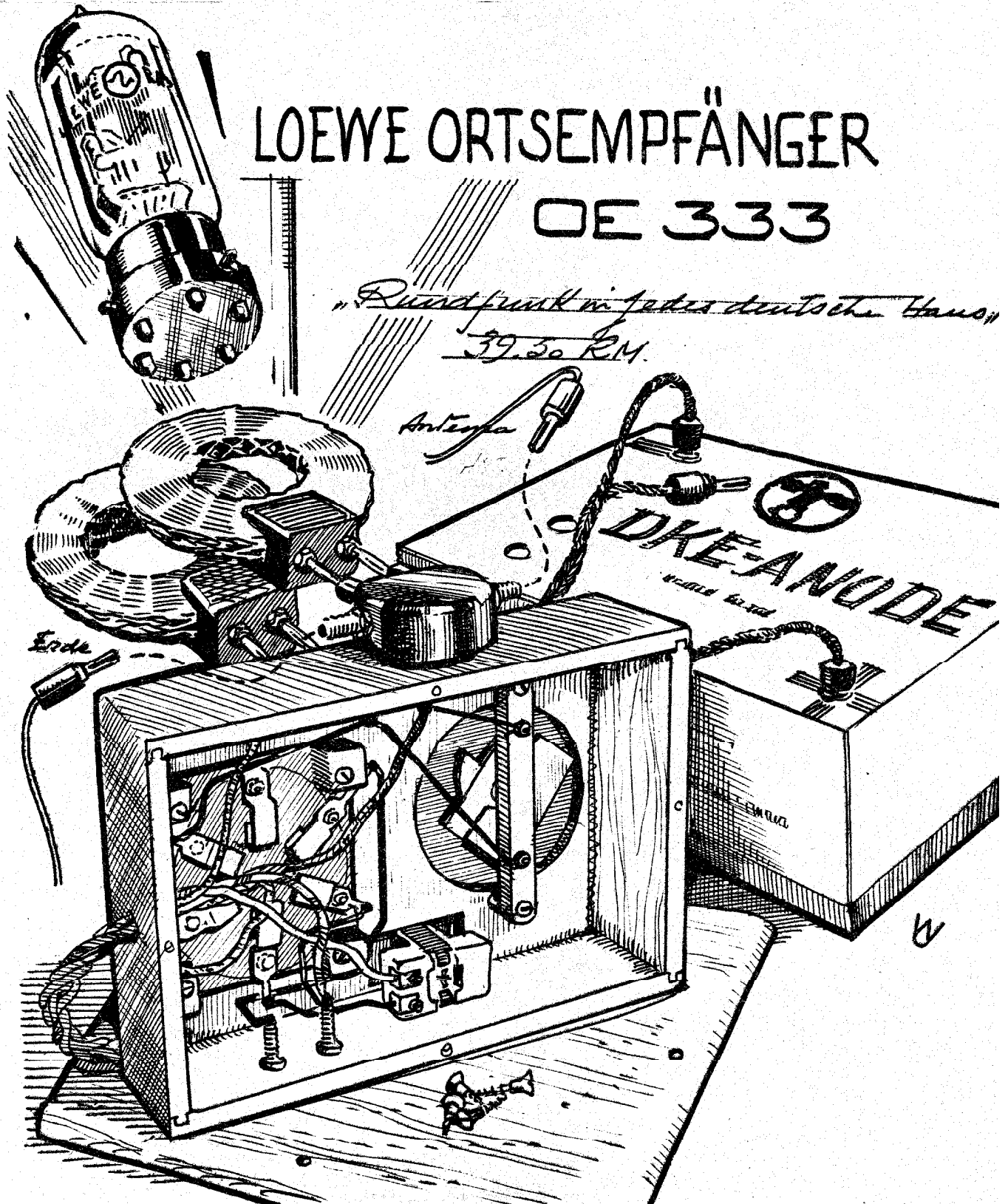


WIRELESS

c BVWS 6.1983

VOLUME 8. NUMBER 1.

BULLETIN OF THE BRITISH VINTAGE WIRELESS SOCIETY



LOEWE ORTSEMPFÄNGER OE 333

*„Rundfunk in jedes deutsche Haus“
39.50 RM.*

Antenne

Erdk

DKE-ANODE

2

COVER STORY

Illustrated by Bulletin artist Norman Jackson on the front cover is the rare OE333 Loewe one-valve receiver, which was introduced at the Berlin Wireless Exhibition in 1926, but was also produced from a London factory. It is remarkable for its simplicity: just one valve, two coils, a condenser and a switch. But it is that one unique valve which made it so clever, for the 3NF is really three triodes plus all the necessary RC coupling components in one "bottle": the first "Integrated circuit". With its minimum of components and its simple wooden box, it would seem to be an ideal set to "reproduce" --- given a supply of the valves. Well, there's nothing wrong with an honest reproduction, although such things hold little interest to most enthusiasts. But a deliberate and fraudulent "copy", intended to be passed off as the real thing is another matter. But that is what somebody, possibly in Europe, has perpetrated: no doubt motivated by the fact that Loewe OE333 sets can change hands at several hundred pounds. At Harpenden in June, several members took along their Loewe OE333 sets at my request, and with the help of Tony Constable, we compared them. Two out of the five proved "fakes"! At first sight, the fakes looked very authentic and one could understand how even the experienced could be fooled. Even reputable dealers who had passed on such sets in good faith seem to have been tricked. But after all, one does not see enough Loewe's to be really conversant with details. Having five sets altogether for examination was the rarest of opportunities and was one which it would be useful to repeat in the case of other apparatus. Exchange of information among members is one of the most important services the BVWS can offer. It is hoped that in a future Bulletin, we shall be able to offer some tips on what to look for when examining equipment with a view to purchase or restoration. Hints and tips which could form the basis for useful articles on the subject would be much appreciated — EDITOR.

NOTE: Looking at the Loewe sets, the following points were noted in the fakes: (1) Woodwork obviously done by hand laboriously instead of in clean, single operations as with machining (i.e. holes and corners cut roughly, then finished with sandpaper); (2) Later pattern switch fitted, having a red button and not black; (3) Ebonite coil-holder turned on a lathe instead of clean-cast; (4) Case corners "buted" instead of jointed, using modern white glue instead of vintage animal-glue; (5) Wire lead taken from old telephone; (6) Modern condenser instead of original aluminum and mica dielectric one; (7) Modern brass and chrome terminals instead of original nickel-plated ones; (8) Recent shiny bright soldering and modern wiring.

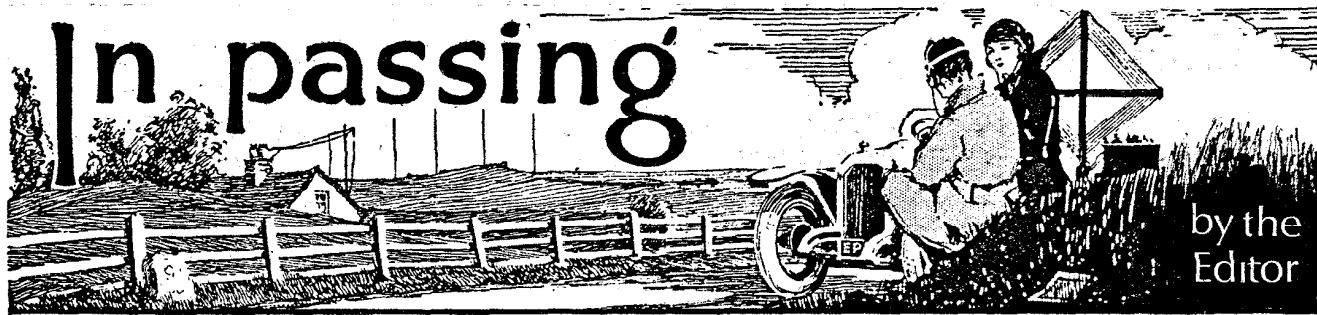
BOOKS

M. Guy Biraud of the French Vintage Wireless Society has produced a comprehensive well illustrated and informative booklet on "collectibles" manufactured by Philips from 1928 to 1948. It is in English and French, and has 48 pages of drawings and descriptions of a large number of sets produced in Europe. Guy has invented a system for classifying the "Collectibility" value of wireless equipment, which takes into account Historical significance, Aesthetic appeal, Technical importance and condition. The book is available at £9.50 from Guy at 1, Place du Puits Lavau, 85200 Fontenay Le Comte, France. He has also produced a colour poster depicting the "family tree" of the valve, which costs £5.50.

* More book reviews on page 4.

