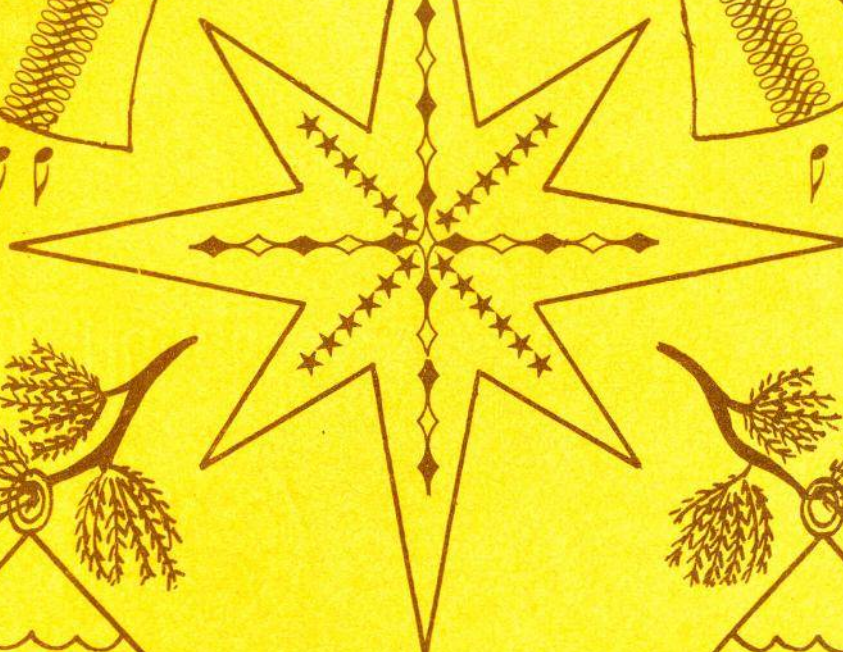
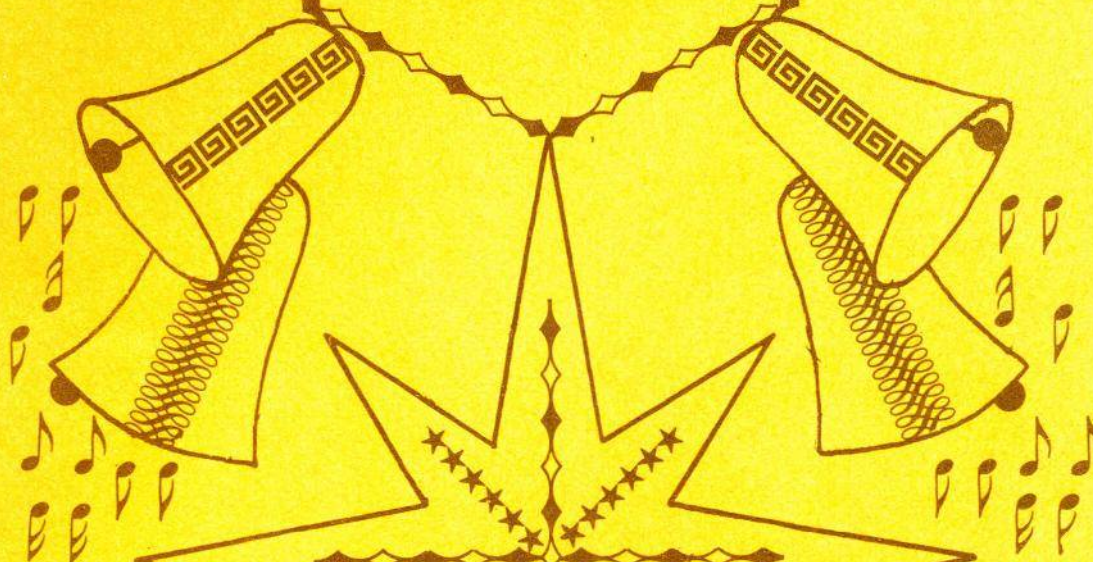


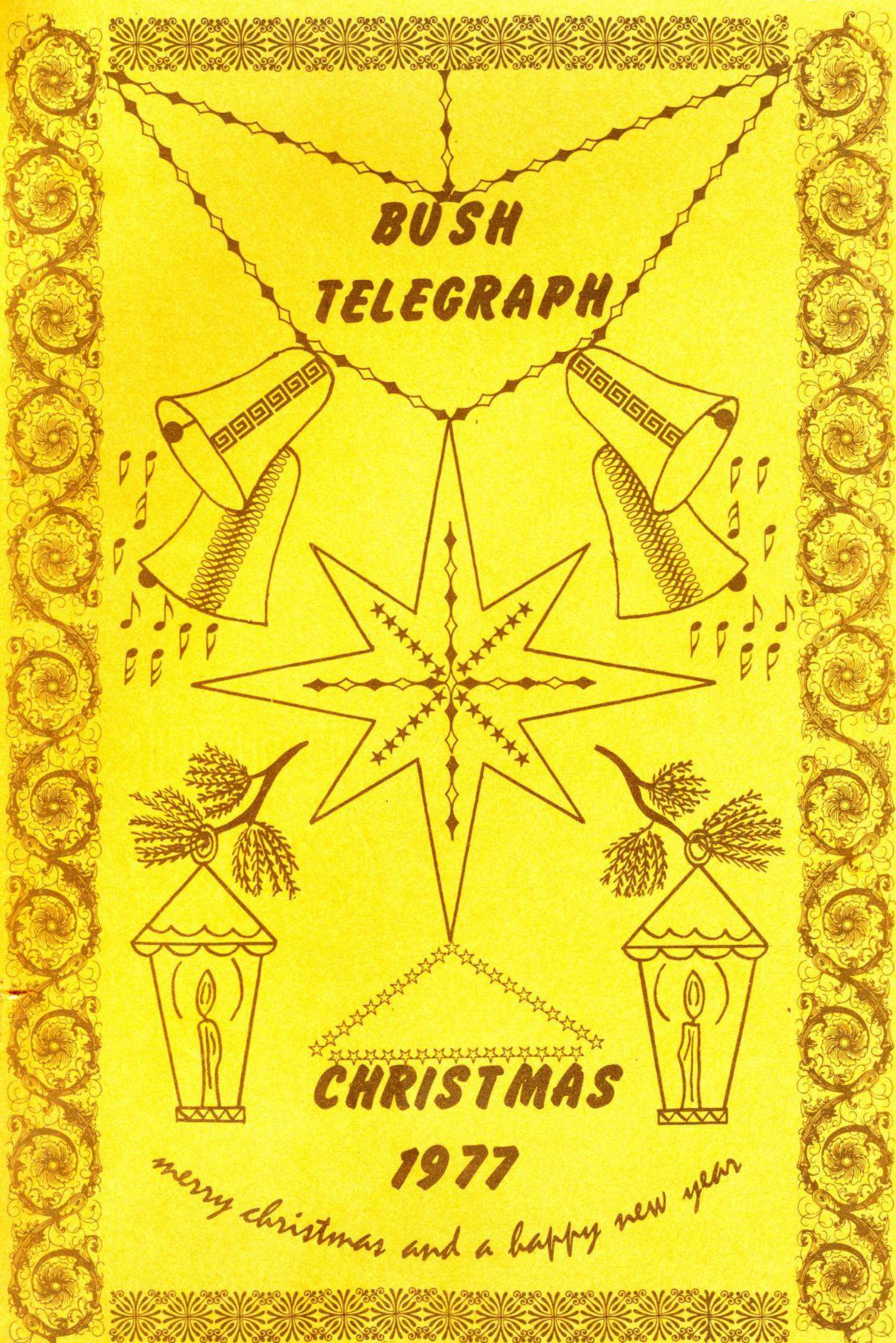
**BUSH  
TELEGRAPH**



**CHRISTMAS**

**1977**

*merry christmas and a happy new year*



# BUSH

vol. **20** no. **1**

# TELEGRAPH

the magazine of

# R&EL

wood lane



## Cover

designed by  
Richard Hammond

## Editorial Board

David Green  
Denis Groombridge  
Mike Hagger  
Richard Hammond  
Geoff Holder  
Ted Morrison  
Peter Revell



# Editorial

The six veterans, so-called, who have managed to put together this edition of the Bush Telegraph expected, optimistically, also to be able to announce the name of the new Editor. Sadly, this is not the case. Perhaps our previous publicity has not been enough, perhaps the cynics have said about the new co-operative attitude of management "We'll believe it when we see it!" fair enough. Now you see it. This edition would not have been produced without it.

While we are sure there are a fair number of people at Wood Lane who couldn't care less about the B.T., we are equally sure there are even more who want to see it continue. To these we say bluntly "It won't unless you do something about it". The 'six' are not prepared, collectively or individually, to continue indefinitely to carry the whole responsibility, though most will continue to support whoever takes over. There is the crunch - a new team must get together, under a new Editor, to carry on what is really a new enterprise, not just a revival of the old.

Think about it - and Happy Christmas, every one.

# Christmas Message

For many years the Bush Telegraph played a distinctive role in the social life of Wood Lane. It was unfortunate that it had to be interrupted. However, we are now presented with an opportunity not only to return it to its former glory, but also to induce it to do even greater things.

