan verandah.

A Lion – Sized Appetite production

Fourist Information and laces

Museum of Iron Blists Hill Open Air Museum INDUSTRIAL HERITAGE Coalport China Museum Jackfield Tile Museum Rosehill House Museum of the River Dale House Tar Tunnel



ABBEYS, CASTLES & RUINS TO BROSELEY & MUCH WENLOCK

8 9 10 Much Wenlock Priory Acton Burnell Castle Haughmond Abbey Shrewsbury Abbey Bridgnorth Castle Shrewsbury Castle **Buildwas Abbey** Lilleshall Abbey

Church of St Mary, Acton Burnell Church of St Bartholomew, Tong Church of St Nicholas, Newport Church of St Chad, Shrewsbury Church of St Michael, Madeley St Mary's Church, Shrewsbury CHURCHES

17	18	19	20	21
		: Follies		
	y Park	ric Park 8		- *
d Park	e Country	ne Histor	Hall	Telford Town Park
Dale Enc	Granville	Hawksto	Hodnet	Telford 7
	Dale End Park 17	ıtry Park	k & Follies	•

		22	53	51	55	56	12	800
MUSEUMS	Bridgnorth Costume &	Childhood Museum	Daniel's Mill	Energy Education Centre	Ironbridge Gorge Museum	Ironbridge Toy Museum	Open Air Museum of Steel Sculpture 27	Rowley's Museum
7.								

FARM ATTRACTIONS Hoo Farm Animal Kingdom

3 3 33

Ray's Farm Country Matters The Wernlas Collection	SHOPPING The Telford Centre The Victorian Arcade, Shrewsbury
Ray's Farn	The Telfo
The Wern	The Victo

33 33 34

STATELY HOMES

Wroxeter Roman City

Whiteladies Priory

Wellington Market

12 13 14 15 16

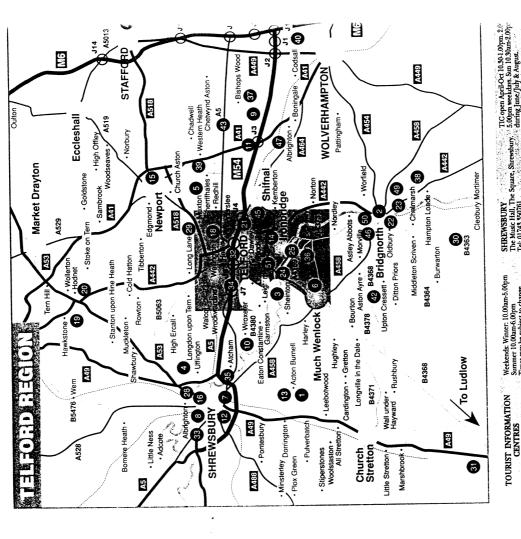
THEME PARKS/

ATTRACTIONS Underwater World Wonderland

45

TRANSPORT MUSEUMS TRANSPORT &

46 47 48 49 50 51 Ironbridge Gorge River Trips Cosford Aerospace Museum Midland Motor Museum Bridgnorth Cliff Railway Telford Steam Railway Severn Valley Railway



TOURIST INFORMATION CENTRES

The Inonbridge region is covered by a mercewer to focal Touris information.

Centers, where you can find fully updated details of all local revents and attractions. In This is where you'll find out about special of exhibitions and festivals, and in most of entire you can book your tickets for a wide range of local events.

IRONBRIDGE The Wharfage, Ironbridge Tel: 01952 452166 Open: Weekdays Mon-Fri Winter: 9.00am-5.00pm Summer: 9.00am-6.00pm

Weekends: Winter: 10.00am-5.00pm Summer 10.00am-6.00pm Times may be subject to change. THE TELFORD CENTRE