BULLETIN OF THE BRITISH VINTAGE WIRELESS SOCIETY. COPYRIGHT 1983.

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With fellow vintage wireless enthusiasts in countries including Holland, Belgium, Germany, France, Australia, Denmark, New Zealand, Canada, Norway, Sweden, Italy and the United States, our contacts with other wireless societies are growing stronger. An annual meeting of representatives of some of the European Vintage Wireless societies is now well established and it is currently hoped that there will be a joint meeting between the American Antique Wireless Association and our own society in June '84. If all goes according to plan, this may develop into a more international Meet. An intimation of the reaction of members at home and abroad to the idea would be much welcomed. The date for the visit to the UK of our American friends has been fixed for 7 or 14 June next year and the activities planned will include visits to museums, a conference, a swap-meet and possibly a Dinner.

On the subject of meetings, it seems that members in the South and West of England have welcomed the Swapmeets arranged by member Bill Journeaux in Romsey. It would be nice if a member in the North could arrange a similar event in that part of the country. Although our meetings at Harpenden attract members from far away, there are some who find it difficult to get there.

Members might like to make a note about the annual "G2NM" commemoration event organised by Chichester and District Amateur Radio Society at the "Vintage Wireless Day" to be held at the Chalk Pits, Sussex, on 18 September. The "G2NM" station was operated by wireless amateur Gerald Marcuse, president of the Radio Society of Great Britain in 1929, who pioneered Empire Broadcasting using a home made transmitter and a Zeppelin aerial from his Surrey home on Sept. 1, 1927. The BBC started Empire Broadcasting tests a month later but did not begin a regular Empire service until 1932.

Eight famous Murphy wireless sets will be on display at the Geffrye Museum, London, from September 9 to October 23. The sets, all by Murphy, have cabinets designed by Professor R.D. Russell who did a good deal of innovative work for Murphy Radio, which he joined in 1932. The radios on show at the museum are part of a special exhibition which also includes work by his wife Marian Pepler. The exhibits will augment the interesting 'Thirties rooms already completed at the museum in Kingsland Road London, E2, where there are also displays of household articles of the 19th century and some fascinating Victorian toys.

Enthusiasts who collect valves often have one or two vintage electric light bulbs too. The generic connection is, of course, close, for it was Thomas Edison's observation of the "Edison Effect" which led to the development of the valve. If you are interested in bulbs, you may not have seen "The Glowlamp Collector", a modest but amusing and informative news-sheet which is now becoming well established.

It contains items of the history and development of lighting and connects collectors all over the world. Anyone wishing to see the next issue should send 3x12½p in stamps to "Pip" The Glowlamp Collector, 35a Maclise Road, London, W14.



I have been asked by Mike Kemp, our membership secretary to remind members who have overlooked paying their subscriptions that these were due in April. The Bulletin is being sent as a courtesy to all those on last year's list.

"POWER OF SPEECH" by Peter Young. (George Allen and Unwin.1983. 221pp).

This book describes the history of Standard Telephones and Cables (STC) from 1883 to 1983, a period which covers almost the whole of the history of speech transmission in this country both through wires and by wireless. In a very readable manner the book takes us through all the internal and ownership changes of this organisation and follows the course of social and political changes through which the century has staggered. The company started as the London office of Western Electric with "two men and a boy" as it were. At first the company simply imported American-made equipment, but it soon began manufacturing cables at what was previously the Fowler-Waring Cables Company at North Woolwich. Cables and telephone equipment were always the mainstay of Western Electric, but, as vintage wireless enthusiasts know only too well, the company became involved in transmitters and wireless receivers in the 1920's. The 2WT transmitter of Western Electric operated at first from the company offices in Norfolk Street off the Strand just round the corner from 2LO. When the BBC started its service on 14th November, 1922, 2LO got under way immediately and 2WP, after a memorable journey by steam lorry on a foggy night, arrived at the BBC works at Witton, Birmingham to begin broadcasting 24 hours behind 2LO but just in time to announce the general election results. A few days later it became 5IT and began broadcasting "Children's Corner" with engineer-in-charge A.E. Thompson, becoming the first "Wireless Uncle" - "Uncle Tom". Western Electric made many items for the new home entertainment industry and collectors nowadays enjoy searching for those distinctive mahogany-boxed sets and amplifiers. The company also became involved with the ~~British~~ Small Arms Company in 1926 when BSA Radio Ltd. marketed the BSA-Standard valves and BSA radio sets. I was disappointed to find no mention of this intriguing link in Peter Young's otherwise fascinating book. In 1925, Western Electric (USA) sold International Western Electric to ITT, when it was given the new name STC. Its interests in radio did not last much longer - there was more money to be made selling telephone equipment to the Post Office. The book follows the ups and downs of STC and its deep interests in, and final withdrawal from the "System X" programme - the modern digital switching system for telephone exchanges. It is well written, sparse on technical hard facts, good on history and does not spare the blushes of the STC board-room ghosts. ARC

CORRECTION: BOOK Review in last issue of the Bulletin .

Unfortunately, a line went missing from Tony Constable's review of John W. Stokes' book "70 Years of Radio Tubes and Valves". The correct sentence (line 22) should read: ".....on page 221 the author claims the words 'Philips-Mullard' never appeared on PM valves after Mullard became wholly owned by Philips in 1927". The underlined words were missing, which made a nonsense of the sentence and what followed. Apologies. to the reviewer and the reviewed for this omission --ED.

Desmond Thackeray is well known to BVWS Bulletin readers for his many contributions over the years. He has recently written a splendid article for IEEE Spectrum (March 1983) entitled "When tubes beat crystals: Early radio directions". In this article, Desmond compares the characteristics of crystal detectors with various thermionic types including the Fleming diode. The carborundum detector comes out so well it makes us realise that the thermionic era was only a passing phase, sandwiched between two solid state eras. The article makes good reading and it is worth trying to get hold of it. ARC

NOTE: An advertisement for John W. Stokes' book appears in this issue. If there is sufficient demand for the book, I will undertake to secure copies for members in bulk, which will mean a saving in postal costs- ED.

