



BUSH AUGUST 1964

TELEGRAPH

BUSH AUGUST 1964

vol 10 no 8

TELEGRAPH *news bulletin of the bicc athletic & social club wood lane*

Editorial

THAT'S THE WAY THE MONEY GOES

The Chancellor of the Exchequer draws up a budget each year so that the country can balance its books. Our Club on the other hand, has for years skipped merrily on its way without even a thought for such a luxury. Until - "Whoa!" said the Treasurer, "We're nearly broke!"

What has happened? How has this come about? The answer seems to be, that the Bar has increased its stock of wines and this most expensive commodity has swallowed up a fair slice of our money. The result? A budget!

If, however, you look carefully you also see a new financial policy. First of all the Club money is to be spent in supplying, within reason the basic requirements of equipment for the Sections, and to supply funds for functions which appeal to a large number of Club Members. If there is any money left after this, a contribution will be made towards the entertainment of visiting teams. Heretofore the members of some Sections have had to pay for visitors teas out of their own pockets: while members of other Sections have had not only the visitors teas paid for but they themselves have dined at the Club's expense! Twice before the Executive Council has tried to regularise the payment for entertainment and on each occasion has rescinded its decision at a subsequent meeting after representation from one Section Secretary.

How does it happen that the Bar Committee can increase the bar stock and cause financial embarrassment to the Club? This is partly due to the provisions of the 1963 licensing Act, which states that the Bar Committee should be largely autonomous: but a contributory factor is the very small profit which our bar makes.

Our bar should be a thriving concern putting money into the Club funds - not taking it out. It should run its accounts on a business basis, by buying stock only as profits allow!

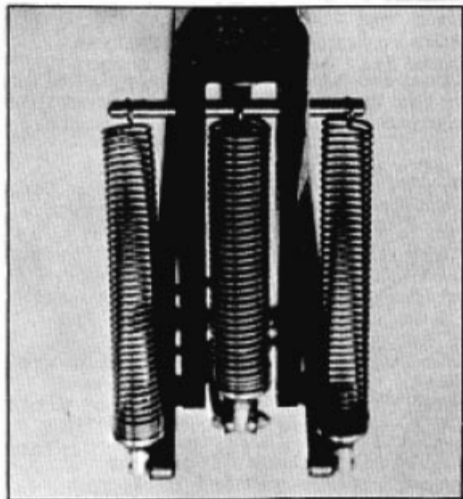
Above all though it needs your support!

WHAT IS IT

If the answer to this weeks puzzle doesn't spring to mind this clue should throw some light on the subject.

Answer.

The picture shows the springs on an angle-poise lamp. Johnny Walker of R. & F took the picture.



The Bar *By Schluck*

When sparkling wine is mentioned most people's thoughts turn immediately to Champagne. There are however, many wines made by exactly the same process "Methode Champenoise" which because they do not come from the Champagne district of France cannot by law be known by such a grand name. Many of these wines are available at approximately half the price of the genuine article and are excellent for drinking on that sun soaked terrace or for sipping in the garden in the hot summer evenings. May I recommend our Asti Spumante (Sweet Italian sparkling wine by the Methode Champenoise) at 15/7d. per bottle or the semi-sparkling Portuguese Mateus Rosé at 11/- (the perfume shaped bottle is worth this alone) or for the more discerning why not a half bottle of Moët Chandon Non Vintage Champagne at 12/8d.

A most refreshing drink is Hock, served chilled of course. A good selection of German wines priced from about 10/- to 11/6d. a bottle are available at the bar but for sheer bargain value why not try the Yugoslav Riesling at 7/8d., a very fine wine from the famous Lutomer vineyards, and for ladies who like to drink a fruit salad, we have a few bottles left of Pimms No.1 Cup at the pre-budget price of 34/1d.

POP MUSIC

On page 17 is advertised the first dance arranged by the P.M. Section. They have engaged the fabulous Syndicate One who played for a fantastic twist session at the Staff Association A.G.M. dance. Tickets will be available in September from Michael Squelch (249) and already a large number are spoken for

BOOK THE DATE NOW!