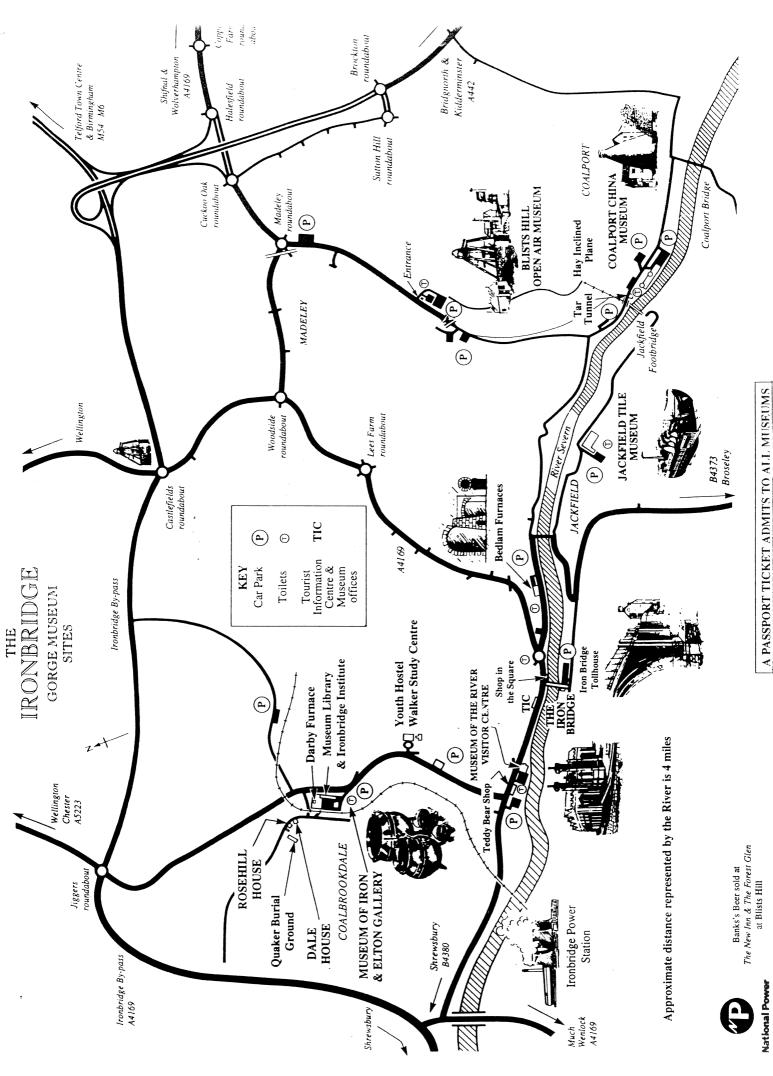
Information Center, Theford Chase Tel: 01952 291370 Fax: 01952 291723 Open: All year Mon-Thur & Sat 9.00am-6.00pm. Fri 9.00am-8.00pm.

BRIDGNORTH

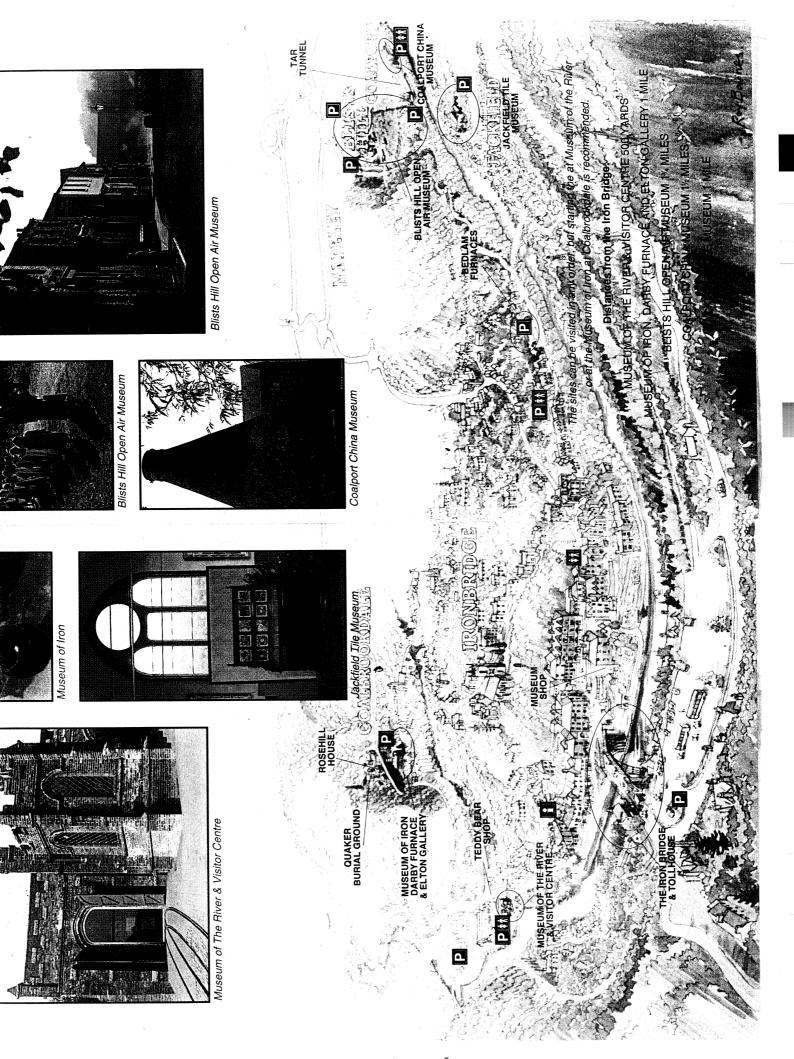
The Music Hall, The Square, Shreesdoury 5.00pm weekdars Sun 10.8tm 2.00pm (10.45 Say) (10. The Library, Listley Street, Bridgnorth. M Tel: 01746 678338.
Open: All year-Mon/Tue/Wed/Fri/Sat W 9,80am-5apm: Exere-Corober: Thur 10.00am-5.00pm and 2.00pm-5.00pm; We Sun 11.00am-1.00pm we 2.00pm-6.00pm. we