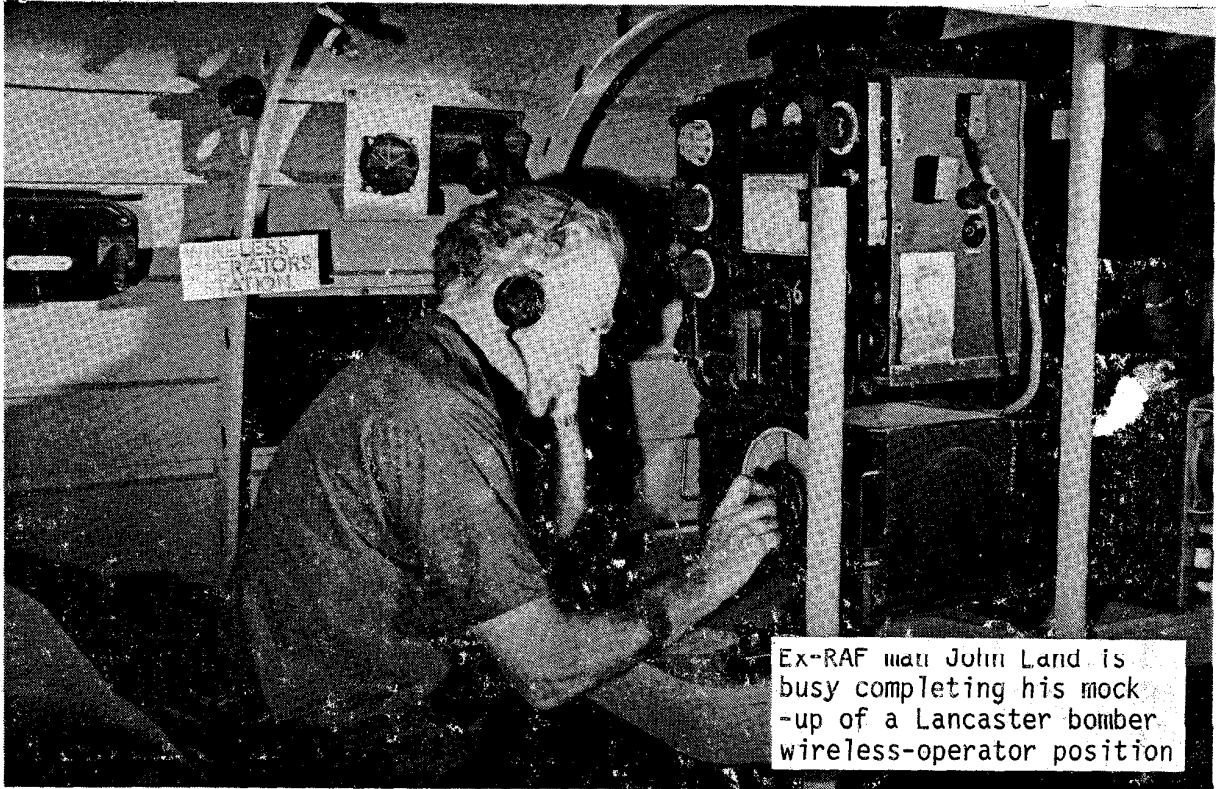


Photography: JONATHAN HILL

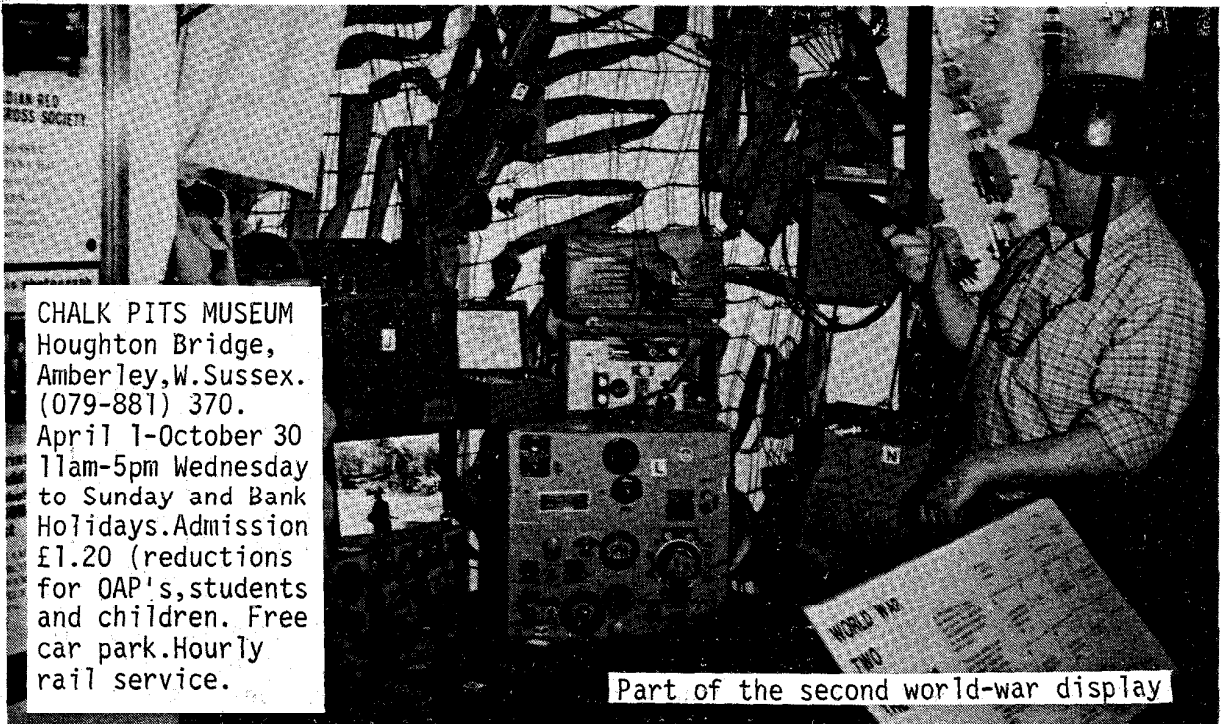
The Chalk Pits

David Rudram in the main exhibition area

The Wireless Museum at the Chalk Pits, Amberley, West Sussex, is on a site which also offers attractions ranging from a nature trail to demonstrations of rural crafts and is close to the seaside. The Wireless Communication Museum, which covers the period just before the first world war to the mid-fifties, is part of the Southern Industrial History Centre, not far from Arundel, some 90 miles from London and 22 miles from Brighton. Housed in restored buildings on a 36-acre former chalk quarry, the centre for study of industrial archaeology has been developed by a charitable trust over the past nine years in a way that presents history as tableaux vivants and not "preserved" dead exhibits. As a result, there is now a working blacksmith there, a potter, a printer, a carpenter and many volunteer engineers - all working in authentic period buildings and using "vintage" tools and techniques. Among the volunteers usually to be found on site in their spare time are radio historian and writer Ron Ham and telecommunications engineer David Rudram of the BVWS, who have spent several years building up the "History of Communications" section of the museum. The nucleus of the exhibition consists of the private collections of Ron and David which they were offered space to display there, originally in a damp, ex-mushroom-growing Nissen hut they opened to the public in 1979. It was large large hut, but it soon proved too small for the developing display and in 1982, the entire collection was moved into two portable school huts which had been acquired. Museum Director Ian Dean and his staff and volunteer helpers had the new premises ready for an official opening by Geoff Arnold, Editor of Practical Wireless, in June of that year. The display is still based on the two original collections, but many items have been added which have been donated by the public. The exhibits have been expertly restored and are attractively displayed with clear and informative labelling. There is a good selection of military transmitting and receiving apparatus from both the first and second world wars: a section which includes home-made gear used by the French Resistance in the last war and David's own authentic-looking replica of an ingenious receiver built in a telephone junction-box by a Channel-Islander who operated it under the noses of the German occupation force, using the dead telephone-line as an "invisible" aerial. Further into the museum buildings, there are displays of early 'twenties receivers with horn speakers and interesting accessories, 'thirties sets in profusion and some choice and



Ex-RAF man John Land is busy completing his mock-up of a Lancaster bomber wireless-operator position



CHALK PITS MUSEUM
Houghton Bridge,
Amberley, W. Sussex.
(079-881) 370.
April 1-October 30
11am-5pm Wednesday
to Sunday and Bank
Holidays. Admission
£1.20 (reductions
for OAP's, students
and children. Free
car park. Hourly
rail service.

Part of the second world-war display

unusual 'fifties and 'sixties sets. Among the most impressive exhibits are a huge art-deco console radio, a magnificent Magnavox BBC-period amplifier with horn-speaker, and gigantic pre-war television sets. Equally fascinating is a display of valves and a large collection of components. Radio amateurs have an operational as well as a display area on the site, and eventually hope to re-create a vintage wireless "hut" there as well as an old-fashioned wireless shop. Like the rest of the Chalk Pits area, the communications exhibition is continually expanding, so there seems always to be something new to see there. But the site offers much more than wireless attractions: there are picnic sites, a nature-trail, a tea garden, souvenir shop, open-air events, a narrow-gauge locomotive, trips in an old open-top omnibus, and nearby pubs. The seaside is only a short trip away and for those who seek culture Chichester's theatre and arts are equally accessible.

ROBERT HAWES

"The Classics"



There are certain pieces of Vintage Wireless apparatus which have a special significance for many enthusiasts: perhaps because of technical innovation or oddity, perhaps because they were important historical landmarks- or even just because of their attractive or odd appearance. Few collectors would deny the Marconiphone V2 the first place- but you may have suggestions as to what should follow.

NUMBER ONE: THE MARCONIPHONE "V2"

By A.R. Constable

Many collectors of early British Wireless equipment own a Marconiphone V2 two-valve receiver; a set well known for its distinctive appearance and bizarre system of "spade" tuning. Introduced to the domestic market in 1922, it was first shown to the public at the "All British Wireless Exhibition" which was held at the Horticultural Hall in London from September 30th to October 7th 1922.

It appears to have been still available until as late as 1927, although it seems to have turned up on the "surplus" market before that. There is a story, the origin of which can be traced and which is probably authentic, of a large number of V2's being sold off cheaply in order to make room for something else. These sets were seen by one of the owners of the Marconi Company in a shop window near Tottenham Court Road at knockdown prices. He arranged for the sets to be bought back- at a considerable loss- so that they could end their lives in a more dignified manner. On a bonfire?

The peculiar tuning arrangement consisted of a copper spade brought across a flat coil - a method used on many of the early Marconiphone receivers. In one form or another this type of tuning was used in the "Crystal Junior", "Crystal A", VI, V2, V3, V4 and the "RB10". As far as I can discover, the spade tuning system was designed by C.S. Franklyn, one of Marconi's design engineers who was responsible for many early circuit innovations including his well-known "Retroaction" circuit of 1913. Although in principle the reflex receiver should have a better performance than a straight two-valve (det-LF) set, I have never found this to be the case. In the 1920's the manufacturers claimed that "...by means of a special circuit.. the sounds are magnified to a degree which has hitherto only been possible by using three valves". Well, this claim looks a bit dubious now and I know that some of the early customers were not exactly enthralled with its performance. In normal operation the V2 was intended only for use with headphones and when loudspeaker output was required, the receiver was coupled to an amplifier such as the two-stage A2 which came in a cabinet similar to the V2.