2ND OCTOBER

TENNIS

TOURNAMENT

The 1st and 2nd rounds of the tournament have now been completed and with the elimination of Norman Carpenter in the Quarter-Finals the competition becomes a tussle between the Rubber and Plastics and Chemistry Departments.

The four 1st round matches which were unplayed at the time of writing last month's report produced some interesting struggles. Gordon Couch and Gordon Smith battled for 2½ hours before the former emerged victorious 1-6, 6-4, 6-4, whilst an out of practice Dennis Cooper lost 6-3, 6-4 to the much improved John Hargreaves. Pete Mills not only had that gritty, determined Northern Irishman, Bob Foster to contend with but also a pleasant British summer downpour. He surmounted both obstacles to win 2, 6-4. Carol Mackie kept the female flag flying with victories over John Austen (6-3, 7-5) and Rod Linford (6-2, 5-7, 6-3) and now meets David Roe who had a comfortable 6-2, 6-4 2nd round win over Gordon Couch. Also through to the Quarter-Finals are Dai Davies, John Anderson, Pete Mills and Robin Wood. The last mentioned scored a 6-2, 6-3 victory over George Gunn who must have found the pace a bit hotter than in the previous round. As already mentioned one Quarter-final match has been played, defending champion Keith Elder beating Norman Carpenter 6-0, 6-4.

PLATE COMPETITION

With a lively "let's be like Wimbledon" attitude a Plate competition has been organised for players who were defeated in their first match of the tournament proper. With 15 competitors Terry Webb was the lucky player to draw a bye into the 2nd round, and he has been joined so far by Roger Seebold, John Austen, Dennis Cooper and Bob Foster.

MATCHES

2 matches and one farce have been played in the last month. On June 24th a mens team, assembled at very short notice, were the guests of Glenside L.T.C., West Twickenham. A certain lack of match practice was evident, and in view of this, defeat by 6 matches to 3 represented a creditable performance. Keith Elder and Robin Wood won 2 matches and lost 1, Rod Linford and Pete Mills won 1 and lost 1, and Dennis Cooper and David Roe lost 3. A measure of revenge was quickly extracted in the bar where Wood Lane scored a convincing win at Darts.

On Tuesday, July 7th a mens team played Barnes 'B' at Barnes and were victorious by 4 matches to 2 with 2 unfinished and one unfinished due to bad light. Keith Elder and Gordon Couch won all 3 of their matches. Pete Mills and Robin Wood halved one and lost 2, and David Roe and John Hargreaves won one, halved one and were leading in the unfinished game.

The following Monday revealed the folly of trying to play serious matches on public courts when Bishop's Park was invaded by members of the Rubber and Plastics and Chemistry Departments eager to do battle. When time was up and no more courts were available precisely one set had been completed, Dennis Cooper and Mike Hagger beating Pat Nash and George Gunn 6-4, thus leaving R. and P's reputation untarnished.

An approach has been made to the London Offices with the view to arranging a mixed fixture at Kidbrooke one Saturday or Sunday later on in August. It is hoped that about a dozen members from Wood Lane will be able to play.

PROFESSIONAL TENNIS

The London Professional Championships will take place at Wembley in mid-September (actual week not known yet, probably 14th - 19th) and it is probable that tickets for Monday and Tuesday will be available at half-price as in previous years. If you are interested in going please contact Mike Hagger (274) or Keith Elder (274) some time during August.

TENNIS FESTIVAL - SATURDAY SEPTEMBER 5TH

By kind permission of the Headmaster of Latymer Upper School this year's Tennis Festival will again take place on the School's courts. With 3 courts available the number of players must be restricted to 32, ideally 16 men and 16 women. Preference will be given to those members who have supported Tuesday evening meetings and other places will be balloted for. All members and friends are invited to attend the social afterwards. Further details from Mike Hagger (274) or Keith Elder (274).

STOP PRESS RESULTS

Tournament Quarter-Finals

Peter Mills beat Robin Wood 6-4, 7-5

Plate 1st Round

Mike Squelton beat Gordon Smith 6-3, 7-9, 7-5

PHOTO-COMP

We had come to believe that one of the most successful features of the Bush Telegraph was the Photo-Competition. In choosing the winners the editorial staff spent many an hour in stimulating disagreement and then more time in discussion of future subjects. We felt our enthusiasm reflected in, what we felt to be, generally a satisfactory number of entries (the quality often less so); and the popularity of the exhibitions of the entries even further proof of widespread interest.