Sunday. Time may be subject to change. Museum open: Aprilend Sept. Not open weekends until June/July & August. The Museum, The Square, Much Wenlock, Shropshire. TF13 6HR Tel: 01952 727679. MUCH WENLOCK

1 Landau Court, Tan Bank, Wellingto Telford TF1 1HE NEWPORT 76-78 High Street, Newport, Shropshire, TF10 7AU



National Power



Page 6

Regional Railways **BIRMINGHAM - SHREWSBURY - CHESTER/ABERYSTWYTH**

Mondays to Saturdays from 25 September 1995 to 1 June 1996														
Code:				NSA		Α	NS	S						
LONDON, Euston				• • •			0534		0635		0745P			0915P
BIRMINGHAM, New Street		0515	0610	0647	0704	0753	0817	0817	0851	0917	0949	1017	1037	1117
Wolverhampton		0532	0647	0720	0750	0817	0838	0838	0917	0938	1017	1038U	1058	1138
Bilbrook			0654	0726	0756	0823			0923		1023		• •	
Codsall			0657	0729	0759	0826			0926		1026	• •		
Albrighton			0702	0733	0803	0830			0930		1030	• •		
Cosford			0705	0737	0807	0834			0934		1034		• •	
Shi fna l		• •	0710	0741	0811	0839			0938	-::-	1039	-:	.::.	.::.
Telford Central		0551	0717	0747	0817	0845	0855	C855	0944	0955	1045	1055	1116	1156
Oakengates		• •	0719	0750	0820	0847		-::-	0947		1047			1001
Wellington	• •	0557	0724	0755	0825	0852	0858	0901	0952	1001	1052	1101	1121	1201
SHREWSBURY, arrive	.::.	0612	0738	0809	0839	0911	0915	0918	1006	1016	1108	1116	1138	1216
SHREWSBURY, depart	0600	• •	0740	• •	0840	• •	0925	0925	1007	• •	• •	1123	• •	1218
Gobowen	0619	• •	0800	• •	0900	• •	• •	• •	1027	• •	• •	• •	• •	1238 1243
Chirk	0624	• •	0805	• •	0905	• •	• •	• •	1032	• •	• •	• •	• •	
Ruabon	0630	• •	0811	• •	0911	• •	• •	• •	1038	• •	• •	• •	٠.	1249
Wrexham General	0637		0818	• •	0918	• •	• •	• •	1045	• •	• •	• •	• •	1256
CHESTER	0655	• •	0837		0937	• •		2010	1105	• •	• •	1140	• •	1315
Welshpoool	• •		• •	• •		• •	0948	0948	• •	• •	• •	1148	• •	• •
Newtown						• •	1004	1004	• •	• •	• •	1204	• •	• •
Caersws						• •	1011	1011	• •	• •	• •	1211	• •	• •
Machynlleth						• •	1043	1043	• •	• •	• •	1245	• •	• •
Dovey Junction						• •	1050	1050	• •	• •	• •	1252	• •	
Borth	• •					•, •	1101	1101	• •	• •	• •	1303	• •	• •
ABERYSTWYTH		• •				• •	1112	1112	• •			1314	• •	• •

Code:

Does not operate on 8 April. 6 or 17 May

NS Not Saturdays U Stops to pick up only

Saturdays
Departs 10 minutes later on Mondays to Fridays

Times in italics are connections

25.09.95

For service on Sundays, see overleaf

BIRMINGHAM - SHREWSBURY - CHESTER/ABERYSTWYTH Regional Railways

Mondays to Saturdays from 25 September 1995 to 1 June 1996											
LONDON, Euston	0945P	1005P	1035P	1105P		1205P		1305P	1335P	1405P	1435P
BIRMINGHAM. New Street	1137	1217	1237	1317	1337	1417	1437	1517	1537	1617	1637
Wolverhampton	1200	1238U	1300	1338	1358	1438U	1458	1538U	1600U	1638U	1700U
Bilbrook	1206				1402				1606		
Codsall	1209				1405				1609		
Albrighton	1213				1409				1613		
Cosford	1217				1413				1617		
Shi fna l	1221				1417				1622		
Telford Central	1227	1255	1317	1356	1423	1455	1515	1556	1628	1655	1717
Oakengates	1230				1426				1630		
Wellington	1235	1301	1323	1401	1431	1501	1521	1601	1635	1701	1723
SHREWSBURY, arrive	1250	1316	1338	1416	1448	1516	1536	1616	1651	1716	1737
SHREWSBURY, depart		1325		1417		1525		1617		1725	1739
Gobowen			• • •	1438				1638			1759
Chirk				1443				1643			1804
Ruabon				1449				1649			1810
Wrexham General				1456				1656			1817
CHESTER		• •		1514				1715			1835
Welshpool		1348				1548				1748	
Newtown		1404				1604				1804	
Caersws		1411				1611				1811	
Machynlleth		1443				1643				1844	
Dovey Junction		1450				1650				1851	
Borth		1501				1701				1902	
ABERYSTWYTH	• •	1512	• •		• •	1712		• •	• •	1913	• •

Code:

U Stops to pick up only

P Departs 10 minutes later on Mondays to Fridays

Times in italics are connections

25.09.95

For service on Sundays, see overleaf

02.01.96

S

Saturdays only

Mondays to Saturdays														
					SB				SB					
Operator:	WIL	WIL	WIL	WIL	HOT	WIL	WIL	WIL	TML	WIL	WIL			
Service No:	X96	X96	X96	X96	96	X96	X96	X96	96	X96	X96			
Code:	NS		S		F	NS	S		NS	S	NS			
BIRMINGHAM, Bus Station, Stand 20			0945	1045			1245	1445	٠	1745	1845			
Birmingham, rear of Coach Station			0947	1047			1247	1447		1747	1847			
TELFORD TOWN CENTRE, Bus Stn, Std H	0720	0930	1030	1130	1237A		1330	1530	1630	1830	1930			
Randlay, Brands Farm Way	0723	0933	1033	1133	• •	1333	1333	1533	1633	1833	• •			
Stirchley, Churchway	0725	0935	1035	1135	1247A	1335	1335	1535	1635	1835	• •			
Blists Hill, Museum Entrance	:-	.::.	1043	.::.	.::-	-::-		1543	1643					
Madeley, Court Street	0733	0943	1048	1143	1255	1343	1343	1548	1648	1843	• •			
Woodside, Elizabethan Inn	0740	0950	1055	1150		1350	1350	1555	1656	1850	••			
Ironbridge, Museum of the River	0746	0956	1101	1156	1301	1356	1356	1601	1656	1856	• •			
Buildwas, Bus Shelter	0753	1003	1108	1203	1308	1403	1403	1608	1703	1903	• •			
Leighton, Kynnersley Arms	0757	1007	1112	1207	1312	1407	1407	1612	1707	1907	• •			
Eaton Constantine	0800	1010	1117	1010	1217	1410	1410	1617	1710	1012	• •			
Wroxeter, Roman Town	0807	1017	1117	1212	1317	1417	1417	1617 1620	1712 1715	1912	• •			
Atcham, Mytton and Mermaid Hotel	0810	1020	1120	1215	1320	1420	1420	1635	1713	1915 1930	2000			
SHREWSBURY, Bus Station	0830	1035	1135	1230	1335	1435	1435	1033	1/30	1930	2000			
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A Service 974	SB	Shr	opshir	e Bus	- subs	idised	1			HOT I	Hotspur M	lid1and	Red	
F Fridays only	50				County						Timeline			
NS Not Saturdays	Т		sdays								Villiamso	ns		
													0 01 00	

Timing point served out of normal order

For service on Sundays and Public Holidays, see overleaf
For alternative services between Telford and Shrewsbury, see routes 80, 81, 84

For alternative services between Birmingham and Shrewsbury, see routes 520, 521, 522

For alternative services between Wellington and Wolverhampton, see route 892

WOLVERHAMPTON - TELFORD - IRONBRIDGE - WELLINGTON 894, 895 Elcock Reisen, Tellus Midland Red