The new format was well described in the Newsletter No. 9 of a month ago. We are fortunate to be able to build on the past in this way but, more particularly, in the willingness of the greybeards amongst us to take up the yoke once again. I am sure they will give the new Bush Telegraph an excellent start. But, as they say, they need help and contributions. Speaking on behalf of management, we will do everything we possibly can to help and I do not mean just in providing management information. That is but the beginning. I would like to feel that everyone is joining in.

What better time for a revival than Christmas? It is a time for family reunions, for reviving old associations, for renewing our hopes for the future, and shortly to be followed by the desire to make new resolutions. A season of goodwill in which I delight in wishing everyone at Wood Lane (all Bush Telegraph readers) a joyous Christmas and a happy New Year.

Sincerely,  
John Banks

# Diary of Events

DATE	EVENT	FOR INFORMATION
Jan. 9th	Last day for contributions to Bush Telegraph	Editorial Board
Jan. 10th	Executive Council Meeting	John Heggie
To be announced	Technical Society Lecture III "Various Aspects of Work in the Chemistry Department"	John Heggie
Jan. 18th	Film Show - 'Elvira Madigan'	Annette Mattock
Jan. 20th	Publication Day for Bush Telegraph	Editorial Board
Feb. 10th	Valentine's Dance	Executive Council
To be announced	Technical Society Lecture IV S. Verne. 'Polymer Programmes and Influences throughout BICC'.	John Heggie
Feb. 15th	Film Show - 'The Andromeda Strain'	Annette Mattock
<u>Regular</u>	<u>Events</u>	
Tuesdays	Badminton	Vic Banks
Thursdays	"	" "
"	Air Pistol Shooting	Denis Groombridge

## Personnel News

### WELCOME TO:-

Miss Darrell Moore who joins us as secretary to Mr. F.D. Lam.

Mr. John Spencer who has joined The Works Engineering Department as a maintenance fitter.

### FAREWELL TO:-

David Chapman of the Metallurgy Department who left at the end of November after 7 years service.

### TRANSFERS

Chris Butlin has transferred from the High Voltage Department to the Communications Department.

### BIRTHS

Mrs. Dora O'Gorman who left the Company on the 2nd September, gave birth to a son on Tuesday 25th October.

# R & EL News

## RE-BUILDING OF WEST WALL AND WIDENING OF SITE ENTRANCE

Due to a shortage of labour, it is unlikely that the London Transport Executive will commence the re-building of the west wall and the widening of the site entrance before the end of this year.

When work does begin car parking will not be possible along the west wall. However alternative facilities will be made available and staff will be advised of these nearer the time.

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## NEW PHOTO-COPYING FACILITY

The proposed installation of new Xerox 9200 machine in the Photographic department will speed up and increase the photo-copying facilities at Wood Lane.

As well as the increased speed of copying, the Xerox 9200 has an automatic document handler allowing up to 50 sheets to be inserted; the machine will then print the required number of copies from each sheet and collate them if desired.

There will be no danger of redundancies among the staff of the Bush Telegraph as a result of the introduction of this new technology.

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## TYPEWRITERS

As a result of a replacement programme we have some surplus electric typewriters and it is intended that staff will be given the opportunity to purchase a machine for their private use. As the demand already exceeds the supply we will have to draw lots. The price will vary from £8 to £15 per machine, according to condition. Any repairs necessary to these machines will, of course, be the responsibility of the person purchasing.

If you wish to be considered, will you please advise Dennis Lott in Personnel no later than Friday 20th January 1978.

# Poets Corner

## BLANK VERSE?

The drums roll out along Wood Lane  
The old B.T. is back again.  
Every month(?) it will disperse  
In matchless prose and deathless verse  
Hatches, matches and dispatches,  
Comings, goings, to'ings fro'ings.  
Milton, thou should'st be living at this hour  
To Lend us thy poetic power  
To celebrate in lines that scan  
The Jubilee and Son of Anne,  
Our progress in the march of science...  
The work we do we must conceal,  
It's far too secret to reveal.  
Besides what rhymes with "fibre optics"?

To Editorial Board I plead,  
Please publish this unlovely screed,  
Or else you'll have a horrid blank,  
And only have yourselves to thank.  
But publish it and make the day  
Of our Librarian Margaret K.

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## PROJECT ENGINEERING DEPARTMENT - FIRE REGULATIONS

Remember this building is only on hire  
And must not be damaged by water or fire.  
So, if smoke is found rising by day on this site,  
(For no silly beggars work here in the night),  
Don't stand there and smoulder - just hollo out FIRE  
And grab an extinguisher to aim at the pyre.

Now if at this first attempt you don't succeed  
To a central assembly point you should proceed.  
(And on your way there please sound the alarm)  
In order from burning you come to no harm.  
And there Douglas Latimer will decide what to do  
With those BICC men who appear there on view.

Most contractors' fellows who might be on site  
Won't want to fight fires - but some of them might.  
So those who aren't helping should wait in the street  
To avoid getting under Doug Latimer's feet.  
And those who are helping to him should report  
And he will decide how they join in the sport.

The secretary's job is to call the brigade  
Amongst other duties that's why she is paid.  
Remember, Philomena, 999's the code  
And tell them to hasten here to Athlon Road.  
Now treat this rhyme seriously - please don't be fools  
Your lives could depend on these few simple rules.

A. Arnold

# Health and Safety

Following the fire practice drill held on 6th October, certain points need re-emphasis, as follows:

- (1) Evacuation of buildings and reporting to assembly points was speedy and effective, and the method of accounting for staff by use of the Flextime counter keys was held to be successful.
- (2) However, while checking of buildings was carried out apparently correctly, most fire wardens failed to report to the gatehouse after checking-in at their counter-station assembly points. (See para 5.1 of Fire Regulations.) There was, in fact, some confusion between accounting for staff and reporting floor clearance. Both are necessary.
- (3) In three instances, assembly points failed to send a representative to the gatehouse to report that personnel were (or were not) all accounted for. (See para 5.2.1) Again, reporting the situation to the central Control Point (the gatehouse) is essential, if adequate control is to be maintained.
- (4) Visitors are the responsibility of their hosts, who should escort them to the gatehouse before reporting to their own assembly point. (See para 6.0) Contractors working on the site (as "visitors", in a sense,) are the responsibility of the Works Engineering Department foreman who (as "hosts") will see that they, too, are escorted to the gatehouse.

The various shortcomings listed above are all instances of failure to follow the regulations rather than faults of the regulations themselves.

The moral is obvious - READ THE FIRE REGULATIONS thoroughly, make sure you UNDERSTAND what your duties are, and if in doubt, ASK - now, not when the fire alarm next sounds.

Health & Safety Committee

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## INSURANCE OFFER

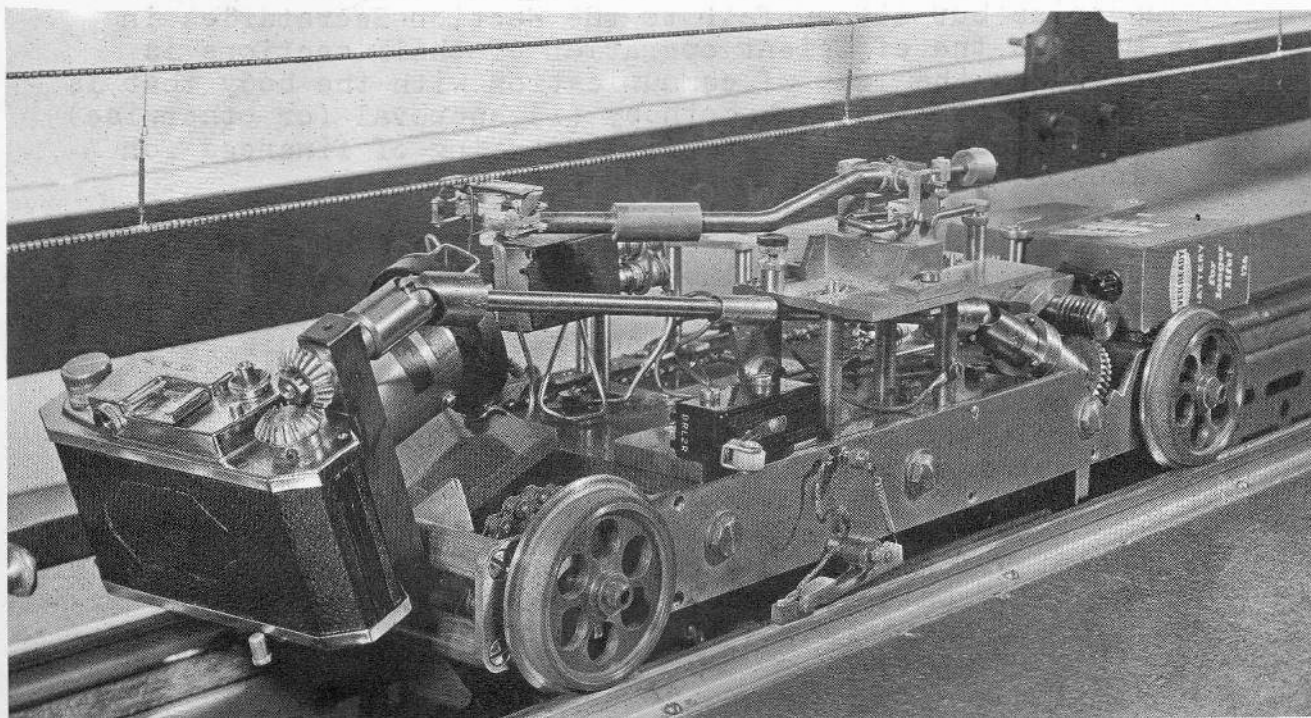
We are advised that there is an insurance company which specialises in reduced-rate cover for Mopeds and Scooters. Anyone interested should contact Cyril Kendall in the Machine Shop.