The circuit of the V2 was published in H.M. Dowsett's "Wireless Telephony and Broadcasting" Vol. 2, p. 72 (1923) and in Harmsworth's Wireless Encyclopaedia (1923) Vol. 2, p. 1400. Neither of these circuits included component values, so they are given in this feature.

The V2 which first appeared in 1922 is illustrated on p. 857 of the September issue of Wireless World of that year. Collectors will note the absence of the plug-in Regenerator Unit which provided reaction in subsequent models. It is not known whether the model without Regenerator Unit was ever sold to the public-- only one is known within the Society and we should welcome information on this 1922 model, which bore the GPO registration number 2001. The Regeneration Unit

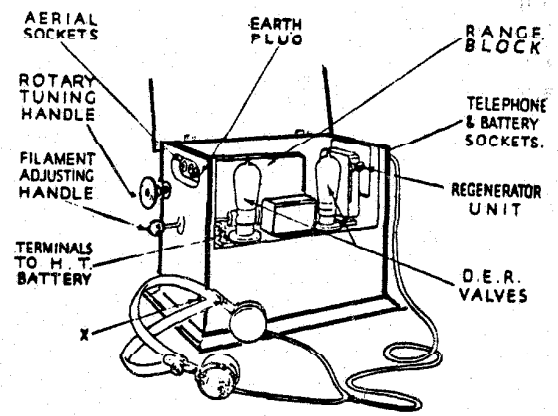
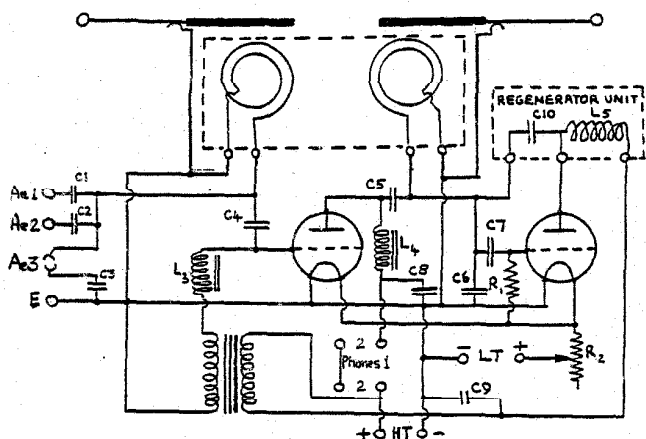
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was added (1922-23) without any other modification in the circuit and the set was still called the V2 and had the same GPO number. In 1923 a new GPO number was obtained for the previous set and it now bore the number 0175. Although it was identical it was sold as the "Long Range Model". The model illustrated in the *Wireless World* had no "BBC" transfer in the lid. The 2001 number indicates that the set was the second two-valve receiver approved for sale to the public by the Post Master General under the then new regulations of the British Broadcasting Company. (The first GPO number was given to a 2-valve GEC "Smoker's cabinet HF-Det.") No evidence has come to light of any difference between the models despite their different numbers, so why did the Post Office issue two numbers? I suspect that the first (2001) was issued to a prototype V2 without Regenerator Unit. A V2 without reaction must have had a pretty poor performance (even poorer than with!) and the addition must have required re-submission for a new number. But, pending the granting of approval on the new version, the number 2001 seems to have been used on some sets with the Regeneration unit! This explanation is tentative and awaits discovery of more factual information. In the advertisements which appeared in 1923 the V2 was described as "Marconi's latest... a new and improved two-valve Marconiphone has been perfected and is now on sale". Advertising of this sort only hints at the truth-it never reveals the facts. The transfers on the inside of the lid usually consist of a BBC stamp, with a GPO number under it and a rectangle bearing the words "Marconiphone V2A" on the top row and the words "Long Range Model" below. On earlier sets the rectangle is much larger and simply bears the words "Marconiphone V2". It seems also that a later version, manufactured in late 1924 or even later, had no registration number on the lid.

Inside the set, at the back and above the range block, there is usually a rectangular ivory plate bearing the words "Marconiphone V2A" and "type RB1B Long Range Model M19.". This plate also bears the instrument-number, different of course for each set. Many of the early V2's were made at the Plessey Company in Ilford, East London- their first order was for 5,000 sets. It seems that the serial number of a set, may, when we have sufficient information, reveal where the set was made. There are two letters preceding the number and these appear to be a coding for the factory of origin (Perhaps "P" for Plessey and "S" for Sterling. Other clues to the factory of origin may be: cabinet moulding having square or rounded corners; transformer cover with sharp or rounded edges; Valve ventilator ports on inside or outside; spade tuning is pull-operated with ball-shaped nickel knob or differential-screw with large flat ebonite knob; hooks secure front upper flap front or nickel ball-head screws. Information on such details is welcome and collation may tell us about the sub-contractors and the dates of manufacture.

The retail price of the set went something like this: 1922- £16.13s.6d. (or £19.4s.6d. complete with valves, headphones and batteries and Royalty paid); 1923- £16.3s.6d. (£19.4s.6d. "complete"); 1926- £10.5s.0d. (or £15.16s.2d. "complete"). The plug-in Range Blocks normally supplied with the V2 were the B621 (300-390 m) and the B622 (390-530m) and the usual Regenerator unit supplied was the B651 covering the range 300-500m. Eleven Range Blocks were available to cover the whole range from 185m to 3200m and there were six different Regenerator Units covering the same range. Other odd range blocks and Regenerator Units which do not appear in the normally available Marconi catalogues are known to exist: e.g. Range Blocks 245 to 305 and 340 to 440m. I have measured the wavelength range of some of the Range Blocks and in each case the stated values are reasonably accurate. The low wavelength figure applies when the tuning spade is pushed right in and the high figure when it is pulled right out. As well as reducing the inductance, the spade shunts the coil with about 30pF when pushed right in. The spades are normally pulled in and out by spherical nickel-plated knobs attached to the end of rods which have notches to serve as markers. There is also a version using a differential screw to move the spades and small pointers running over ivory scales. I do not think these tuning arrangements have any dating significance, but they might well relate to different sub-contractors.

The DER valve (Fil. 1.8v, 0.35a.) was normally recommended for the V2, for which a 2-volt accumulator was the correct LT supply. There was also a dry-battery version for which the DE3 valve (Fil.2.8v, 0.06a.) was recommended and this model had a different filament resistance and apparently some modified battery fixing arrangement inside the cabinet. The correct LT battery for this model was a 4½v dry battery- the set then becoming something of a "portable"- just about the right size for strapping to the running-board of the Bentley ! Using the correct DER valves, the performance is incredibly poor. The tuning is "flat" and the stability of the reaction control leaves a lot to be desired. Selecting valves from a wide spectrum of types enables one to find a "best" pair but the performance remains far worse than any straight two-valve receiver I have ever tried. From the circuit it will be seen that the first valve functions as an HF amplifier, the second as a grid-leak detector, and the LF output from the second valve is then fed back via the transformer and the choke L2 to the first valve. The first valve then comes back into play as an LF amplifier, and the audio signals which are blocked by C5 pass through L1 to the headphones. The HF stage and the Detector are both grid-tuned. The regenerator functions by means of a variable reactance in the Detector anode-circuit, allowing more or less feedback to the Detector grid via C10. As one might expect, the variable reactance in the anode circuit consists of a copper plate moving across a pancake coil- it is really quite difficult to get away from the spade principle in these early Marconi domestic sets. With all its weaknesses, the Marconiphone V2 is of historical significance and, as far as the public were concerned in those far off days this was in no small measure due to the " Magic of Marconi the Mastermind" - the publicity men made sure of that! For the modern collector, endowed with a little hindsight, there may be a lot to smile at in a superior sort of way but, my goodness, he has to have one in his collection !



Component values

- From a Marconi.
- C1 130pF (160)
 - C2 245pF (280)
 - C3 18pF (60)
 - C4 250pF (290)
 - C5 250pF (300)
 - C6 275pF (310)
 - C7 250pF (265)
 - C8 3.00nF(3.95)
 - C9 3.00nF(3.75)
 - C10 -- (45pF)
 - (in 245-530m unit)
 - R1 2MΩ
 - R2 4Ω (5)

Figures in brackets: actual measurements from a sample set .