Mondays to Saturdays SB SB Operator: TEL TEL **ELR** ELR FLC TFI Service No; 893 895 895 895 896 894 Code: NS WOLVERHAMPTON, Bus Stn, Std 1 0855 1430G 1730 Prioslee, Powell Road 0923A TELFORD TC, Bus Stn, Std H 1800 1430 0930 1130 Hollinswood, Dallamoor 1803 Randlay, Centre 1805 Stirchley, Churchway 1808 ٠. . . Brookside, Burford 1810 Madeley, Court Street 0940 0813 1140 1440 1510H 1818 Blists Hill, Museum Entrance 0944 1144 1444 . . Coalport, Riverside Avenue 0948 1148 1448 Woodside, Elizabethan Inn 0819 1520 1824 Ironbridge, Museum of River 0955 1455 0825 1155 1830 1525 Coalbrookdale, School Road Coalbrookdale, Sunniside 0830 1000 1200 1500 1835 0834 1004 1204 1504 1839 Horsehay, Cross Roads Lawley, Church
Wellington, Regent Street 0844 1009 1209 1509 1844 1851 WELLINGTON, Bus Station 0854 1017 1220 1520 1854 Wellington, Wrekin Hospital 1222S 1522 Wellington, Falcon Hotel 1225\$ 1525 Code:

153

Not Saturdays

Services Salop Street NOT Bus Station Н Serves Hills Lane and The Maddocks

NOT Court Street S Saturdays only

NS Not Saturdays

Shropshire Bus : subsidised by SB Shropshire County Council

Wednesdays only

Operator:

ELC M H Elcock & Son

ELR Elcock Reisen Tellus Midland Red TEL

02.01.96

No service on Sundays or Public Holidays For atlernative services between Wellington and Wolverhampton, see route 892

I announced on page fourteen of the last issue of Lionsheart that we were planning to hold Lionsmeet '96 in Bristol on the 11th or 18th of August. Unfortunately, Bristol are busy on every Sunday during August so we have fixed the date for Saturday, 17th August, still in Bristol. Bristol have a ground level 7 1/4" track of 1543 feet and a raised 5" & 3 1/2" track of 1644 feet, all with steel rails. Facilities are good and what makes Bristol an undeniable attraction is its setting in a fairly secluded part of the extensive Ashton Park, part of the previous Smythe estate. There are wonderful views to the South, West and East over the city. Brunel's Clifton suspension bridge is within ten minutes walking distance and about 15 minutes drive away is that other Brunel masterpiece, the Great Britain. His train shed at Temple Meads railway station is a little further, near the city centre. There are so many other things to see. Why not make a weekend of it? First though, put the date in your diaries and don't forget, any loco whose prototype was built before 1851(The year of the Exhibition) is welcome to come and run on the track, though only Lions are eligible for the trophy. I will give more details in the next issue of Lionsheart.

Of course this meeting should be a trial of titans — the competition between the 7 1/4" gauge Lions of Geoff Wright and Peter Gardner. As you will recall, this meeting was to have taken place last year at Sutton Coldfield, but sadly a combination of rather heavy rolling stock and mechanical breakdown rendered a competition impractical. In any case the results would have been rather difficult to quantify. After all, even a "large" Lion is still quite a small machine, with a tractive effort of only some 30 to 35lbs. True, the 5" Lions are even less powerful, but they were pulling much lighter stock. Anyway, this is a problem which I am sure we can overcome for the Bristol meeting.

Another problem which would be good to overcome would be the rather spartan turnout of competitors at recent Lionsmeets. There must surely be several Lion owners among our readers? Get them out. Dust them down. Make them work for you. They can be returned to their pedestals later - perhaps with a trophy - certainly with memories of a friendly and interesting meeting. If you don't have a Lion, can you borrow one, or persuade one of the competitors to let you have a drive? Think about it. I look forward to meeting you in Bristol.

For details of track plans, how to get there, places to see, places to stay....see the next issue of Lionsheart. However, to get your adrenalin going and perhaps to set you a challenge, I include below the Roll of Honour of Chairmans Trophy winners to date..

Year	Winner	Venue
1985	David Neish	Guildford
1986	D. Gadsby	Warrington
1987	Jim Mercer	Dinting
1988		Not Contested (Why not - anybody know?)
1989	Mike Parrott	Cheltenham
1990	Mike Parrott	Warrington
1991	Mike Parrott	Welling
1992	David Neish	Chesterfield
1993	Bob Davies	High Wycombe
1994	Mike Parrott	Frimley
1995	Mike Parrott(Again!)	Sutton Coldfield

The above as far as I know, were all 5" gauge, but we now have two 7 1/4" Lions. There is a separate trophy for these, a cup, donated by Geoff Wright and David Neish. This was first won by Peter Gardner last year at Sutton Coldfield, as reported in Lionsheart no. 38.