# Technical Society

The first meeting of the Technical Society was held on Tuesday 8th November when Dr. Maurice Rothman gave a talk entitled "Laboratory Simulation of Railway Electrification" in front of about 60 members of staff. Maurice looked back to the days of the model railway at Tolworth where it took more than a week to set-up and run one test for a given set of catenary conditions. Although this was an advanced technique for its time (late 50s, early 60s), and afforded hours of fun for the staff involved, it was inevitably superseded by mathematical techniques involving the use of computers, where the experiments of months could be compressed into less than a day. The development of such techniques and the experience accumulated over the years was allowing R&EL to make a significant contribution to the complex "North East Corridor" electrification project. This aims to provide continuous railway electrification between New York and Boston (about 450 miles) over track which began as four sections (three already electrified and dating back to 1906 but under different schemes, and one non-electrified). Before leaving time for questions Maurice showed a series of fascinating colour slides of the "North East Corridor", some taken by himself under difficult conditions and showing some of the widely differing catenary constructions which the project encounters.

During the talk Maurice unveiled the "Tolworth Model" which had been rescued and reconstructed by Alex Taylor. Our photo shows the model in operation at Tolworth around 1964. The restored version will be given a permanent home at Wood Lane, probably in the Foyer.

For details of future Technical Society meetings see "Diary of Events"





# Letters to the Editor

December, 5th 1977

To the Editorial Board,

Dear Sirs,

Three cheers - at long last the "old BT" is back on the newstands, albeit in a new format. Every success for the future in its new role as a house magazine for Company as well as Social Club news.

It is the Social Club aspect of communication that has prompted two ex-members of the Executive Council to write to you re. the sad state of affairs that now exists in the running of the Club, in the hope that certain shortcomings which we discuss below can be resolved.

With the demise of the old Bush Telegraph a gap was created in information on the activities and running of the Club and members had to rely on the minutes of the Executive Council meetings and the zest and enthusiasm of the individual section secretaries. Unfortunately, the Executive Council appeared to fade away at the same time as the BT. In the year 1976-77 for instance there were only two meetings held, one in September 1976 and the other immediately prior to the AGM in June 1977. This contravened Club rule 9.4 (which states that the Council meet at least once each quarter year), and rule 13.1 (which states that the AGM shall be held during the month of May in each year). In the current year (1977 to 1978) there has been no improvement, there being only one meeting to date, which was held on the 10th November. This is not only a breach of Club rules but also unfair to the Section Secretaries in as much as the efficient operation of their sections is impaired by the lack of communication with the body that is elected to run the Club both by (i) approval (or otherwise) of the Club activities and (ii) granting of finances for various reasons.

Further, the inactivity of the Executive Council itself has resulted in Club rule 5.6 being broken. This rule states that every person accepted for membership shall be given a copy of the rules and also a membership card. How many members have (i) an up-to-date membership card and (ii) any form of membership card and Club rules? We can name people who have been Club members for two years who have never received their cards.

We ask the Social and Athletic Club council why this state of affairs has been allowed to develop? On behalf of the fully paid-up members we feel we are entitled to receive explanations and to demand that the situation be rectified forthwith.

The present day cry is for more communication - not total lack of communication. Come on, Executive Council, read your Club rules, get back into business and start once more to keep the members informed of Club affairs.

R.T. WALKER  
A.E. MORRISON

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Dear Editors,

I don't know your views regarding "to whom it may concern" letters, and perhaps this would be a suitable opportunity to make them known. Assuming that you consider them to make suitably interesting material, perhaps you would print the following:-

DON'T READ THIS

(unless you throw your fag ends in the gentlemen's shower, otherwise....)

Why don't you put them in the bin you sloppy Herbert?

Signed Refined gentleman bather  
(name supplied)

---

EDITORIAL COMMENT

As we said in the recent BT Newsletter, we welcome intelligent and responsible comment, from known sources.

Anti-social behaviour of the type described by "Refined gentleman bather" (son of disgusted of Tunbridge Wells?!) is beyond the pail! Also it makes the fag-ends difficult to light!

We would go further with our own pet grouse. Don't smoke and use the telephone at the same time please.

---

LATE CHRISTMAS GIFT SUGGESTION

For the person who has absolutely everything .....

..... PENICILLIN!

# Leadergram

Compiled by Geoff Holder

For those young enough not to have met one of them before, this type of puzzle used to appear in a now long-defunct magazine called the 'Leader' - hence the name - and here's how to go about solving it. First, solve the crossword - style clues and fill in your answers in the panel opposite. Then transfer the individual letters to the square below, according to the numbers in each small square. Occasionally, it may be possible to see what the rest of the letters in an incomplete word in the square below must be, in which case the letters may be filled in the corresponding places in the panel, thus helping to solve other clues, rather like the 'across' and 'down' in a crossword puzzle.

When completed the first column of letters in the panel will contain the name of an author and the title of one of his books, and the square below a quotation from the book. (No punctuation, the words being separated by black squares).

1 K	2 A	3 L	4 N	5 H	6 Q	7 V	8 J	9 K	10 A	11 B	12 F	13 U	14 T	15 J	16 D				
S	O	O	N	E	R	O	R	L	A	T	E	R	E	V	E				
17 O	18 D	19 F	20 P	21 D	22 I	23 R	24 A	25 Y	26 C	27 G	28 C	29 E	30 E	31 C	32 D				
R	Y	W	E	L	L	K	N	O	W	N	A	C	T	O	R				
33 I	34 B	35 Q	36 D	37 U	38 M	39 E	40 V	41 G	42 K	43 C	44 J	45 K	46 P	47 A	48 E	49 H			
P	A	R	T	I	C	U	L	A	R	L	A	R	L	Y	T	H	O	S	E
50 J	51 W	52 N	53 C	54 O	55 E	56 B	57 D	58 K	59 E	60 T	61 H	62 X	63 U	64 P	65 B				
S	P	E	C	I	A	L	I	Z	I	N	G	I	N	T	O				
66 L	67 Q	68 Z	69 L	70 O	71 Y	72 J	73 E	74 R	75 Q	76 D	77 S	78 C	79 T	80 R	81 W				
U	G	H	R	O	L	E	S	R	E	C	E	I	V	E	D				
82 W	83 U	84 B	85 R	86 W	87 C	88 D	89 E	90 F	91 C	92 R	93 C	94 B	95 K	96 U					
A	D	R	U	N	K	E	N	S	H	O	V	E	I	N					
97 G	98 B	99 U	100 G	101 K	102 Q	103 R	104 N	105 X	106 W	107 Y	108 E	109 D	110 G	111 X					
T	H	E	B	A	C	K	A	N	D	H	E	A	R	D					
112 B	113 C	114 Q	115 W	116 O	117 N	118 H	119 D	120 T	121 J	122 M	123 Q	124 F	125 R	126 I	127 H	128 S			
T	H	E	I	N	E	V	I	T	A	B	L	E	C	H	A	L			
129 A	130 U	131 J	132 L	133 V	134 P	135 L	136 B	137 D	138 B	139 P	140 E	141 X	142 R	143 H	144 B				
L	E	N	G	E	O	K	A	Y	S	O	N	N	Y	B	O				
145 Q	146 B	147 G	148 X	149 U	150 O	151 A	152 E	153 E	154 P	155 N	156 H	157 E	158 Y	159 W					
Y	L	E	T	S	S	E	E	K	O	W	T	O	U	G					
160 S	161 C	162 S	163 T	164 V	165 O	166 T	167 B	168 E	169 A	170 C	171 I	172 A	173 O	174 Z					
H	Y	O	U	A	R	E	G	A	B	L	E	C	A	G					
175 F	176 B	177 Y	178 D	179 X	180 O	181 K	182 L	183 C	184 Q	185 B	186 Z	187 Y	188 J	189 L	190 B				
N	E	Y	A	N	D	B	O	G	A	R	T	P	E	R	F				
191 B	192 C	193 V	194 D	195 A	196 V	197 M	198 Q	199 C	200 G	201 D	202 D	203 C	204 D	205 Y	206 A				
E	C	T	E	D	S	E	N	S	I	B	L	E	A	N	D				
207 L	208 V	209 A	210 R	211 J	212 P	213 M	214 S	215 F	216 E	217 I	218 X	219 S	220 T	221 R	222 G				
P	E	A	C	E	F	U	L	W	A	Y	S	O	F	R	I				
223 S	224 E	225 E	226 Q	227 Y	228 I	229 Z	230 Y	231 V	232 X	233 H	234 S	235 M	236 A	237 B	238 Z	239 A			
D	D	I	N	G	T	H	E	M	S	E	L	V	E	S	O	F			
240 X	241 P	242 Q	243 Z	244 G	245 F	246 Q	247 M	248 D	249 A	250 A	251 L	252 X	253 C	254 B	255 Y				
T	H	E	S	E	N	U	I	S	A	N	C	E	S	B	U				
256 R	257 Y	258 H	259 S	260 K	261 I	262 N	263 B	264 K	265 Z	266 A	267 O	268 E	269 M	270 J	271 A				
T	F	L	Y	N	N	W	O	U	L	D	G	L	E	E	F				
272 X	273 S	274 T	275 Z	276 J	277 X	278 A	279 O	280 C	281 P	282 E	283 Z	284 D	285 U	286 F					
U	L	L	Y	W	A	D	E	I	N	T	O	T	H	E					
287 I	288 B	289 C	290 B	291 M	292 F														
A	T	T	A	C	K														

Send your completed puzzle to reach Geoff Holder not later than Monday 9th January. Those received by this will be put in a hat, and the sender of the first one drawn out (if all correct) will receive a prize of £2.