Imagine, then, our chagrin when at the closing date of this month's competition (with at least three months notice of the subject) we received-wait for it, one entry. With all due respect and thanks for that effort we felt it was not of sufficiently high quality to merit publication (and the 10/- prize). Two other entries received after the closing date were also considered but subsequently unanimously rejected.

To distort a well known saying - 'get your fingers on the shutter buttons' - and let's have some photographs even if you don't think they stand a chance.

Owed to a Typist

REDEDICATED TO MRS. EILEEN KING

The typist's life is a happy scene
In the R. O. pool at Wood Lane.
From the secure shelter of business routine,
She finds technicalities a strain.
So it isn't surprising as she gazes with awe
On the jobs she is asked to do,
That she wants to know a whole lot more
Concerning the terms that are new.

Consider the new girl
Who, with guileless decision,
Asks the meaning of nuclear fission;
Molecular chains and irradiation,
Ionic bombardment and oxidation.
Losses both iron and hysteresis,
Capacitance, inductance and cataphoresis.
She wants to know if the D.L.A.
Is high or low when the P. F. is bad,
And if the number of points of ionisation
Is a good indication of deterioration.

Chemical terms in writing Black,
Require not knowledge, but certainly knack.
Determinations of alkalinity
From point four noughts up to infinity;
Molecular structures and spectrophotometry,
Acidity, viscosity and osmo-metry.
Titrations termed electrometric,
If she doesn't like these
She'll write conductimetric.
Polyvinylmethylether,
Alpha, gamma, lambda, beta.
 P_2O_5 equals phosphorus pentoxide;
Selenium and sulphur hexafluoride.
Tridiaminodiphenylmethane,
Cracking of oils, and values called octane.
She owes quite a lot to our chemist friend
for helping her further round the bend.

Of metals and such like she'll learn quite a lot,
Such as pig and bar and leaden ingot.
Grain growth and fractures, slip, creep and glide,
Diameters o. d. and also inside.
Stresses and strains produced by large weights,
Discs for recording and aluman plates.
Corrosion galvanic, anodic, cathodic,
Vibration - corrosion electrolytic.

Tests on fuses on which we're embarking,
Currents prospective and periods arcing.
Contacts discoloured and carriers burnt,
Fees for reporting, always well earnt.

These are the things the girls want to know,
Which adds to my worries and sad tale of woe.
When I've served a bit longer I might be able
to point out the difference between 'Table
and 'Fable'.
So if I'm wrinkled before my season,
Hold fast a while and note the reason,
With countless questions asked in a day
It won't be long before I am grey.

And if this effort lacks metre or scan,
Be not too critical as I am not a man
Like R.M.B. who, with consummate skill,
Reels offverses ad lib and at will.

REPRINTED FROM THE BUSH TELEGRAPH

DECEMBER 1950

Family Tree

Here is another of the word-puzzles which aroused such interest in the April issue of the B.T. As before, starting from the great-great-great-great-grandfather word in the centre of the following page, progress towards the 7th generation round the outside of the page. To help you (?) the fourth generation has been filled in already. Each word has two 'offspring', each begotten according to one only of the following rules:-

- (1) A word may be a synonym of the preceding word.
- (2) It may be anagram of the preceding word.
- (3) It may be derived by adding one letter only at any point in the word, the remaining letters keeping the same order, e.g. "RAN-BRAN-BRAIN...."
- (4) It may be derived by changing one letter only, the remaining letters keeping the same order, e.g. "BANK-BAND-LAND-LANE-LINE...."
- (5) It may be one of a word-pair, e.g. "STOP PRESS," "FIRST AID," "TELEPHONE DIRECTORY."
- (6) Father and son may go together to form a different word entirely, e.g. "CAR-PET," "DRAW-BACK," "REST-RAIN."
(Note this one especially)
- (7) There may simply be an association of ideas, broader than in Rule 5, e.g. "PIG" and "WHISTLE", "CUP" and "SAUCER", "STRING" of "BEADS", "DRUNK" as a "LORD", (where the connecting word is a conjunction or preposition and is ignored for the present purpose).