This was OLCO's first presence as far as I know as an actual exhibitor. We took advantage of an offer made in Model Engineer No. 3998, page 139, targetting small societies and the like for whom the effort and expense of providing and manning a stand at the exhibition would be impractical. Under this offer they could enter models in the Loan Section. These would then be stewarded along with the other loan items. I have been unable to find out how many others took up the idea, which to me seems quite a good one. However, there is still the not inconsiderable task of mustering material for the display, getting it there and then collecting and dispersing it afterwards. This unenviable job fell to Peter Gardner, to whom I offer many thanks on behalf of all concerned. Peter drove many miles on our behalf and put in hours of hard work to mount a pretty fair display. I took photos of our stand and hoped to reproduce them here, but photography not being my strong point, I have to confess that on being developed they had all the appearance of an ancient locomotive yard in a pea-souper at night. By the time they had undergone the photocopying process there would have been nothing to see!

Anyway, I did see some people at our stand and have received some correspondence. Also, our membership has increased so all was not in vain. I hope we get the chance to do it next year. Perhaps I'll take up photographpy in the meantime!

The OLCO stand displayed Bob Grimshaws 3 1/2", David Neish's 5" and Geoff Wright's 7 1/4" Lions, Peter Gardner's Victorian coach driving trolley and Charles Taylor-Nobbs's wheel and other castings. Also on display were the very successful Peter Carr boiler for 7 1/4" Lions and a general arrangement drawing of Lion and tender scaled to about 10 1/4" gauge.

Elsewhere in the exhibition I noticed Jon Swindlehurst's prize winning 5" Lion, spotless as always, but no mean performer as Mike nearly found to his cost at last year's Lionsmeet at Sutton Coldfield. I am intrigued by the blue/grey tinge on the inside surface of the bronze chimney cap. How did you achieve this effect, Jon?

Lionpower by Mike Parrott

Now, after an absence from these pages of several months, I am pleased to include a further article in the Lionpower series, by our most successful Lionsmeet competitor to date. (Come on the rest of you).

It is some time since I wrote for these pages, for a variety of reasons, one being that having been made redundant from British Coal and having acquired a new job, I now have very little free time. Model Engineering has all but ceased, so I haven't had much new material to write up.

I think our Editor was very generous in his description of my performance at last years Lionsmeet. It was one of the worst days out we have had with Lion for many years! Not in any way due to our excellent hosts at Sutton Coldfield I hasten to add, who have made a lovely job of their ground level track, and the site in general. It is many years since I last visited their track, indeed it was one of the first tracks on which I ran Lion when it was completed in 1976/7. In those days there was only the raised track.

I had been having trouble all year with Lion misbehaving. She had lost at least 1.1/2 beats, sometimes 2.1/2, and had developed a tendency to rough running, almost locking up as she went over the dead centres. In the weeks up to Lionsmeet I had had her apart several times. The lost beats were traced to slack in the valve gear, in the right hand side due to a loose rocker shaft bearing, and the left was just worn a little in the die block. Steam pressure in the steamchest was acting on the ends of the valve rods, and keeping all the slack taken up in one direction. At high speed, inertia would help to throw the valves forward to open the back ports, and running would improve. In order to cater for slow speed running, I fitted springs to pull the valve spindles forward against the pressure, as I didn't have time to take the cylinder block out to attend to the loose rocker. This seemed to cure the problem temporarily.

The tight spot on dead centre seemed to come and go, but was felt to be due to a piston unscrewing off its rod. I had always had trouble with the left hand gland blowing, and had tried all sorts of means of preventing the gland from unscrewing. It had been out for so long now that the threads were damaged from rubbing on the front axle, and it wouldn't screw back in at all. I therefore had the left hand piston rod out, and made a new gland with radial holes into which a little bent wire hook drops. The other end of the hook is fixed to the guide bar bolt. The piston appeared to be tight on its rod, and the locking pin was present in the piston rod fixing. I left the right hand side alone as the last time I took the front cover off, it had cracked into two around the edge of the register, the bottom bolt hole being in a separate piece from the rest of the cover. I had refitted it with PTFE tape around the register, which made it steam tight, and I didn't want to disturb it again.

I had also had problems with water supply into the boiler, but that is part of another story!