A	278	10	24	172	181	169	209	280	266										
B	34	190	11	176	84	112	98	94	254	290	56	146							
C	93	280	43	170	28	183	203												
D	57	21	202	119	36	16	32	109	76	137									
E	224	152	89	55	30	39	74	108											
F	175	12	19	90	215	124	286	292											
G	222	27	147	100	110	200	41	97	244										
H	118	5	61	49	156	127	143	258	233										
I	171	261	228	126	287	22	33	217											
J	131	188	278	44	270	121	8	50	211	15	72								
K	181	42	101	58	95	9	260	264	45										
L	69	3	251	135	132	189	182	66	207										
M	247	38	197	291	213	122	269												
N	4	117	155	262	104	235	52												
O	267	173	165	17	54	150	70	116	279	180									
P	134	28	64	46	20	241	154	139	212										
Q	198	246	102	123	75	184	35	114	226	242	6	67	145						
R	256	85	221	103	80	142	210	92	125	23									
S	160	77	273	128	162	223	219	214	234	259									
T	14	79	166	60	120	220	163	274											
U	99	63	149	285	13	37	96	130	83										
V	231	164	40	193	133	196	208												
W	51	82	106	81	115	86	159												
X	148	252	141	232	277	179	111	272	105	62	240	218							
Y	177	7	158	205	227	107	25	187	230	257	255	71							
Z	229	283	265	275	174	68	238	243	186										
A'	2	239	271	129	47	249	195	236	206										
B'	185	65	136	237	288	167	263	144	138	191									
C'	199	53	31	284	192	113	26	91	78	253	87	161							
D'	88	178	248	18	201	194	204	284											
E'	73	168	225	140	282	245	89	29	183	187	248	216	48						

Its work is all play! (5, 4)

How a soccer player ran, perhaps, when the coach turned back? (5, 3, 4)

A couple of notes after the first house, for Hamlet (7)

Problem in communication. (Or perhaps, non-communication) (10)

Article held in the teeth to make it impotable. (8)

Poles have 7 days in succession to compile an international magazine (8)

Bite ear in anguish for the toper (9)

Plant food? (9)

Study thermodynamics for a term, then play around (8)

After which, traditionally, the Scots try to be first to put the boot in, one could say! (3, 5, 3)

Popular seeds of Bertholletia Excelsa - Charley would have known where they come from! (6, 4)

Such as the Rolling Stones? Or the Standing Stones? Or even Stonehenge! (4, 5)

Rock when the Americans put it in C'. (3, 4)

Novel farewell gesture from the punk rockers? (3, 4)

Manned the fort, reached in a roundabout way from the S.E. ring road. (10)

Living where horses are shod. (2, 3, 4)

A tremendous amount can be obtained from a small pile! (7, 6)

What's that bird in the butcher's shop window, mate? (6, 4)

Attractive young telephonist in the show. (5, 5)

Explosion in fuel vent might make your journey so! (8)

Send her in to change, in a sacred place. (9)

George and St. John both cross their island (7)

Definitely not the same as stuffing! (7)

Primary system of arithmetic? (4, 3, 5)

Any child, optimistically opening his Christmas presents. (5, 7)

Paraclete. (Pray that that may help you!) (4, 5)

Dumped, or how G went from the bar? (3, 6)

Reprimand the simpleton before dinner? (5, 5)

Still made, of course, in the Highlands and Islands (6, 6)

Gentle rhythm of policeman's boots, when the burglar's not a-burgling? (4, 4)

He's thought of as an old gentleman under another name, but certainly not as Old Nick! (5, 8)

# Section Reports

## HORTICULTURAL SECTION

The Horticultural Section is affiliated to both the Royal Horticultural Society and The Royal National Rose Society. From the RHS we have free access for four people to visit their Wisley Garden and several of their shows including the Chelsea and Great Autumn Shows. The free entry passes are also available to The Royal National Rose Society Gardens at St. Albans, where incidentally the National Rose Show will be staged in June 1978 instead of the past venue of Alexandra Palace.

As a registered Horticultural Society we can obtain discounts of between 10-25% on seeds, shrubs and sundries subject to minimum order requirements. The seed order is normally placed in December, but a supplementary order could be placed for those who have missed out. We also deal with Gregories Rose Garden and this year's order should soon be delivered. We have just arranged for a bulk delivery of Humush Compost; further supplies can be ordered.

We can order RHS publications for our members and have a few loan copies. We receive the monthly RHS Journal; anybody wishing to be included in the circulation list please contact FSW. Magazines and Journal circulation could be organised if there is sufficient demand.

FRANK WALKER

### DIARY DATES - 1978

24-26 May	CHELSEA FLOWER SHOW
8-9 July	ROSE '78
26-28 Sept.	GREAT AUTUMN SHOW

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## GENEALOGY SECTION

Your father may have known Lloyd George, but did your great-great grandfather know The Duke of Wellington? Do you even know who your great-great grandfathers (you had 8) were? If you don't, and you want to find out, we will not do it for you. We will however tell you how to go about it, lend you books to read, put you in touch with members who have guides and maps concerning the area of country you're interested in, and generally provide encouragement and assistance. We already have 13 members (but we're not superstitious), which we believe is more than the Bridge Section but rather less than the number who haven't volunteered to be Editor of the B.T. If you are interested have a chat to Mike Hagger (208) or Mike Kendle (208). You could be the heir to the Manor of Northstead.

## MOTORING SECTION

Unfortunately the main activity in the Motoring Section at the moment is neither social nor athletic. The scheme for hiring equipment and tools to members has been very successful. It has now reached its limit of expansion mainly due to the problem of space. A list of items available for hire is given below.

However, if anyone is interested in organising/ helping to organise, or competing in a rally and treasure hunt/ navigation trial (table top perhaps) I will be able to help financially or otherwise. I have a number of routes and route cards etc which would be of help to anyone organising for the first time. Please contact me (Graham Taylor) if you are at all interested.

Tools and Gadgets available on loan to any Member of the Social Club:-

	Charge
(1) New Socket Spanner Set (AF, Metric & Whit.)	10p
(2) Jacking Ramps and Axle Stand	10p
(3) Pulley/Gear/Sprocket Puller (8")	6p
(4) Eezi-bleed (Hydraulic Systems)	3p
(5) Carbalancer (Twin-carburettors)	3½p
(6) Hydraulic Trolley-jack	10p
(7) Axle Stands	2½p
(8) Grease gun kit	10p
(9) Ball-joint Puller	3p
(10) Colourtune 500	5p
(11) Vacuum gauge	2½p
(12) Compression Tester	3p
(13) Torque Wrench (160 lb. ft.)	2p
(14) Valve seat re-cutting kit	9p
(15) SPQR Tappet Adjuster	5p
(16) Valve spring compressor	4p
(17) Coil spring compressor (McPherson Strut)	2p
(18) Brake pipe flaring tool	8½p
(19) Universal clutch aligning tool	5p
(20) Universal sump plug tool	-
(21) Sockets up to 1¼" UNF	-
(22) Universal circlip pliers	3½p
(23) Metric spanners 10-19 mm	3p
(24) Engine hoist and stand (200 lb)	8p
(25) Strobe timing light	2½p
(26) Battery jump leads	-
(27) Set of taps and dies UNF	8p
(28) Creeper	4p
(29) Hydraulic pillar jack	5p
(30) Stromberg carburetter adjusting tool	2p
(31) Impact driver ½" square drive	5p
(32) New adjustable torque wrench (15-100 lb ft)	10p
(33) Bendix spring compressor	-
(34) Battery charge tester (hydrometer)	-
(35) Antifreeze strength tester (hydrometer)	-

B.P. Energol Super Viscostatic 20W-50 engine oil is available at £8.85/25 litres.

Contrary to some rumours this is compatible with other well known brands of mineral based oils.

## SNOOKER SECTION

Are there any volunteers to organise and run a Snooker and/or Billiards Tournament, to take place early in 1978?

Contact Geoff Holder (380).

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## FILM SECTION

On Wednesday, 18th January the next show in the current season will feature ELVIRA MADIGAN, made by the Swedish director Bo Widerberg. It is based on a true story of the 1890's which has since become a popular legend. Pia Degermark plays Elvira, whose beauty is matched by Widerberg's excellent colour photography. The music - the Andante from Mozart's Piano Concerto No. 21 - perfectly suits the mood of the film. Four short films will accompany the main feature - two about railways - RAIL 150 and LOCOMOTION; another about volcanic eruption - HOTSPOT; and the last, concerning a day in the life of a film stuntman, called THE STUNTMAN.