L.F. Transformer:
Ratio 3-1 over the range 150Hz to 700Hz rises to 3.5:1 at 1KHz.
D.C.resistance:
Prim.550Ω Sec.3000Ω (Between 550-1500Ω on various sets measured)
Valves:
2xDER Fil 1.8v 0.35a. HT 30-50v.A Imp:32000Ω
2xDE3 Fil 2.8v 0.06a. HT 40-80v.A Imp:18500Ω

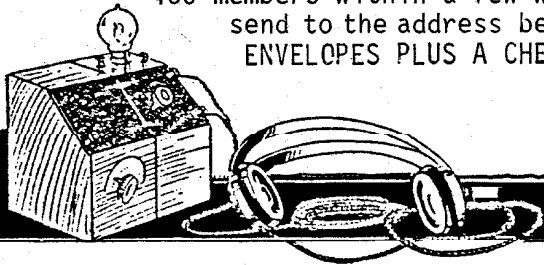
	300-390m	390-530m	1300-1700m
L1	410uH.6.8Ω	640uH.2.2	8500uH.29Ω
L2	130uH.1.1Ω	240uH.5.0	2800uH.7.8Ω
L3	340mH.1.1KΩ		
L4	320mH.1.1KΩ		
L5	960uH without spade,420uH with. 8.3Ω (245-530 unit)		

Aerial
Use Ae1 if aerial is 60-100ft(18-30m)
Use Ae2 if aerial is 25-60ft(7.5-18m)
Use Ae3 if aerial is minus 25ft(7.5m)
Recc.headphones:
Sterling of Marconiphone 2,000Ω

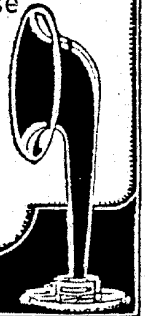
Newsletter

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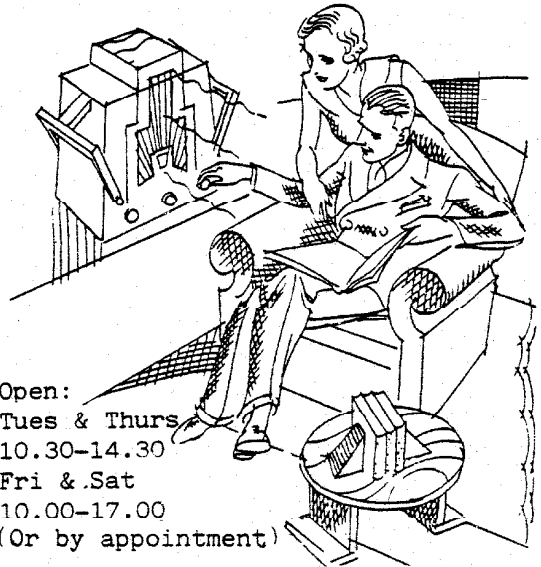
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Tracking down the missing numbers



numbers

by Robert Hawes



Members of the British Vintage Wireless Society who are keen on a bit of detective work are invited to take part in a hunt which could result in the rediscovery of a list of "GPO Registration Numbers" compiled between late 1922 and mid-1924 which disappeared without trace. Some pioneering work in re-compiling the lost list was done in the early days of the BVWS and the preliminary results were published in the Bulletin Volume 1 number 3 by Tony Constable, my predecessor as Editor. Since then, Mike Field, our Equipment Registrar, has been adding to the list, but until a recent plea for help, flow of information to him has been a very slow trickle. Yet the original list has grown encouragingly longer and it is possible to make guesses about its structure/chronology. A study of this list reveals some tantalising puzzles which it is hoped members will help to solve. What, for instance, is the mystery set number 105 which would fill the tantalizing gap in our list of the first ten crystal sets registered? Does someone in the Society actually have that set? We have an excellent list of early sets, totalling 226 so far: but did the original "Hundreds" list go as far as 999, or was the "Thousands" block of numbers (which in the present compilation contains only one crystal set and consists mostly of one-valve receivers) run concurrently with the "Hundreds" list? Does the position in a series of a set always have the same dating significance? Was it common to give "provisional" numbers to sets and then allocate completely new numbers to sets that were virtually identical? Were sets with identical "works" but different cabinets always given the same number (as with the Geophone "Smoker's cabinet" and horizontal panel model)? How many numbers were there altogether? These were just a few of the new questions posed by the addition to our original list of some extra numbers that came to my notice recently: even one new number can overturn a theory or establish a new line of thought. If we succeed in producing a complete re-compilation of those original Postmaster General lists, it will not merely be a dry list of numbers, but a fascinating and informative document.

The GPO list was inaugurated on the formation of the British Broadcasting Company in November 1922. From that date, companies which were members of the BBC were protected for two years against foreign competition by a law which established that all wireless apparatus sold in Britain must be of British manufacture and must be submitted to the Postmaster General for approval. Presumably, equipment was entered on the Official list on being approved and the number allocated to the manufacturer, who was then required to affix to every set of the same type offered for sale a stamp bearing the "BBC" trade mark and the words "Type Approved by Post Master General". But enthusiasts who purchased a "Home Constructor's Licence" at fifteen-shillings (.75p) could make an unlimited number of sets without requiring "approval". As a result of complaints, after 1st. July 1924, the PMG no longer required submission of sets for approval and although the "BBC" badge

continued to be used- probably for its prestige value- the words "Type Approved by the Post Master General" were removed and replaced by the words "Entirely British Manufacture". But it seems probable that the earlier "Type approved" wording continued to be used until the end of 1924- perhaps until manufacturers had used up existing stocks of transfers before making the new "Entirely British Manufacture" ones. This second stamp continued to be used until the end of 1926.

The BBC stamp with "Type Approved" wording also had to be applied on equipment such as valves, headphones, loudspeakers and magnetic amplifiers until 1st July 1924, although PMG numbers were not allocated to such items. For some time after that date, the later stamp with the peripheral words "Entirely British Manufacture" was applied to such items, and it continued to be used in that way - as with sets of various kinds- even after stamping ceased to be obligatory on the dissolution of the old private company and the setting up of the British Broadcasting Corporation on 1st. January, 1927. The continued use of the later stamp - and of a "BBC" badge without any peripheral wording - by the manufacturers who were the former members of the old company was possibly for reasons of prestige. And perhaps they thought it good business sense to fly the British banner at a time of economic depression and high unemployment which had already engendered a "Buy British" campaign aimed at discouraging competition from cheap imports.

Together with this appeal for PMG numbers, I should like to recommend to members our Equipment Register, the purpose of which is to provide an exchange of information between members, helping to establish authenticity of all kinds of equipment, providing circuits and component data, cabinet details, operation advice etc. Members taking part need have no concern over security, for all information is treated in confidence and not revealed without the approval of the owner.

I look forward to being able to publish the unique GPO list as soon as possible, coupled with an announcement that we have an information-bank, perhaps on a vintage computer (a human brain) of impressive comprehensiveness.

LIST OF POST MASTER GENERAL APPROVED WIRELESS APPARATUS NOV. 1922-JULY 1924

THE 'HUNDREDS' SERIES	
The majority of sets with three-digit numbers appear to be crystal sets.	138 MEC Cr.set.
100 Marconi (& Millet) Junior Cr.set.	142 General Radio "The Rex" Cr. set ?
101 Marconi (& Millet) Crystal A set.	145 Met-Vick Cosmos Radiphone Cr. set.
102 Gecophone No.1.Cr.set BC1002.	149 Super Reliaphone No.2. Cr.set ?
103 Gecophone No.2. Cr.set.BC1501	151 Mitchells Elec.Whsls.Co.No.1.Cr.set.
104 Elwell No.11 Cr.set.	153 J.A.Coomes Ltd. Desk receiver.?
106 BTH type C form A Cr. set.	159 Falk Stadelman & Co.Efescaphone No 3. Cr set.
107 Siemens CV ?	167 Gordon Castagnoli Castaphone ?
108 RI table top 5v.	169 Chase Radio Crystal 2. ?
109 RI table top 3v.	171 H.W.Sullivan Cr. set.
110 Assoc Wrts."Little Casket" Cr.set.	176 Gamages Crystal Broadcaster No.1.
112 RI 4v table top No.2. Cr set.	177 Fello-cryst or Hilophone 3v table top ?
113 Burndept Ethophone Junior Cr.set.	181 Brit(i)phone No.4. ?
114 Burndept Ethophone No.1.Cr. set.	183 TMC No.2. Cr set.
118 H.D. Butler No.111.Cr.set.	185 Reliaphone 3v.Table Top No.4
119 Ditto ?	191 Drake and Gorham Cr. set.
122 RI Cr. set ?	195 Reliaphone 3v.Table Top No.4.
124 Wemco Cr.Det Panel (see also 0281 and 2002)	213 F.O.Read 2v. Amp.
126 Bower Electric Co.No.1. Cr.set.	226 Gamages Ideal Cr. set ?
128 Wainwright Manf.Co. Cr. set ?	233 Varoto Ltd Voc.1. Cr.set.
129 Chace Radio VR2D Cr.set ?	236 Wireless Inst. 2v
130 Sterling No.1.Cr set.	237 Reliance Crystal set.
134 Western Electric 44001 Cr. set.	242 Stanhope Iv.
135 T.R.Isted 3v. Simplex.	249 CeeBee Cr. set
136 Fellows 2v set.	255 CA Mk V Cr. set.
	263 Broadway Radio Wks Type A. Cr.set
	270 Bassett-Lowke Oracle. Cr. set.
	277 Reliance Cr. set No.2 ?