Rules 5, 6 and 7 may apply in either direction, i.e. the "father" might be "WHISTLE" and the "son" might be "PIG", as well as vice versa.

Send your completed family tree to reach the Editor not later than Thursday, 13th August, not forgetting to add your name and department. All will be put in a hat and the first correct one drawn will win the sender 10/-.

The Editor's decision will be final.

MUSIC

In the past season six visits were made to Covent Garden, the tickets being obtained at half price! From time to time people have been disappointed to find that the Section's present activities are restricted to Opera and Ballet visits. This apparent narrow mindedness caters for our present clientele. However, Dear Reader, if YOU are keen to extend these activities please ring John Vernon, 362, soon before your enthusiasm wanes.

THANK YOU

For once I am lost for words! Thank you all very much indeed for our lovely present of a needlework basket and half-dozen fish knives and forks.

Miniature Golf

The S.F.S.C. held their Miniature Golf Championship (under R. & A rules, of course) at Gunnersbury Park on Monday 6th July. Twenty-eight people took part and most unexpectedly, 28 cards were handed in after the end of 9 holes. The standard of golf was reasonably good considering the dry state of the course and also the fact that some of the competitors had never held a golf club in their hands before.

The competition was run on a partnership basis and the aggregate scores counted. The first prize was shared between the Rubber & Plastics partnership of Eamonn O'Connor (33) and Ted Morrison (44) and the Corrosion-B.D.R. partnership of Gordon Smith (39) and Tony Prins (38) who both had aggregate scores of 77. As a player wasn't allowed to win more than one prize, Eamonn and Tony were ineligible for the individual prizes. Mike Squelch won the first individual prize with a round of 37 and Keith Elder and John Flegg tied for 2nd place with 38. In a play-off, John went round in 35 and Keith, playing something like his normal game, scored 33.

The general opinion was that the event was a great success and it is hoped that the S.F.S.C. will hold another miniature golf competition next year.

FILMS

The aim of the new committee of the film section is to bring to you the best cinema entertainment that is available. Films YOU want to see. Please do try to support them regularly and bring your friends. They need your support and are sure that no one will be disappointed.

The season starts on Wednesday, 9th September with:-

ONLY TWO CAN PLAY starring Peter Sellers

Also an interest packed supporting programme.

The National Film Theatre is currently showing seasons of "Films from the Belgium Archive" and Fifty; Forty; Thirty (50 years of Hal Roach, producer, 40 years of Edward G. Robinson, actor; 30 years of Fred Zinnemann, director. Programme summary is shown on page 12.

HOCKEY

The following two fixtures have been arranged for August:-

4th August	J. Lyons	Sudbury Hill
13th August	B.B.C.	Motspur Park

Winter hockey this year will commence at the end of September and there should be added interest in the fact that a ladies team will also be playing regularly. The team has been formed from staff at Wood Lane and London Offices and will play at Kidbrooksports ground. All enquirers regarding the ladies team should contact the secretary Barbara Smith.

BT Guide to Good Eating... Part 2

CHEAPER ENGLISH RESTURANTS

Here are some cafes and restaurants which serve traditional English food at lower prices.

Sirocco Kensington High Street

Here you can eat in either the ground floor or the basement until quite late at night. It is open until 12 midnight except on Saturdays when it closes at 1.0 a.m. The menu is extensive and you can get a set meal for 15/-

Au Coin du Feu Off Kensington High Street

This is a small intimate restaurant which will hold only about twenty or thirty people. The food is cooked in front of you and the cost will be about 25/- for two.

The Buttery Wembley

Go here when you are homesick for mother's cooking. Traditional dishes are served:- roast beef, apple crumble etc. The food here is very good value for money.

Queens Off Hanger Lane, by North Ealing Station

This restaurant is run by Greek-Cypriots who provide a varied menu and rely for custom on their 'regulars'. They do not stay open late but their food excels in both quality and quantity. Steaks and grills are good, particularly the veal Holstein. Again you get good value for money; two people can eat here for 15/-.