The films, as usual, will be shown in the Main Hall. Please remember that the right-hand side of the hall is a 'No-Smoking Zone', ashtrays will be provided on the left-hand side.

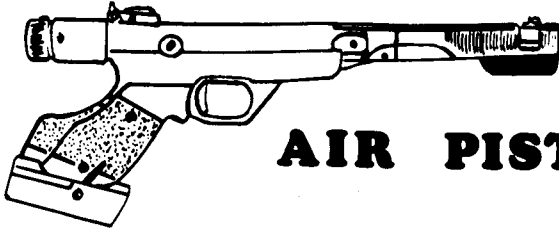
Hope to see you there!

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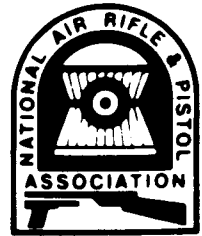
## MUSIC SECTION

Several of our regular supporters have been asking why there have been no party visits to the Coliseum or Covent Garden in the past few months. The reason is really due to the fact that the once very advantageous prices at which we were able to buy blocks of seats have now increased so drastically that it no longer seems a practical proposition. For example in 1974 a block of stalls or dress circle seats at the Coliseum would have cost us £1.50 each; 1977 the same seats are £3.50. Prices at Covent Garden are considerably higher.

The question is whether our members are prepared to spend that kind of money for an evening out. If we can be assured that enough people are (bearing in mind that we need twenty people to constitute a party) we shall be only too pleased to organise further visits. Perhaps you would like to let the Music Section Secretary, Richard Grigsby, have your views on this subject. Meanwhile if any bargain offers come our way we shall certainly keep you informed in the pages of the Bush Telegraph.



# AIR PISTOL SHOOTING



Member of

Shooting Averages at 1.12.77

Pos.		Ave.	Pos.		Ave.
1	Ian Fennemore	41.8	6	Tom Dore'	27.9
2	Joe Lou	38.9	7	Graham Taylor	27.4
3	Denis Groombridge	38.4	8	Nigel Donovan	25.0
4	Bob Maidlow	37.6	9	Roger Roberts	23.0
5	Pete Walters	32.6	10	Pat Donovan	20.9

For those who haven't heard our airgun target shooting section is now active on most Thursday evenings in the canteen. Two clubs guns are available for use and anyone wishing to try this new sport should contact Denis Groombridge (212), Bob Maidlow (308) or Ian Fennemore (Alperton) for details.

Please note that there will be no shooting on Thursday 22nd and 29th December.

## PHOTOGRAPHIC SECTION

The Photographic Section has the following equipment available for hire:-

Agfacolor 50 Slide Projector	Enlarging Easel, and magnetic corners
40" x 40" Screen	Focus Finder
Auto 33 Flashgun	Contact Proof Printer
Rank E10 Flashgun (2)	Simmard 8" x 10" Colour printing drum
Flash Slave	12" x 16" Dishes (3)
Tripod	Dryer/Glazer
Flash Umbrella	Air Release
Various Lamps & Reflectors	
Multi unit developing tank and spirals	

In addition we have a stock of bulk FP4 and HP4 film available at 30 p per 36 ex. cassette length. Preferably, bring your own cassette, cleaned to your own satisfaction.

For further details please contact D.J. Chapman (312).



## SEA ANGLING

Interested in fishing?

Why not give it a try?  
Come on a trip,  
Out to sea on a small, small ship;  
So please, please don't be shy,  
Why not come and give it a try?

Sun, sea breezes and fresh air;  
All for the freshest of fish  
To be served in a tasty dish;  
Then homeward to pub for real ales  
With all those fishy fisherman's tales.

So why not give it a try?

This season has been our most active yet, with 9 planned trips, all made more interesting by the Competitions introduced this year. The competitive spirit is very keen and the final outcome will be decided by the December trip.

Results and further information will be published in January B.T.

For more information call Pete Walton 323.

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## MODEL RAILWAY SECTION

The section circulates five monthly magazines (Railway World, Railway Magazine, Model Railway Constructor, Railway Modeller and Model Railways). If you wish to join the circulation list for some or all of these please contact Mike Hagger (208).

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## Motoring Flash

Will the "gentleman" who borrowed the Club's jump leads some weeks ago please return them to Graham Taylor (322).

\* \* \* \*

## BADMINTON SECTION

### (1) Mixed Doubles Matches

#### (a) Marks and Spencer

A match was played on 2nd November against a team from Marks & Spencer Head Office. Wood Lane was represented by Dave Goff and Eleanor Tarbox, Dennis Cooper and Glenys Derrick and Vic Banks and Sandra McCormick. Each pair won 2 rubbers, the match being won by 6-3, avenging an earlier defeat by 8-1 in February. A further match is being arranged for early next year, probably in January.

(b) Tentative arrangements are being made to play matches against other opponents.

### (2) Mens Doubles Matches

It is planned to play a match against Plessey (Addlestone) in the new year during January/February.

### (3) Club Evenings

Regular club evenings are held every Tuesday and Thursday. Tuesdays are well attended but plenty of opportunity is available for people to play on Thursdays.

### (4) American Handicap Doubles Tournament

The group matches have been completed. Results are shown below.

The winners of each group were due to play a final group on December 8th. Full report next month.

#### GROUP 1

1st	Dennis Cooper & Dave Martin	88
2nd	Alan Bangay & Glenys Derrick	73
3rd	Graham Taylor & Stuart Castle	67
4th	Bruce Keen & Ian Ringrose	66

#### GROUP 2

1st	Vic Banks & Chris Butlin	90
2nd	Glyn Stainthorpe & Ron Arekion	76
3rd	John Childs & Tony Jordan	57
4th	Dave Goff & Roger Roberts	36

#### GROUP 3

1st	Denis Groombridge & Glenys Derrick	90
2nd	John Taylor & Ian Fennemore	71
3rd	Keith Elder & Pete Walters	66
4th	Guy Secrett & Eileen King	62

#### GROUP 4

1st	Tom Bonikowski & Sandra McCormick	88
2nd	Richard McHale & Keith Sichel	78
3rd	Terry Alleyne & Lesley Marti	74
4th	Jerry Turner & Eleanor Tarbox	73

VIC BANKS

# The History of Electric Wires and Cables

## PART I: INTRODUCTION AND EARLY TELEGRAPH CABLES (1730 - 1816)

By R.M. Black

### INTRODUCTION

At the present day electric wires and cables in all their variety are so familiar that they are almost taken for granted. It is often forgotten that most of them are of comparatively recent development, although the processes by which they are made derive from others which have existed from the time of the pharaohs, for example, wire drawing through dies was known in ancient Egypt and the twisting and stranding of fibres in rope making must be still earlier in date.

As recently as one hundred years ago, there was no electric incandescent filament lamp, arc-lighting had only just been introduced for the illumination of large open spaces such as the Gare du Nord in Paris, and on the Thames Embankment. The cable industry as such was virtually non-existent. Up to that time, electric cables in primitive form had been used for military and telegraph applications and in particular the cross-channel and trans-Atlantic telegraph cables had stimulated interest in such cables and resulted in the formation of special companies such as the Indian Rubber and Gutta Percha Company and The Telegraph Construction and Maintenance Company which combined the various facilities for core stranding, insulating and armouring hitherto carried out by individual companies specializing in wire, gutta percha products and wire ropes.

The widespread use of electricity depended upon a number of factors, not least amongst these was a suitable source. Up to 1800 friction machines of one kind or another were used to provide electrostatic charge, but with the discovery of the voltaic cell by Alessandro Volta in that year, a continuous reproducible current became available which facilitated the discovery of the carbon arc by Moyes in 1801 and its spectacular demonstration by Humphrey Davy in 1808. The discovery of the principle of the dynamo by Michael Faraday in 1831 improved the situation but it was only with the advent of Gramme's ring dynamo in 1871 that a really satisfactory and economical source of power became available.

## Early Telegraph Cables

In the early years of the eighteenth century many natural philosophers experimented with electricity with a view to establishing its applications. Among these was one Stephen Gray FRS, described as 'a Charterhouse Pensioner', who demonstrated the principles of conduction and insulation in 1730 by suspending a damp hempen line on silk threads. He found that he was able to transmit electrostatic charges for distances of up to several hundred feet. When metallic wire was substituted for the damp hempen cord, the charge could be carried over circuits several miles long.

Six years later, John Woods improved on the system and in 1747 Sir William Watson FRS constructed a two-mile line with an earth return. This circuit was set up in the July of that year and crossed the Thames over the old Westminster Bridge. In order to demonstrate the effectiveness of the circuit, it was completed through the body of an assistant, who held the far end of the wire in one hand and with the other touched the water with a metal rod. It was reported that his reaction to the static discharge from a Leyden jar 'completely vindicated the result which had been anticipated'.