So we went to Sutton Coldfield hoping that Lion would hold together for one more day, before hopefully I could find some time over the winter to give her some proper attention. Alas it was not to be. She started well enough, and I had a good run on the ground level track in the morning. Towards lunchtime Edward had a go, and came back to report that Lion had lost a beat again. A quick check revealed nothing seriously amiss so we carried on. After a second derailment in the tunnel leading from the station, she was sounding really sick, and we dropped the fire. Upending her in the steaming bays revealed that the weighshaft was bent upwards, lifting the foregear gabs partially out of engagement with the rockers. This is a regular problem on my Lion, as the weighshaft is slung very low to give maximum length to the backgear lifting links. The weighshaft does however prevent damage to the draincocks in the event of derailment. The repair method is to insert a strong bar between the cylinder block and the weighshaft and lever it back straight. Crude but quite effective. I think it was this operation which was shown in the photograph accompanying the article. We steamed up again and Edward had another run. A little later he dragged the engine back in, with the wheels locked solid, and the tender body torn from its mountings. She had locked up on him, and the sudden stop whilst he was resting on the tender had torn it loose from the frame. With the competition about to start, drastic remedial action was required. The lock up was soon tracked down to the right hand cylinder, so the front cover had to come off. Sure enough the piston was well unscrewed from its rod, but it has two holes drilled in the front face, so a pair of snipe nose pliers was borrowed and the piston screwed up as tight as it would go. More PTFE tape was put round the broken cover and it was bolted back up with a prayer that it would still be steam tight. The tender body has four small brackets riveted to its underside, through which bolts pass to fix it to the frames. Three of these brackets had pulled the rivets out of the tender bottom, so we now had three 1/16th diameter holes in the tank. Water was running out of these almost as fast as we could expect to keep it full on the track. However, the show must go on! My brother produced a funnel which was a lovely tight fit in the tank filler, and a two litre water bottle. Armed with these we reckoned we could keep going. It came as something of a shock to discover that the competition had been doubled in length to twenty minutes!

Eventually my turn came so I selected my load and had a warm up lap or two. The pump decided to fail, and the injector would only work below about 50psi. I started the run, and found I had to take water every second lap. Chris did an excellent job retrieving the water bottle and getting it refilled each time for me. (The natives had been somewhat taken aback in the morning by the way we exchanged full mugs of tea on the run, and I would then whistle up to attract attention before placing the empty carefully on the ground behind where the family were sitting on the next lap.) Fortunately the gradients are not severe on the raised track, and I was able to devote virtually all my concentration on the fire and water levels. The valve events had gone off again (I subsequently found the springs had broken) and for some reason she was shy of steam. Fortunately this helped to keep the pressure in the range where the injector would work, but it required constant vigilance to keep the act together. By the end of twenty minutes I had had enough! I knew I had pulled a greater load than anyone else, but I had no idea how many laps I had done. It just seemed an awful lot! I was somewhat surprised to learn that in spite of such diabolical circumstances I had beaten the rest of the field. Someone said AGAIN.

In case you are thinking that my Lion is now past her best, I can assure you that over Christmas I managed to find time to give her a more thorough overhaul and she is now fit and well again, and ready for Lionsmeet 1996.

Some while ago I started a series on the various aspect where I had varied from the LBSC drawings. I will now pick up the threads again with a look at the Lubricator, and Water Pumps.

I never liked LBSCs position for the lubricator low down in front of the cylinder block, so originally I fitted a very small tank between the buffer beam and the smokebox door. Even so the drive arm and delivery pipe were visible in front of the cylinders. I have therefore copied David Neishs' idea and put a tank under the cab floor. However mine differs in several respects from Davids'. Mine is driven by a fork engaging on a small eccentric turned on the back of the right hand trailing wheel. The tank is filled through a pipe extending out sideways above and behind the trailing wheel. There is a sight glass fitted on the rear of the tank for checking (with difficulty!) how much oil is left. However the tank is large enough for a full days run, so it is not really a problem. An overflow pipe is fitted to the tank, to act as an air vent when pumping oil in. This pipe is arranged in the manner of a Chinese ink well, so that if the engine is upended for maintenance, the oil cannot run out of the

tank. The pump itself is mounted externally to the tank, and is of a type invented by Jim Ewins, and described in Engineering In Miniature. It comprises a ram working up and down between O ring seals which act as metering points. The delivery can be adjusted down to quite small levels, avoiding the dreaded Black Measles usually associated with LBSC type oscillating pumps. Both the original pump, and its replacement are driven by home made roller clutch type drives, rather than ratchet drives.

The water pumps have been the cause of much trouble over the years, and I have several spares lying around the workshop. Originally I fitted two pumps as per big sister, intending not to fit an injector. However I fitted one of those as well, and it has saved the day many a time. The right hand pump as designed by LBSC totally screws up access for the reach rod, so in the last rebuild I dropped this pump out and fitted a new reach rod on a much more direct run. Because of the proximity of the crank webs, the valve boxes cannot be fitted at the highest point of the water space on the pump on the full size, and LBSC copied this feature on his pumps. I had a lot of trouble with the pumps failing to prime, which I put down to an air bubble trapped in the highest part of the pump. I have therefore shortened the barrel slightly and managed to get the valve box on the back end of the pump, just clear of the crank web.