280 Ericsson 0/1002 Cr. set.?(see 1002)
 296 Ward and Goldstone 3v
 312 Haynor Cr. Set.
 315 Sonola Cabinet Cr set.Ward,Goldstone.
 323 Ethophone 3. Cr set ?
 332 Chakophone No.3. Cr set.
 345 B'Ham Wls.Co. GledaTlphone Cr. set.
 349 Cable Acc Revophone Cr set.
 350 Jos. Hopley & Sn.Ently Super I. ?
 360 Hayes CA 1 ?
 362 Ward and Goldstone 4v.
 385 Negretti and Zanbra 2v
 391 Ass , Wireless The Scout. ?
 396 Ericsson 0/1004 4v.
 410 Amplifiers Ltd. Cr set Astrophone.
 412 W J. Henderson .BRC I. ?
 419 CT Triumph Cr. set. No.1.
 424 Wireless Eqpt. 5v
 431 Britphone 4A. ?
 433 Ediswan 1923B. Cr. set.
 441 Nat. Wls. and Elec. Co. Gnat Cr set.
 444 Lintophone Cr. set.
 460 H.C. Tolfield Syren . Cr.set.
 485. Sterling Tel. Co.AI.Cr set.(also no.2 ?)
 492 Abhiphone Cr. set.
 516 Edison Bell Cr. set.
 518 Broadway Rad.Wks Junior I ?
 519 Hodgson Ltd.Radiovox III.?
 524 B & S Smith. Super B & S. ?
 548 Broadway Rad Wks. Senior II. ?
 561 TMC No.5. Cr. set.
 564 Gamages Cr. set
 577 AJS 4v sloping panel.
 586 Marconi V3 .
 591 CT Ltd. 1 valve/cr.set .
 598 Auckland Broadcast 3 valve ?
 599 Siemens. ?
 615 Edison Bell. ?
 636 AJS 4v sloping panel.
 668 Lamplugh Regent. ?
 669 Benbow Cr. set(also Revophone?)
 671 Re-Echo Cr. set.
 717 Efescaphone crystal/valve set.
 722 Cosmos HF unit.
 736 Sterling 4v long range set .
 746 OTB'Powder Box'Cr.set.
 753 Fellophone Super 3.
 765 Vertical tube type Cr. set ?
 792 Morch Bros. Cr. set. Rexophone.
 801 Thames Cr. set. ?
 827 Forest Cr. set.
 861 BTH Bijou Cr. set.
 881 Gem Cr. set. Stew and Co
 886 A.G. Foulds Cr. set.

THE "ONE THOUSAND SERIES"

Much apparatus in this series appears to be of the simple 1-valve type of receiver, although technical details are not known in some cases. No. 1002 appears anomalous since it is the only crystal receiver so far listed

in the series. There is evidence that two numbers may have been given to one set, the first "provisional"(1027/1038).
 1002 Ericsson Cr. set
 1007 Hestavox Hestia Eng.Co. Iv ?
 1008 Simplex. HPR Wls. Ltd ?
 1017 Castaphone. G. Castagnoli. ?
 1018 Audiophone. J.R. Wright. ?
 1019 Deskophone Holborn Rad. Co. ?
 1020 Radieco Simplex Iv.
 1022 Chase Radio VRI ?
 1027 Wireless Instlltns Ltd. (Prov. for 1038 ?)
 1033 Manchester Rad.Co. Apollo No.1 . Iv ?
 1034 Ward and Goldstone Iv
 1038 Wireless Installations Iv (see 1027)
 1043 Garage Iv
 1045 Peto Scott Broadcast Baby Iv.
 1055 TMC no 1. Iv.
 1086 CS Durham Iv ?
 1087 Ditto? *Dunham Iv*
 1094 TMC 3v set No.3.
 1107 The Ever Ready. ?
 1108 RI 5v set.
 1111 Sterling type 1526. ?
 1583 McMichael MHBBI Iv.

THE "TWO THOUSAND SERIES"

The majority of sets in this series appear to be 2-valve receivers.

2000 Gecophone BC2001. 2v. HF-Det.
 Smokers Cabinet(See also 5394)
 Also horizontal panel model ?
 2001 Marconi V2 (see also V2a: 0175)
 2003 RI 2v table top
 2005 Hestavox Hestia Eng.Co (II).
 2009 Sonus. Gamages
 2020 Deskophone Holborn Rad. Co.2v
 2022 Gamages 2v sloping panel set.
 2029 Ensign Rad. Co. 2v?
 2033 McMichael MHBB2 ?
 2045 Varato Ltd. Voc II.2v?
 2049 Hestia Eng.Co. Hestavox II ?
 2064 H.E. Ashdown. 2v IIF unit. Amp?
 2069 Apollo type 8.2v.Craies,Stavridi.
 2074 Ward and Goldstone 2v.
 2082 Aristophone 2v.
 2084 Sterling 2v Longrange set.
 2090 Revophone 2v
 2100 RI type V2A. ?
 2103 Ericsson 2v.
 2106 Castaphone G. Castagnoli. ?
 2109 AJS 4 v sloping panel.
 2126 Fellophone Super II. Same as
 Pelmerset 2v and Tonyphone Sup.2.
 2136 W.J. Henderson Co. 2v HR2A.
 2165 C.S.Dunham . ?
 2168 Stanophone. 2v. W.Vanstone.
 2172 BTH 2v VR2.
 2175 D.Vinnell & Son "The Vision" 2v.

- 2181 Sterling type 1588.
 2201 Gecophone type BC2501.
 2202 TMC no 7 2v.
 2217 Western Elec. 44081.
 2285 Gecophone 1v amplifier.

THE "THREE THOUSAND SERIES"

The majority of sets in this series appear to be 2-valve amplifiers but there are also 1-valve amplifiers intended for coupling to crystal-receivers and at least one "Crystal Amplifier" panel (a crystal-set add-on unit).

- 3001 R.I. VIM 1v. amplifier.
 3006 Western Elec. 2v. LS amplifier.
 3015 Audiophone 1v (see also 1018)
 3030 TMC 2 valve set No.2.
 3042 Deskaphone 1v amp. Holborn Radio.
 3044 Ward and Goldstone Crystal amp panel.
 3059 Ward and Goldstone 1v.amp.
 3070 Ashley Wireless type 104 2v.
 3073 Broadway Rad. Wks. 1v. amp.
 3091 Cosmos LF unit.
 3102 Western Elec. 3v amp.
 3104 Marconi NB2 amp.
 3185 Sterling AF 1v amp. type 1533.
 3186 Sterling type 1537 2v.
 3188 Sterling type 1343. 2v.
 3221 CT Ltd. 1 valve amp. ?
 3321 CT Ltd 1 valve amp Triumph
 3359 Forest 1v. amp.
 3360 Gecophone BC2580 amp. (for use with Gecophone GPO Nos. 2000 and 5394).
 3415 Western Elec. 2v Crystal Set amp. (For Cr.Set 4401).
 3423 Western Electric 1v amp.
 3633 Fellowphone Little Giant.
 THE "FOUR THOUSAND" SERIES

This series appears a mixture, mostly crystal sets.

- 4012 The Lintophone Junior Cr.set (see also No 444).
 4031 Empress 3v Model A set.
 4043 Meepon Cr. set. (Made in USA (made in USA in 1923. Why GPO no.?)
 4059 Saxon Cr.set
 4145 Cr. set, make unknown. Built into a pair of headphones.
 4155 Brownie tubular Cr.Set. Open horiz. det type. JWB Wireless (Later tubular models with glass det. are post BBC and have no Nos. Applies also to 2 and 3)
 4385 Ediswan 1924B Cr. set.
 4386 Pye 730.
 4393 Siemens 3v. SB39.
 4542 Aerial Cr. Set.
 4545 Amplex Cr. Set.
 4548 Sterling 2v. Anodion type R1589
 4553 Belling Lee Crystal Set.
 4589 Sterling Thre-Flex set.
 4870 Siemens MIP portable set.