## Don Francisco Salva

An interesting development which is the first recorded occasion of the use of paper as an electrical insulating material was described in December 1795 when Don Francisco Salva (1751-1828) presented a paper describing his experiments in telegraphy to the Academy of Science in Barcelona. In the course of his paper he also suggested the possibility of underground transmission by cable: "..... it appears, little short of impossible to erect and maintain so many wires (with the electrostatic telegraph system that he was contemplating, Salva would require 22 wires, one for each of 22 letters of the alphabet) for even with the loftiest and most inaccessible supports, boys will manage to injure them; but as it is not necessary to keep them very far apart, they can be rolled together in one strong cable, and placed at a great height. In the first trials made with a cable of this kind, I covered each wire with paper, coated with pitch or some other dielectric substance, then tying them together, I bound the whole with more paper, which eventually prevented any lateral escape of the electricity. In practice the wire cable could be laid in subterranean tubes, which, for greater insulation, should be covered with one or two coats of resin".

This grand concept resulted in the laying down of a 26-mile long telegraph line between Madrid and Aranjuez. By means of electrostatic charges Don Salva managed to transmit effective signals over it. Any underground sections would no doubt be out of sight if not out of reach, of the boys!

## Baron Von Schilling

The next interesting development is due to a Russian engineer Pawel Lwowitch Baron Schilling Von Canstatt who was attached to the Russian Embassy in Munich. He had been associated with the German physiologist S.T. Von Sömmering in the development of an electrochemical telegraph in 1809. This was an apparatus in which direct current from a voltaic pile was made to bring about the decomposition of acidulated water at the receiving end. There were 35 wires each designating a letter or figure. At the transmitting end the wires terminated in a series of copper cups indicating the different characters. The voltaic cell could be connected to any one of the copper cups at will. At the receiving end there were 35 glass tubes immersed in acidulated water which collected the bubbles of gas released by the current flowing through the wires over which the tubes were situated. By means of identifying labels the appropriate characters sent were indicated. Sömmering managed to transmit messages through a 1000 foot length of multi-core cable in this manner. The construction of the cable was of interest and was as follows:-

Each copper wire was given a coating of gum lac then covered with silk thread, the wires were laid up or bunched together and the core coated with more hot gum lac and finished with a lapping of ribbon impregnated with the same substance. This system was later used with up to 10,000 feet between the transmitter and the receiver.

During the years 1812 to 1815 Baron Von Schilling carried out a series of experiments on the electrical detonation of mines and developed a prototype submarine cable which he referred to as "a subaqueous galvanic conducting cord" which he used under the rivers Neva and Seine for the purpose of exploding mines. The cable consisted of a copper wire which had been insulated with a solution of India rubber, dried and varnished. Incidentally, this was the first insulated electrical conductor which, with a slight stretch of the imagination could be called an electric power cable as distinct from the telegraph lines which had hitherto been developed. Schilling was to go on later and develop the first electronegative telegraph.

(to be continued)

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### SEEN

at the Proms:  
"BRITANNIA RULES OK?"

at Nottingham University:  
"DYSLEXIA RULES KO?"

and not a million miles from Buckingham Palace:  
"QUEEN RULES UK?"

# Round The World

List the countries, in which the following are to be found, in the grid and rearrange the letters in the central column to give the name of an Eastern Block country and its capital:

- 1 Paris
- Phnom Penh
- Teheran
- Helsinki
- Jerusalem
- Bruxelles
- Peking
- Belgrade
- Bangkok
- Djakarta
- Istanbul
- Canberra
- 13 Damascus

1

		F	R	A	N	C	E			
C	A	M	B	O	D	I	A			
		I	R	A	N					
			F	I	N	L	A	N	D	
		I	S	R	A	E	L			
		B	E	L	G	I	U	M		
			C	H	I	N	A			
Y	U	G	O	S	L	A	V	I	A	
		T	H	A	I	L	A	N	D	
		I	N	D	O	N	E	S	I	A
			T	U	R	K	E	Y		
		A	U	S	T	R	A	L	I	A
		S	Y	R	I	A				

13

B	U	L	G	A	R	I	A	S	O	F	I	A
---	---	---	---	---	---	---	---	---	---	---	---	---

Answers to Richard Hammond by Monday 9th January 1978. A small prize will be given to the first correct entry drawn from a suitable hat.

# Musical Quiz

All the words listed below fit into the crossword pattern shown. They will only fit in one way. One word has been filled in for you.

Answer on Page 32

## 4-Letter Words

- ~~Bass~~
- ~~Clef~~
- Flat
- Keys
- Poco
- Rest
- Stir
- Tone

## 5-Letter Words

- Canon
- Chord
- Delee
- Etude
- Forte
- ~~Fugue~~
- Largo
- Major
- Minor
- Notes
- Pitch
- Scale
- Study
- Suite
- Tonic
- Touch

## 6-Letter Words

- Adagio
- Choral
- Da capo
- Finger
- Legato
- Lesson
- Octave
- Rhythm
- Scores
- Sharps
- Sonata
- ~~Triads~~

## 7-Letter Words

- Allegro
- Cadenza
- Discord
- Natural
- Quavers
- Scherzo

## 8-Letter Words

- Concerto
- Dal segno
- Dominant
- Exercise

## Interval

- ~~Preludes~~
- ~~Staccato~~

## 9-Letter Words

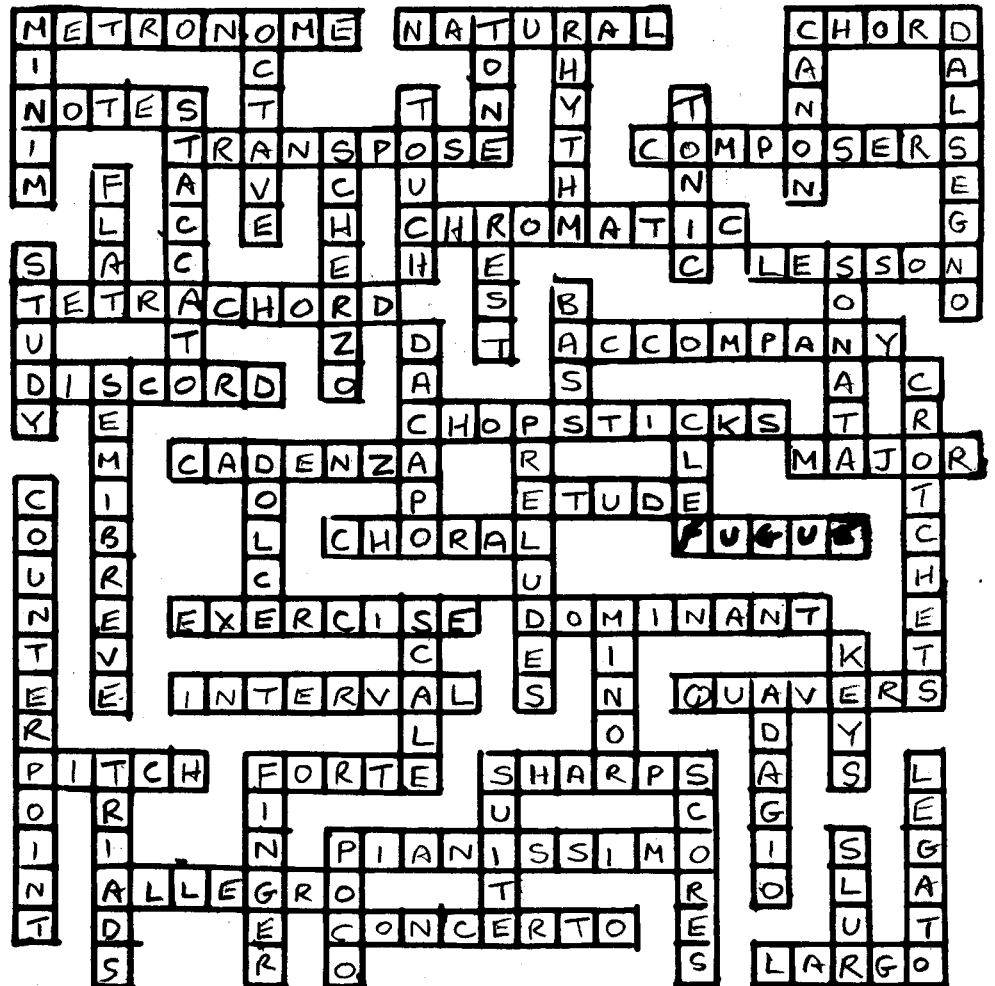
- Accompany
- Chromatic
- Composers
- ~~Crotchets~~
- ~~Metronome~~
- ~~Semibreve~~
- ~~Transpose~~

## 10-Letter Words

- ~~Chopsticks~~
- ~~Pianissimo~~
- ~~Tetrachord~~

## 12-Letter Words

- ~~Counterpoint~~



# Who Plays Chemin de Fer?

There are five garages, attached to five houses in a quiet suburban street. Each garage has a different car owned by men with different jobs, who have wives of different nationalities. The men vote for different political parties and have different hobbies.

The Doctor drives the Princess.  
The Accountant has a Welsh wife.  
The Escort driver enjoys etymology.  
The Scientist is a DIY expert.  
The Escort driver lives immediately to the right (your right) of the Jaguar driver.  
The Conservative has an English wife.  
The Labour voter owns the Rolls-Royce.  
The horse-rider lives in the middle house.  
The builder's car is in the first garage on the left.  
The man who votes Surbiton Nationalist lives in the house next to the man with the Scottish wife.  
The Labour voter lives next to the man with the Irish wife.  
The Liberal goes angling.  
The Teacher votes National Front.  
The Builder lives next to the Mini driver.