I am one of those people who can never seem to get a clack valve to stay water tight for very long, if at all. Over the years I have tried all sorts of valves. After the initial stainless balls, I made tiny wing valves with O ring seals on the valve. These were satisfactory for a while, but then tended to jam shut. I think I then went back to balls, but then a colleague at the Swansea club seemed to have a lot of success with Schraeder valves. I made up a set of these, and they worked for a while. Eventually the little rubber seals get hammered to bits, or they stick. I have now started using Nitrile rubber balls, which seem to work quite well. You have to make sure that the seat is a little smaller than for a steel ball though, or the ball might get squeezed down the hole! This happened to me once with a commercial pump that I had put a rubber ball in, and was using for a hydraulic test. It was a dickens of a job to get the pump apart and get the ball out!

Membership Renewal

It's surprising how quickly this particular part of the year comes around. However, I hope you are able to give your support for a further year. Don't forget, if you wish to advertise, express a point of view, contribute an article or impart a tip on a topical subject, just drop me a line - my address is at the back of every newsletter. The subscription rates have not increased this year. Please fill in the form which accompanies this issue and send it off to the Treasurer. There are also questions about AGM attendance and transport arrangements. I look forward to meeting you at The Lion Inn on May 18th, or later on in Bristol at Lionsmeet '96.

Many of you may be building Lions of various gauges to the "Words and Music" and indeed the drawings of the late LBSC, or Curly to some. Although the data and techniques available now are perhaps in advance of what he offered, his series of articles in Model Engineer still offer the most complete, in fact the only, set of instructions for this locomotive. Below is a list of the articles and the issues in which they appeared, along with correspondence arising. The list is complete as far as I know, but I will be pleased to add to it if any more information should come to light.

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A Few Notes on Bellerophon

For those of you who, in spite of your interest in Lion, need a bit of steam in your life, I enclose extracts from a press release sent to me by Chris Smyth of the Vintage Carriages Trust. Bellerophon is well known to the longer serving members of OLCO. Indeed her existence today is due in no small measure to the efforts of our own Vernon Smallwood, who has very ably chronicled her history, including rescue from the breakers torches in the nick of time, in his book "Bellerophon: Haydock to Haworth". A photograph of this unique locomotive appeared in Lionsheart number 37, page 7a.

BLUE PLAQUE AND GUINNESS RECORD HOLDING LOCOMOTIVE VISITS ESSEX
"BELLEROPHON" - THE OLDEST WORKING STANDARD GAUGE LOCOMOTIVE IN BRITAIN
TO VISIT THE ONLY RAIL CONNECTED MUSEUM IN ESSEX AT CHAPPEL & WAKES COLNE

Visitors to the only rail-connected museum in Essex will have an opportunity to travel in railway carriages hauled by an award-winning locomotive. BELLEROPHON, built in 1874 and believed to be the oldest working standard gauge steam locomotive in Britain is making its first-ever visit to the highly popular East Anglian Railway Museum at Chappel & Wakes Colne, near Colchester, Essex, by special arrangement with its owners, the Scania Transport Trust Award-winning Vintage Carriages Trust, whose base is at Ingrow, Keighley, West Yorkshire.

BELLEROPHON is also famed for its appearances on television: last November it was filmed for Programme Five of the forthcoming BBC TV series, A HISTORY OF BRITISH ART, when it was flatured with Vintage Carriages Trust's 1876 Manchester, Sheffield & Lincolnshire Railway four-wheeled tricomposite carriage. BELLEROPHON has also appeared in the SHERLOCK HOLMES television series made by Granada TV which starred the late Jeremy Brett.

BELLEROPHON is one of the very few locomotives to have its own entry in THE GUINNESS BOOK OF RAILWAY FACTS AND FEATS, by virtue of it being the surviving example of the first successful use of piston valves in steam locomotives. BELLEROPHON is also the holder of an Institution of Mechanical Engineeers Heritage Hallmarks blue plaque for the same reason. The locomotive also won a National Coal Board Steam Heritage Award in 1986. The locomotive was built at the Haydock Foundry in Lancashire to the design of Richard Evans and was used for many years on the Haydock Colliery system.

BELLEROPHON is due to arrive at the East Anglian Railway Museum, Chappel & Wakes Colne, at the end of February, and stay until the end of August. EARM's steaming dates are March 17; April 5,6,7,8; May 5,6,21,26,27; June 2,16; July 2,7,14; August 4,7,11,14,18,25,26,28. BELLEROPHON may not be in use on each of these dates, and visitors are advised to telephone EARM to check in advance of any planned visit. EARM's telephone number is 01206 242524

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With acknowledgements to David Barton.