The Hovel Shepperton

No-one who has eaten at the Hovel will ever forget it. The room is like a hovel although the tables and food are clean. There is a tree growing right up through the middle of the room and the whole place is full of the sort of junk one might expect to find in Steptoe's yard. All available space is plastered with jokes and cuttings (tip: the most doubtful jokes are stuck underneath tables and stools). This unusual restaurant is run by a man and wife; she cooks, he waits. Grills only are served but a sample item is 'Chop, bacon, steak, liver, sausage, chips, peas, beans, egg ...7/6d.' Fresh home-baked bread is provided and in the winter a free cup of soup. Although there is only room for about a dozen people to eat at one time no restriction is placed on the length of time spent examining the curios.

ANGLING

The London Offices have formed an Angling Section which has been Affiliated to the London Angling Association. This gives fishing rights over a wide range of London district waters. Anyone interested in joining contact Barbara Smith.

THE NATIONAL FILM THEATRE

PROGRAMME SUMMARY

AUGUST	Time	Code	Title	Language
	4.30	X	L'Opéra de Quat'Sous	FD No ET
1 Sat.	6.30	X	Die Dreigroschenoper	EST
	8.30	X	L'Opéra de Quat'Sous	FD No ET
2 Sun.	4.30 4.30 8.30	X	El	SD FST No ET
3 Mon.	6.30 8.30	X	The Maltese Falcon	
	6.30	X	L'Opéra de Quat'Sous	FD No ET
4 Tues.	8.30	X	Die Dreigroschenoper	EST
5 Wed.	6.15 8.30	X	Asphalt	EST PA
6 Thurs.	6.30 8.30	X	Prix de Beauté	FD No ET
	6.30 8.30	X	El	SD FST No ET
7 Fri.	6.30 8.30	S	Wing Out, WESC	
8 Sat.	4.00	X	Tu Minh (One performance only; approx. 4½ hours, with intermission. All seats bookable, 18/-)	FST EN PA
9 Sun.	4.30 6.30 8.30	X	The Southerner	
10 Mon.	6.30 8.30	X	The Oklahoma Kid	
	4.30	X	Teresa	
11 Tues.	8.30	X	Act of Violence	
12 Wed.	4.30 8.30	X	The Men	
13 Thurs.	6.30 8.30	X	The Search	
	6.30 8.30	X	The Southerner	
14 Fri.	6.30 8.30	S	MEMBER OF THE WEDDING	
15 Sat.	4.30 6.30 8.30	X	High Noon	
16 Sun.	4.30 6.30 8.30	X	The Search	
17 Mon.	6.15 8.30	X	Foreign Correspondent	
18 Tues.	4.30 8.30	X	A Hatful Of Rain	
19 Wed.	6.00 8.00	X	The Nun's Story (Programme ends 11.10 p.m. approx.)	
20 Thurs.	6.15 8.30	X	The Sundowners	
	6.30 8.30	X	The Shanghai Gesture	
21 Fri.	6.30 8.30	X	MARSHAL OF THE WEDDING	
22 Sat.	4.00 6.15 8.30	X	From Here To Eternity	
	4.30	X	ZINNEMANN at the NPT The Wave, and discussion with Fred (NORMAL PRICES). Zinnemann	
23 Sun.	4.30 8.30	X	The Flowers of St. Francis	ID FST No ET
24 Mon.	6.30 8.30	X	The Long Voyage Home	
25 Tues.	6.15 8.30	X	Secrets Of A Soul	EST PA
	4.30	X	Her Man	
26 Wed.	8.30	X	Prix de Beauté	FD No ET
27 Thurs.	6.30 8.30	X	Prix de Beauté	FD No ET
	6.30	X	Secrets Of A Soul	EST PA
28 Fri.	8.30	X	Her Man	
	6.30 8.30	S	LITTLE CAESAR	
29 Sat.	4.30 4.30 8.30	X	The Shanghai Gesture	
30 Sun.	4.30 4.30 8.30	X	The Women In The Window	
31 Mon.	6.30 8.30	X	Stagecoach	
SEPTEMBER				
1 Tues.	6.15 8.30	X	Erethan	FST EN PA
2 Wed.	6.30 8.30	X	House Of Strangers	
	6.30	X	She Was Like A Daisy	JD FST No ET
3 Thurs.	8.30	X	Witchcraft Through The Ages	FST EN PA
	6.30	X	Berlin-Alexanderplatz	FST EN
4 Fri.	8.30	X	Revolt of the Fishermen of Santa Barbara	EST
	6.30 8.30	S	BULLETS OR BALLOTS	
5 Sat.	4.00	X	Witchcraft Through The Ages	FST EN PA
	4.30	X	She Was Like A Daisy	JD FST No ET
	8.30	X	Witchcraft Through The Ages	FST EN PA
6 Sun.	4.30 4.30 8.30	X	Double Indemnity	
7 Mon.	6.30 8.30	X	Miss Julie	EST
8 Tues.	6.15 8.00	X	Diary Of A Lost Girl	FST EN PA
9 Wed.	6.30 8.30	X	Seven Thieves	
	6.30	X	Deja S'enrole la Fleur Maigre	EST
10 Thurs.	8.30	X	Diary Of A Lost Girl	FST EN PA
	6.15	X	Witchcraft Through The Ages	FST EN PA
11 Fri.	8.30	X	Belgian Films on the Arts	
	6.30 8.30	S	A SLIGHT CASE OF MURDER	
12 Sat.	4.00 6.15 8.30	X	Erethan	FST EN PA
	11 am.	DEPT	Interference (all seats bookable, 5/- and 7/- apply to MPT-HOT to Q/reen).	
13 Sun.	4.30 4.30 8.30	X	Scarlet Street	
14 Mon.	4.30 8.30	X	The Joyless Street	EST PA
15 Tues.	6.30 8.30	X	The Awful Truth	
16 Wed.	6.30 8.30	X	Black Tuesday	
17 Thurs.	4.30 8.30	X	Topper Returns	
	4.30	X	Revolt of the Fishermen of Santa Barbara	EST
18 Fri.	8.30	X	Berlin-Alexanderplatz	FST EN
	6.30 8.30	S	THE AWFUL TRUTH	
19 Sat.	4.30 4.30 8.30	X	Topper Takes A Trip	
20 Sun.	4.30 6.30 8.30	X	The Stranger	