Who has an Australian wife?  
Who plays Chemin de fer?

Answer on Page 33

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## That Brown Fox—Again!

In the Christmas 1969 edition of the BT we issued a challenge for a sentence containing all the letters of the alphabet, but shorter than:-

"Give back my quartz sphinx, jade wolf".

This contains 30 letters thus being 5 better than "the quick brown fox jumps over the lazy dog".

Now we are offered the following:

"Cwm fjord bank glyphs vext quiz"

We will consider giving prizes to

- (a) Any typist who can type it 3 times, blindfold, in under 10 secs!
- (b) Anyone who can offer a translation!!
- (c) Anyone who can do better !!!
- (d) Or anyone who can meet the challenge in any other language!!!!



# The Times is ....

The Times is read by people who run the country.

The Daily Mirror is read by people who think they run the country.

The Guardian is read by people who think they ought to run the country.

The Morning Star is read by people who think the country should be run by another country.

The Daily Mail is read by the wives of people who run the country.

The Financial Times is read by people who think the country ought to be run as it used to be run.

The Daily Telegraph is read by people who think it still is.

The News of the World readers don't care who runs the country provided it gives plenty of xxx!

The Sun readers are content to accept the bare facts, not necessarily in the country.

Bush Telegraph is read by.....?  
Perhaps you'd like to fill in your own description!

No prizes for this, but send your version to the Editorial Board. In a plain, brown sealed envelope please!

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## Children's Christmas Party

The raffle held in aid of the Children's Christmas Party raised the splendid sum of £53.25 net.

Prizewinners were:-

1st Prize: Russell Pride (Bottle of Whisky)  
2nd Prize: Pat Donovan (Bottle of Martini)  
3rd Prize: Dennis Lott (Box of Chocolates)

The 1st and 2nd prizes were kindly donated by the Social Club.

Father Christmas wishes to thank everyone who bought tickets and especially the ladies of the Typing Pool who sold them all. He thinks however that the success or failure of this annual beano should not depend on last minute generosity but should be adequately financed from the outset.

Full report of the festivities next month.

# Christmas Treaser

How good is your knowledge of the British countryside?

Identify the leaves of the eight common British trees shown below and insert the names in the boxes provided. Rearrange the letters between the heavy lines to give the name of a well-known place.

The answers are to be found on P. 32

1									
2									
3									
4									
5									
6									
7									
8									
Answer:									

# H.S.A.

H.S.A. (HOSPITAL SAVING ASSOCIATION)

## "CROWN PLAN SCHEME"

As from 1st Jan. 1978, all staff wishing to become a member of the above scheme, may arrange to have their contribution deducted direct from their salary, each month:-

### The Benefits

Cash payments for:-

Hospital 'In-Patient' Treatment (incl. Nursing Home & Convalescent)  
Maternity Grant  
Chronic & Mental Illness  
Dentures  
Optical  
Home Help & Consultation Fees

To Cover: Contributor, Spouse and all children under 16 years

The Cost: £13 p.a - or £1.08 per month from salary

For full details and/or enrolment form apply to:-

H. Charman (Accounts) Tel. Ext. 250  
(HSA Secretary - WG64 Group)

p.s. A reminder - as from 1st January 1978 the existing 'Standard Scheme' payroll deduction facility will cease. Any staff member wishing to remain a contributor under the 'Standard Scheme' must deal direct with HSA, 30 Lancaster Gate, Paddington. - cost £2.60 p.a.

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### CHRISTMAS CASH

If you are waiting until the last minute to snap up a bargain turkey don't forget to have enough money in hand. The banks close at 12.00 noon on Friday 23rd December.

Or do you fancy egg and chips for Christmas lunch?

p.s. Last time for handing-in pre-Christmas cheques to the Accounts Department - 11.30 am Wednesday 21st December.

Note that there will be no cash transactions of any kind in the Accounts Department on Thursday 29th or Friday 30th December.

# Wine Tasting

We regret to say that there is no report of the recent Wine Tasting evening. Why? Well, the Bush Telegraph Editorial Board, at its regular meeting on the Monday after the Friday before, were discussing their collective hangovers (hangover?) and what a good time was had by one and all, in fact over a hundred and all, and how all those wines tasted deliciously different at half past seven and all the same by eleven O'clock, and what wonderful chaps Dave Goff and Denis Groombridge were for organising it all (and Denis was particularly loud in his praise), and would they please organise another one next year only don't include that fizzy stuff that tasted like raspberrade, and how Annette absolutely excelled herself with a smashing buffet, and Ted said he helped to cut all those squares of cheese to go with the pineapple chunks, and Mike said his wife would have kicked him out of bed if he'd eaten any more of that Cotswold variety, and how Dennis Cooper was the only one listening to the music because only he knew it was being played because he'd taped it anyway (good lad Den, same again next year), and how Eileen King couldn't resist selling raffle tickets and Sam-the-gate won a bottle of wine, and Sam's friend won another one and we never found out who won the third, and Yvonne Ferrier won the booby prize and everyone reminded her of it for the rest of the evening, and in fact about half the meeting was taken up discussing the whole affair. So we decided to ask a suitable chap to write a report, but apparently he didn't get round to it, so he asked another chap, and this other chap was going away for a week so he couldn't do it, so he asked the Editorial Board if they knew any other suitable chap who would write a report on the Wine Tasting. Which is why there isn't one.

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## Executive Council

On Thursday 8th December an Extraordinary General Meeting was held to elect three members to the Executive Council in order to bring it up to its full quota of four officers and seven members. The present Council is now as follows:

Dr. P.C. McNeill  
S.M. Castle  
J. Heggie  
P.T. Donovan

Chairman  
Vice Chairman  
General Secretary  
Honorary Treasurer

E.I. Cooke  
Y.M. Ferrier, Miss  
R.A.G. Fraser  
D.J. Green  
D.R. Groombridge  
S.M. Hurst, Miss  
R.G. Maidlow

# Poets Corner II

## FLEXTIME

My life is governed by the clock,  
Beginning with the bell  
Of my alarm which is my cue  
To dash around like hell.  
A cup of tea, a slice of toast,  
Then rush to catch the train,  
Then belt out of the station  
In time to key my name.

At half past twelve, equipped with bag,  
I hurry out the door,  
And briskly trot to Shepherd's Bush  
For the evening's Plat du Jour.  
A quick scan in the butcher's,  
A cup of tea and snack -  
I glance at my unfailing watch -  
Good God! I should be back!

So laden down with evening meal  
I hurry back again.  
This time Wood Lane seems longer,  
Oh! gosh, here comes the rain!  
But once back in the office  
The afternoon ticks by,  
Until its twenty five past five -  
My God! It's time to fly!

I hurry to the station,  
And once I'm warm at home  
With dinner cooked and crocks all clean,  
The evening is my own.  
I dream of relaxation,  
To get up when I please,  
To eat and sleep at any time,  
Such luxuries are these.

Then once again it's time for bed:  
A Robot I've become.  
I'm just a slave to time it seems,  
I'm always on the run.  
I've just one hope when I retire  
And friends around me flock,  
They will not do the thing I dread -  
Present me with a clock!

Maureen Jackson

# Christmas Cheer

## HINTS TO HELP YOU CHOOSE YOUR CHRISTMAS WINE

Let us start on a colourful note.

Glasses; these should not be coloured, unless you want to hide the colour of the wine, they should have a hole at the top but not at the bottom. A glass curving in at the top and 2/3 full will keep the "nose" of the wine.

Keeping to the colour theme, young red wines should have a purple tinge, a wine that looks too black will be thick with tannin. A too young claret will look thin and light red. An aged one will have a red-brown look with depth of colour. A rosé should be fresh pink and not a brownish-pink, as this indicates it is too old; rosés should be drunk when young and fresh. White wines, if young, will have a greenish tinge, age will turn them golden and the sweet sauternes, which will mature as they are heavy wines, will become a deep golden colour.

When you have chosen your bottle - not from the window, as the cork may have dried out and let the air in, also, sunlight ruins wine - make sure it has AC or VDQS (France), or if Italian, DOC on the label; also see if it is bottled in country of origin, as the chances are, it will be the better wine.

The sweeter the wine, the colder it should be; well chilled for dry white and Beaujolais, room temperature for reds (this means 60°F and not 70°F). The reds may be chilled if too warm, as they will quickly reach room temperature in the glass. It has been shown that red wines are at their best as soon as the cork is drawn, it does not need to breathe before pouring. The only time a wine may need to breathe is when there is a smell of sulphur, (used to keep the wine healthy) the smell should go after a few minutes, if not take it back. Also take it back if it is oxidised; it will have a metallic smell and taste and will most likely be the bottle that has been standing in the window for 6 months. The other major wine fault is a 'corked' wine, in this case the cork is diseased and the result is a musty smell and taste.

To help you in your search for a good bottle of wine, for Christmas or any other occasion, we include a supplement listing some good buys at around £2 or less per bottle from the larger retail outlets. These come from 'The Good Wine Guide' and have been tasted by the experts. The best wines are listed first in each section, but the last are also good wines.

"Happy (hic!) Christmas"

IMBIBER

(If you can't find something in the supplement to suit your taste, try the recipes on the next two pages).