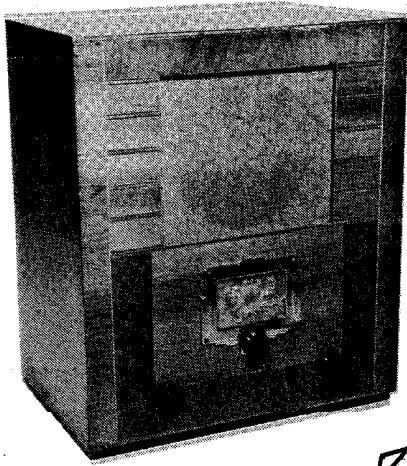
THE "FIVE THOUSAND SERIES"

- 5172 Athol Radio SV2
 5284 Wates Bijouphone CS New Model.
 5318 Western Elec. 44002 7v s-het (import ?)
 5393 Gecophone BC3000 1v amp.
 5394 Gecophone BC3200 Det-LF (for use with Gecophone 3360).
 5464 Gecophone BC3300 (* THIS IS THE HIGHEST GPO no. yet found).

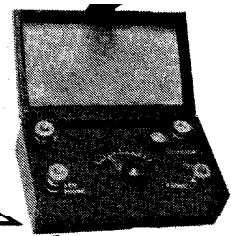
THE "ZERO" SERIES

- 0109 R.I. 3v.
 0112 R.I. 4v
 0113 Hilophone 1v. HPR Wireless Ltd.
 0124 2v Claphon. Ward and Goldstone.
 0135 Simplex. T.H. Isted.
 0138 Joyphone. 2v. Lipowski Co.
 0140 R.I. 7v.
 0142 TMC. 1v plus Crystal Set No.3.
 0143 TMC 2v plus Crystal Set no 4.
 0149 Super Reliaphone No.2 2v. Whist. W. Co.
 0167 R.I. 2v W51 type.
 0175 Marconiphone V2A (See also 2001).
 0177 Hilophone 3v. HPR Wireless Ltd.
 0179 3v type M2 Wireless Equipt Ltd.
 0181 Britphone No.4. Brit. Wireless Spplly.
 0195 Super Reliaphone No.4. Whist. W. Co.
 0222 Cr. Set with 2v amp. Aukland & Son.
 0236 Wireless Instltns 2v.
 0260 Cr. plus 1v. set. Britphone no.2.
 0375 BTH Valve-Crystal set type VC form B twin crystal.
 0385 Negretti & Zambra 2v.
 0425 Wireless Equipt. Ltd. 5v.
 0431 Britphone 4A. Brit Wireless Supply.
 0519 Radiovox III. Hodgson, WI.
 0556 Marconiphone V3.
 0591 Triumph Crystal plus 1v. C.T. Ltd.
 0598 Auktophone Super 3. Auklands, EC1.
 0736 Sterling 4v type 1593.
 0754 TMC 4v set No.4.
 0760 TMC 5v set No.5.
 ADDENDUM (too late for listing)
 1103 Ediswan Radiophone 1v receiver MB100
 1127 Lissenin No.1. 1v set. (Receiver ?)
 249 CeeBee (City Battery Co.) and CeeBee No.3. (Fowler and Brigden) both Cr.Sets. Similar but not identical).
 584 Garrages Cr. Set.
 607 Premierphone A Cr. Set. Lissenin WIs.Co.
 2140 Radiax Super Two 2v receiver (?)
 3336 National 1v LF amp. Forest Radio.
 0457 No.2 2v receiver by Lissenin.
 2008 R.I. 2v. receiver ?
 570 "All on deck" Cr.set. Woodall WIs. Manf. Co.
 0753 Fellowphone Portable 3 Det-2LF. Receiver.
 124 Wenco Cr. Set Panel (see also 2002 and 0281)
 0281 Wenco 1v.amp. (see also 124 and 0281).
 2002 Wenco combined Cr. Set and 1v amp (comprises Cr.set panel (124) and 1v amp (0281).
 3044 Ensign 1v LF amp for Cr-valve set (but also Cr. panel ? Same as Ward & Goldstone Cr-amp panel ?)

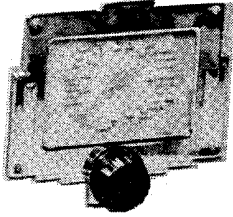
Puzzle corner



THESE "MYSTERY" SETS BELONG TO SEVERAL MEMBERS WHO SEEK INFORMATION ON THEM. IF YOU CAN HELP PLEASE CONTACT THE EDITOR. IF YOU HAVE A PUZZLE: SEND A GOOD SHARP PICTURE

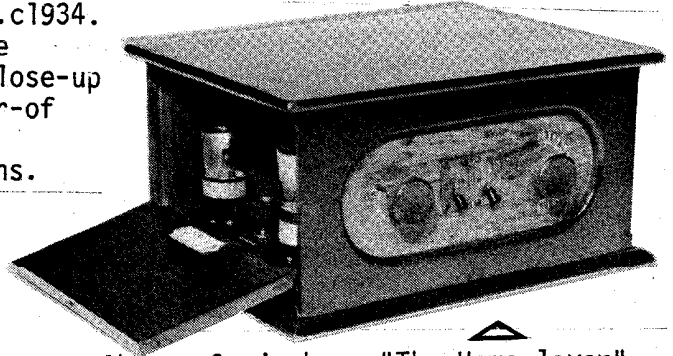


Crystal Set. Nickel fittings on black card panel, silver lettering. Steel catswhisker and galena detector. Coil rectangular, "scraper" tuning. $1\frac{1}{2}$ " x $3\frac{3}{4}$ " x $2\frac{1}{4}$ ". Make? Date?

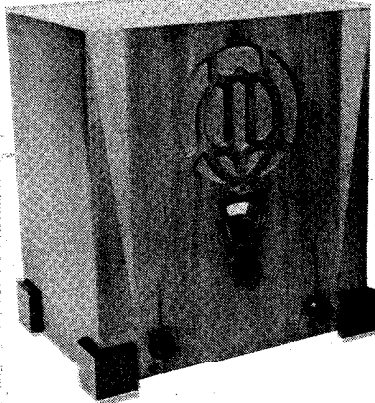


Above: 6-valve set. c1934. 2-band. Walnut case 18 " x 15 " x $10\frac{1}{4}$ ". Left: close-up of simulated mother-of-pearl dial, marked with metres/stations.

Left: A/C-D/C 3-valve + metal rectifier. 2-band, dial marked in metres. Press metal dial-escutcheon. Walnut veneered case $16\frac{1}{2}$ " x 15 " x $10\frac{1}{2}$ ". Make? Model? Date?



Above: Omniaphone "The Homeplayer", 2-valve battery set. Solid mahogany case, flap side. $6\frac{3}{4}$ " x $13\frac{3}{4}$ " x $10\frac{3}{4}$ ". Date? Name of manufacturer?



Right: "Triod Radiophone" Crystal Set. Open catswhisker and galena detector. Mahogany case 5 " x 7 " x $4\frac{1}{2}$ ". BBC stamp but no GPO number. Manufacturer? Has it a registration number?