Because there is no surphons system at the Millbank Cinema, certain sound films in the Belgian season will be presented without English translation: these are L'Opéra de Quat'Sous, El, The Flowers of St. Francis, Prix de Beauté and She Was Like A Daisy. Silent films will be presented with English narration over the main speaker as usual.

EN denotes English Narration
FD denotes French Dialogue
ID denotes Italian Dialogue
No ET denotes No English Translation
SD denotes Spanish Dialogue
EST denotes English subtitles

FST denotes French subtitles
JD denotes Japanese Dialogue
PA denotes Piano Accompaniment
by Arthur Doley
* Details published in May/June Programme

S Short X Millbank DEPT Odson, Leicester Square

POP MUSIC SECTION PRESENTS

SPRINGGATE

FRIDAY 2nd OCTOBER
TICKETS 4/-
BAR BUFFET



COUNCIL TABLE

From The Council Table

Two meetings of the Executive Council have been held since the July Bush Telegraph went to press; on 29th June and 14th July respectively. At the first meeting, the Committee offered their congratulations to the Chairman, Mrs. King, on the event of her recent marriage. It was reported that the Eumig 16 mm projector had now been ordered. It was noted that the record player equipment had not yet arrived. A request for the purchase of 2 new sets of darts costing approximately 10/- and a new "Nodor" bristle dartboard (at 96/- less 10% discount) was passed.

At the second meeting, Mrs. Smith and Mr. Irish produced a Club Budget which was intended to help the Finance Committee in their allocation of grants to various sections. It is hoped that sections will try to work within this budget. The meeting was informed that the Pop Music Section intended holding a Dance at Wood Lane on Friday, 2nd October. The music is to be supplied by the Syndicate One group. It was suggested that a Flower Show could be arranged for the second half of September and Mrs. King said that she would find out if there was any enthusiasm for such an event.

Animal Life

Film Show, July 15th

Once again this was a disappointing evening for the organisers, who had gone to considerable trouble to book a number of interesting films. Only 5 members turned up, apart from the projectionist and barman (to whom, incidentally, many thanks once again).