## Christmas Cheer (continued)

Here are a few suggestions for those not averse to a little alcohol at this time of year.

Two ideas for parties:

### 1. Cider Cup

Ingredients:

The juice and grated rind of 2 lemons  
50 g ( 2 oz ) castor sugar  
2-3 tablespoons brandy  
2½ litres (2 quarts) cider  
1 litre (2 pints) soda water or lemonade  
2 red eating apples  
a few cloves

Method:

Mix the lemon juice and rind, sugar and brandy, and chill. Stir in the cider and soda water or lemonade and strain the liquid. Cut the apples into slices and float these and a few cloves on top of the punch. Serve immediately.

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### 2. Mulled Burgundy

Ingredients:

850 ml (1½ pints) water  
175 g (6 oz) castor sugar  
6 sticks cinnamon  
6 cloves  
1 lemon, sliced  
1 orange, sliced  
1½ bottles burgundy or other  
full-bodied red wine.

Method:

Bring the water, sugar and spices to the boil and simmer for 5 minutes. Add the lemon and orange slices and allow to stand for 10 minutes. Pour the wine into a large pan and strain in the water. Remove the lemon and orange slices from the strainer and return to the pan. Heat the wine until just below boiling point but do not allow it to boil. Serve very hot, in thick glasses with handles.

## Fruit Liqueurs

Why not try a few small scale experiments using your favourite fruit juices. This will make a really special drink, ideally suited to quiet after-dinner relaxation over the holiday. Concentrated fruit juices are available in most amateur winemaking and health food shops.

Example:

### Blackberry Liqueur

Ingredients:

2 litres (4 pints) blackberry juice  
900 g (2 lb) sugar  
1 tablespoon grated nutmeg  
2 tablespoons whole cloves  
400 ml (15 fl. oz.) brandy

Method:

Place the blackberry juice and sugar in a preserving pan or large saucepan. Bring to the boil and, if necessary, remove the scum from the top.

Add the nutmeg and cloves and simmer for 15 minutes. Remove from the heat and add the brandy. Pour into a crock or jug and cover the top tightly. Set aside for 3 days. Sterilise and dry 2 or 3 bottles.

Strain the liqueur through a piece of muslin placed over a jug or mixing bowl. Pour the liqueur into the bottles and seal with new corks.

All liqueurs made in this way mature with storage, but as it is a special occasion it wouldn't hurt to try them immediately.

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A Brandy Sauce for the Christmas Pudding that is unusual in that it is hard.

Ingredients:

75 g (3 oz) margarine  
75 g (.3oz) soft brown sugar  
2-3 tablespoons brandy  
Finely grated rind of  $\frac{1}{2}$  orange (optional)

'This is sufficient for 4 people'

Method:

Cream the margarine and sugar together until well mixed. Beat in the brandy a little at a time, together with the orange rind, if used. Chill and allow to harden before serving.







No CARROTAGES! DON'T RISK IT!  
CONDITIONS IN THERE ARE ABSOLUTELY APPALLING!

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Who plays Chemin de Fer? Answer.

The Builder plays Chemin de Fer.  
(Full solution on request).  
The Teacher has the Australian wife.

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The Editorial Board would like to thank everyone who has contributed to this Bumper Christmas Edition of the BT. The response has overwhelmed us, and we apologise to those whose contributions we have had no option but to hold over until the next issue. Never fear - they will be used: in the meantime, keep 'em coming!

May we make a special appeal for good quality, interesting photographs (preferably black and white) for use on the cover. A payment of up to £2 will be made for suitable material.

Items for the January issue should reach us by Monday 9th January.

# BUSH TELEGRAPH

# WINE SUPPLEMENT

## REDS

ORDINARY	: Yugoslav Cabernet 1975 (D)	1.39
	: Sangredetoro (Spanish) (V)	1.55
	: Yugoslav Pinot Noir 1975 (C, W, X)	1.30-1.38
	: Vino Tinto (Spanish) (T)	0.99
MIDI	: Safeway Spanish (Q)	1.11
	: Cotes du Marmandais VDQS (A)	1.39
RHONE AND	: Domaine de St Esteve (M)	1.24
PROVENCE	: Beaumes-de-Venise AC (E)	1.65
	: Belliard, Crozes Hermitage AC 1972 (H)	1.94
	: Other Rhones, all AC: '72 - 1.89 (F); '74 - 1.98 (V); NV - 1.75 (G); '76 - 1.89 (A); '76 - 1.59 (X).	
	: Chateaufort-du-Pape all over £2. Very good ones: '74 - 2.19 (F); '74 - 2.32 (Y).	
SPAIN	: Four of the five good ones are from the same source (A), and they keep.	
	: Federico Paternina 1970	1.89
	: Tres Marqueses 1975	1.72
	: Federico Paternina Gran Reserva 1964	2.49
	: Rioja Bordon 1971	1.95
ITALY	: Fuenmayor (H)	1.79
	: Rubesco Torgiano DOC 1971 (H)	1.59
	: Spanna 1971 (A)	1.80
	: Chianti DOC (A)	1.65
	: Chianti Classico DOC 1974 (G)	1.40
	: Valpolicella Classico DOC 1973 (G)	1.29
	: Cabernet 1973 (A)	1.65
BEAUJOLAIS AND	: Burgundy will cost more than £2 in most cases. Beaujolais should be 1976; good ones (all AC) from: '76 - 2.19 (A); '76 - 1.79 (T); '76 - 2.43 (N); '76 - 1.85 (E); '76 - 1.85 (S); '76 - 1.99 (A).	
BURGUNDY	: Mercurey AC, 1972 (E)	2.50
	: Brouilly AC, 1975 (S)	2.35
	: Julienas AC, 1976 (A)	2.45
	: Morgon AC, 1976 (A)	2.40
	: Cote de Beaune Villages AC (F)	2.24
	: Brouilly AC, 1976 (A)	2.45
	: Julienas AC, 1975 (Q)	2.39
BORDEAUX	: A high number of the clarets were good, but note that nearly all were Bordeaux or chateau - bottled. All examples are AC.	
	: Ch. de Cardailhan 1970 (S)	2.35
	: Ch. Coufran 1966 (R)	2.15
	: Claret (G)	1.60
	: Ch. du Moulin 1973 (C)	1.64
	: Ch. Caronne Ste Gemme (A)	2.29
	: Ch. Grand Village 1973 (A)	1.60
	: Ch. La Tour Blanche (T)	1.95

A = Augustus Barnett  
 B = Galleon Wine  
 C = Budgen  
 D = Fairdeal Vintners  
 E = Sainsburys  
 F = Victoria Wine  
 G = Marks & Spencer  
 H = Peter Dominic  
 I = Oddbins  
 J = Threshers  
 K = Woolworths  
 L = Tesco  
 M = Winealands

## WHITES

ITALY	: Pinot (Veneto) Sartori (A)	1.49
	: Frascati Superiore Secco DOC (A)	1.49
LOIRE	: Muscadet de Seure et Maine AC (B)	1.39
	: Sancerre AC Ch. de la Fontaine-Audon (A)	1.79
BURGUNDY	: Vouvray AC (A)	1.20; 1.55 (A)
	: St-Veran AC, 1976 (A)	2.19; 2.05 (A)
	: Macon Villages AC, 1976 (D)	1.99
	: Chablis Prisse AC, 1975 (E)	1.99
	: Petit Chablis AC, 1975 (E)	2.15
	: Pouilly-Fuisse AC, 1975 (F)	2.10
	: Macon Blanc Villages AC (G)	1.75
MOSELLE	: Bernkasteler Schwanen Kabinett 1972 (H)	1.99
	: Piesporter Michelsberg Spatlese 1976 (H)	2.09
RHINE	: Wehlener Sonnenuhr Kabinett (I)	1.99
	: Beidesheimer Hofstuck Auslese 1975 (H)	2.45
	: Bechtheimer Geversberg Silvaner (E)	2.45
	: und Riesling Spatlese (J)	1.65
	: Ilbesheimer Herrlich Kabinett (A)	1.69
	: Dom Frinz Bereich Nierstein (A)	1.89
LIEBFRAUMLICH	: Blue Nun is biggest seller, but not very good. Only two good ones. Some O.K. from L, G and M. Very good one from C, but £3.09. Liebfraumlisch 1975 (Grants of St James) (F)	1.45
BORDEAUX-DRY	: Silver Goblet Liebfraumlisch (O)	1.39
	: Only one "good" and two "O.K." (A)	1.65
	: Le Reveillon Graves AC Blanc Sec (A)	1.35
	: Bordeaux AC Blanc Sec (A)	1.61
BORDEAUX-MEDIUM AND SWEET	: Belair Sauvignon Sec AC (F)	1.46
	: Bordeaux Blanc AC 1974 (Med) (Q, C)	1.46
	: Sauternes AC - Harvey Prince (R, F)	1.59, 1.89
	: Sauternes AC - Ch. Lafon (S, T)	1.90, 1.85
	: Barsac AC (S)	1.75
	: Monbazillac AC (U)	1.45

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N = Arthur Cooper  
 O = International Stores  
 P = Bishops  
 Q = Safeways  
 R = Lennons  
 S = Davisons  
 T = Waitrose  
 U = Spar  
 V = Fuller, Smith & Turner  
 W = Roberts  
 X = Cullens  
 Y = Presto