The eternal optimists, we hope that the low attendances have been due to the holiday season and/or the fine weather tempting people outdoors, and not simply the general apathy of members. Accordingly, the proposed August and September shows are cancelled, but we will have another go in October. Watch the B.T. for details.

Response to the proposals for outings has been equally disappointing. What do members want? A magazine circulating section? This is the only "activity" which has met with success - and it is of course, the one which entails the least effort on the part of members.

About 40 members "expressed interest" in the Section when it was first formed. What about it, you other 35? If the response so far the sum total of your interest?

WHIST

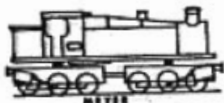
Among the winners at the last Whist Drive on July 8th, were Bob Mitchell (1st) Mike Pater (2nd) Doreen Blinko (3) Ron Dunkley (1st half) & Mrs. Baacke (2nd half). Alf Fish won the Booby.

The next drive will be on Wednesday 12th August at 7.30 p.m.

ARTICULATED LOCOMOTIVES—3

by G. A. Ward

In 1869, the first Meyer was built for the Chemin de Fer du Nord, and was named L'Avenir. It was, however, more like a Garratt than the shape normally associated with a Meyer, as it had the coal bunker on one of the power bogies and the water tanks on the other. A contemporary report by an expatriate Englishman claimed for this locomotive that the use of only one boiler was a feature which was an improvement on the Fairlie's use of two; he admitted that the design was otherwise inferior than the Fairlie. Ninety-five years later these remarks cannot be denied. The performance of the locomotive was not satisfactory.



In 1873 the second Meyer was built; it was, in contrast with L'Avenir, satisfactory in service and typical of the type. This locomotive had a frame carrying bunker, cab and boiler, and this superstructure was mounted on two power bogies coupled together. The leading bogie was joined to the superstructure by means of a spherical joint and carried the water supply in a well tank. The trailing bogie was located by a central bearing, the weight being transmitted by slides at the sides of the bogie.

The very great drawback of the Meyer lies in the firebox being located over the trailing bogie and in the boiler being long relative to its girth. Meyers are frequently compounded, in which case the lead bogie carries the high-pressure engine and the trailing bogie the low-pressure engine.

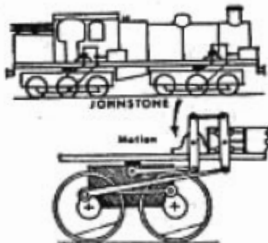
In 1875 twin locomotives were built for the Cape Government Railway. These were tank locomotives with no backs to the cabs; they were semi-permanently coupled cab-to-cab and only if one of the twins failed were they separated, a spare locomotive replacing the one that had failed. Presumably a crew of three was carried. The twins were in no way articulated but functioned as if they were, and were built with the same motive.



A very good example of a special purpose locomotive is the Shay, the first example of which appeared in 1880. This design has a vertical three-cylinder engine mounted on the side of its offset boiler; coupled to the crankshaft of the engine is a flexible shaft which runs the whole length of the locomotive (plus tender when fitted) and drives the bogie axles via gearing. The top speed of the Shay is about twenty m.p.h. but it will traverse sharper curves than any other locomotive except at 0-4-0. The first example could cope with a gradient of 1 in 12½.

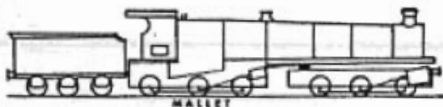
Data are given here of the biggest Shay built, supplied by the Lima Locomotive Works in 1921 for the Greenbriar, Cheat and Elk Railway:

Gauge	4 ft 8½ in
Driving Wheel Diameter	4 ft
3 cylinders, diameter	17 in
stroke	18 in
Grate area	48½ sq.ft.
Tractive effort @ 85%	59,740 lb
Total weight	144 tons



Some time prior to 1887 an elaborate attempt at a solution of the articulation problem was made by Johnstone, engineer of the Mexican Central. The Johnstone has a frame carrying a "tender", cab, boiler and two sets of cylinders, the whole being mounted on two bogies. Thus there is no need for flexible steam pipes, but a system of levers is required to transmit the thrust of the pistons to the driving wheels, whilst allowing for the angularity on curves; the diagram below is self-explanatory. The system is replicated for each cylinder and for the valve gear. The performance of the Johnstone is not recorded!

In 1889, when they were referred to as being of a well-known design, a fleet of 60 c.m. gauge Mallet locomotives was built for the Paris exhibition.

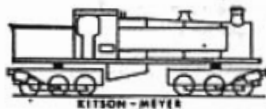


The type consists of a conventional locomotive, but with the frame and boiler extended forwards and supported by a power bogie. The Mallet is almost invariably compounded, the high-pressure cylinders being attached to the main frame and the low-pressure cylinders to the bogie-

thus the flexible steam joints only have to contain the low-pressure steam. The leading bogie carries the coupling and is pivoted at its rear. The Mallet is a poor vehicle, as the front of the superstructure noses outwards on curves, throwing a very large outward thrust on the flanges and rail; in addition, the centre of gravity is outside the centre of support.

The Erie Railroad had a triple articulated locomotive which was a Mallet with the tender mounted on a second power bogie. This arrangement led to the high-pressure cylinders being the same size as the two sets of low-pressure cylinders, which were mounted on the two bogies. This locomotive had a starting drawbar pull of 160,000 lb.

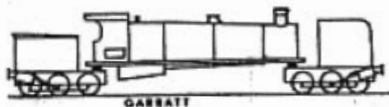
In the 1890's the Hagon design appeared on the Prussian Railway. This had a tender supporting part of the locomotive weight, mounted on driving wheels driven by a system of levers similar to the Johnstone's.



Eighteen-ninety-four saw the first appearance of a development of the Meyer by Kitson & Co., which turned the design into a far better example of engineering, known as the Kitson-Meyer. This placed the firebox between the bogies, allowing it to be deepened and the boiler diameter to be increased. The water supply

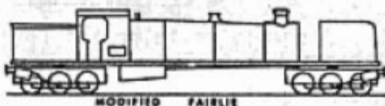
was carried in pannier-style tanks.

In 1907 Garratt patented his design, which was purchased from him by Beyer Peacock & Co. the following year. The first Garratt was built for the 2 ft gauge in 1909 for the Tasmanian Railway, and has now been preserved by the builders. The Garratt is typified by a short, large-diameter boiler



supported between two bogies, one of which carries the coal and the other the water. These boilers are famous for their free-steaming efficiency. In the case of large Garratts where it is necessary to have mechanical stoking, the coak bunker is

occasionally mounted on the same frame as the boiler, turning the locomotive into a cross between a Garratt and a modified Fairlie and losing one of the Garratt's advantages. These are that all the weight is available for adhesion, but the weight of the coal and water is not carried by the bogie pivots; also the low-slung boiler is the largest that can be fitted into any given railway gauge.



sufficient distance to permit the boiler to be low-slung and of large diameter if required.

In 1924 the modified Fairlie was first produced for the South African Railway. In this design a frame carries coal bunker, cab, boiler and the water tank, the superstructure being supported by two power bogies with central pivots; the bogies are separated by

LAST
REMINDER

COACH TRIP TO THE BLUEBELL LINE
SATURDAY 12th SEPTEMBER

All members are invited to come on a day trip to travel on the Bluebell Line - the "living" museum for historic railway engines and rolling stock.

Present proposals are a trip on the railway and visit to the museum. After lunch on to Brighton for the afternoon and evening.

PRICE APPROXIMATELY 19/11d per head.

(If there is insufficient support to fill a coach a similar excursion to the Bluebell line by rail will be arranged costing the same).

Apply to Ted Morrison. (280)

Elections

As Jim Crawley is leaving the Company, two-elections will take place on 19th August to fill his place on the Executive Council and Bar Committee. Nominations should be placed in the box at the Gatehouse before midday 12th August. Voting papers will be distributed on 17th August.

B.I.C.C. ATHLETIC AND SOCIAL CLUB (WOOD LANE)	
NOMINATION FORMS 1964/5	
Executive Council	Bar Committee
Nominee	Nominee
Proposer	Proposer
Secunder	Secunder
If elected I agree to serve on the Executive Council for 1964/5	If elected I agree to serve on the Bar Committee for 1964/5