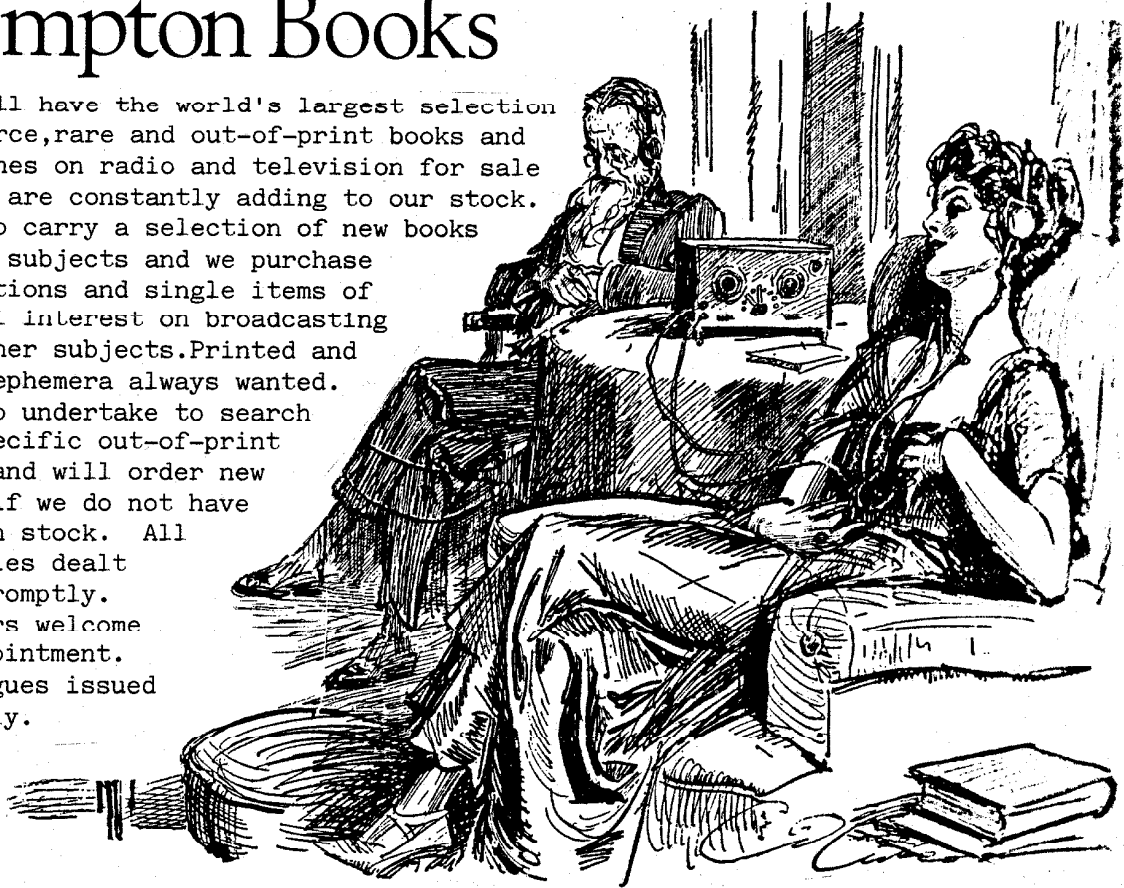
HOW 2 L O's DANCE ITEMS WERE RECEIVED ON THE RIVER.

1923



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ANNUAL GENERAL MEETING AT HARPENDEN 5th JUNE 1983

The Annual meeting and "Swatmeet" of the British Vintage Wireless Society was held at Harpenden Hall, Harpenden, Hertfordshire on 5th June, 1983 and was a great success as usual, thanks to the planning work by the committee and in particular the organisational abilities of Jonathan Hill. The meeting attracted 150 people, 40 of whom took stalls to display items for sale and swapping. Considering the fact that fewer wireless items are being "uneathed" as the years go by, there was a remarkable selection on show from the quite early to the very late vintages. It seems that as the earlier items become rarer, interest is kindled in more modern things- even up to the very first transistor sets which were technically innovative. Business was brisk all day, engendering a great deal of excitement and obvious satisfaction. But Harpenden is not simply a market-place. It is also an only-too-rare opportunity for members to meet and "talk wireless", exchanging information as well as collectable items. The June meeting is also the occasion of the "AGM" and as usual, the accounts were presented (copies are being circulated with this current Bulletin). In a short, formal part of the proceedings, under the chairmanship of David Read, the committee were re-elected for another year. Always an interesting "extra" at Harpenden are the attractions of the display room, which this time included the showing of a video recording of items from Bill Caten's Southend collection. Members are always welcome to bring along items for display. Also in the display-room was a collection of rare Loewe sets which were studied by a small team of members to verify their authenticity. Tony Constable gave a short talk about their discoveries (details of which are featured on the front page of the current Bulletin). Exercises such as this demonstrate how helpful Society members can be to each other in the exchange of vital information. Members are encouraged to contact the committee with a view to repeating the experiment with other wireless apparatus which could be taken to Harpenden for comparative study. Always a most popular feature of our meeting are the excellent refreshment arrangements, organised by Jill Read and her hard-working team. Recruits are always needed for such jobs- and for "admin" tasks too.

* Note: In an unfortunate accident, Tony Constable's Loewe set was damaged at the Harpenden demonstration. If any member has a spare Loewe dial- the ebonite part- he would very much like to have it to effect a repair to the rare set which he so kindly risked taking to the meeting.

* THE DATE OF THE NEXT MEETING AT HARPENDEN WAS FIXED FOR SUNDAY 30th OCTOBER 1983.

May 9, 1923 **Wireless Weekly**

WIRELESS AND THE LAW



Extensive experiments have recently been carried out at Scotland Yard with a view to ascertaining whether wireless telephony would afford a quicker means of inter-communication between stations. The photograph shows the apparatus installed at Scotland Yard.



Although I am a staunch member of the BVWS I am also active in several similar societies in the USA including the California Society who recently had a joint meeting with our Antique Wireless Association. At the swapmeet prices were moderate and there was some buyer resistance to some high-price "quality" sets. There is an increasing interest in 30's things and people seem to be holding on to the novelty and miniature sets which UK members seem to seek. There were also audio-visual presentations with a narrative by BVWS member Bruce Kelley, featuring some huge private collections. One belonging to Dr. Muchow, has 3,000 working sets.

I hope that some BVWS members will find themselves over here on holiday or on business and they they may be able to visit some of our museums, which are scattered all over the country. People might perhaps like to contact with one or more of the following: ARRL-Newington, Conn. 06111; AWA-Bruce Kelley; Holcomb, New York 14469; Ms. Lou Moreau, 305 N. Lanwellyn A venue, Glenolden, Pa. 19036; Chuck Dachis, 4500 Russell, Austin, Texas 78745; Bob Paquette, 107 East Natnl. Avenue, Milwaukee, Wisconsin 53204; Foothill Electronics Museum, Los Altos, Calif.; Alan S. Douglas, Box 225, Pocasset, Mass 02559; Dr. Ralph Muchow, 107 Center St. Illinois 60120; Mr. Hammond, Hammond Manf. Co., 394 Edinburgh Road, Guelph, Ontario, Canada.

I intend to visit London in September and hope to see some of you there before proceeding to my old homestead in bonnie Scotland.

Advertisement. BVWS Member

70 YEARS of RADIO TUBES and VALVES John W. Stokes

This long-awaited book is finally available. It covers the entire history of receiving valves, with the main emphasis being on the 1930s period. Although concerned mainly with American developments there is also information on the products of some other countries.

70 Years of Radio Tubes and Valves has received many flattering reviews and laudatory comments and had the distinction of receiving the Tyne Award for 1982 from the prestigious Antique Wireless Association U.S.A.

- " a fascinating account of the history of valves .." Review, 'Thermionic',
(House magazine, M-O Valve Co Ltd)
- " his thorough account of the subject is interesting and instructional ..."
Review, IEEE Spectrum
- " a sheer delight from cover to cover. Without any reservation I wholeheartedly recommend this excellent book. Review B.R.V.W.S. Bulletin
- " "There is only one word to describe this book - incredible."
Old Timer's Bulletin, A.W.A. USA
- " a most tremendous job ..." a leading American tube historian
- " I have yet to see an electronics history book to approach it ... this book is a 'must' ."
Review, N.Z.V.R.S. Bulletin

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Vestal
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THE American price is \$21.95, plus postage

SEEKING TO TRADE Western Electric HF amp det cabinet of 1924 with chassis of Polar Radiophone junior crystal set. Anders Widell, Tinhögsvagen 60, S-22240 Lund, Sweden. 046 147324.

WANTED: Marconi 561 for spares, so cond. not important, but must include back. Also, for purchase or loan, instruction book for valve tester GEC tube-checker model TC3 and information on adaptor for same, marked type 123 Ref no.10 AD/6 serial no. 355. Ray Holmes, 10, Daddlebrook, Hollinswood, Telford, Shropshire, Tel: Telford(0952)594590.

WANTED: Disc recording machine, blanks, Marx Lumar toy battery gramophone (Page 95 Christopher Proudfoot book), Kidditune and Gale Goldentone records. Allan King, 31, Middle Road, Denham, Uxbridge, Middx. 0895 834358.

WANTED: Sloped-panel type receiver and smokers cabinet receiver, BTH amplifier, Burndept filament rheostat and tuning-condenser. FOR SALE: Bush TV24C and a few post-war radios. David Smith, 50, Hollycroft, Hinckley, Leics.

WANTED: 2-valve amplifier for Gecophone BC2580; details of transfers for Fullers "Sparta" horn speaker; loading-coil for Gecophone; drive unit for Brown H1; small panel mounted neutralising capacitor with lock; info on Pye 250 AC circa 1928; S.G. Brown H2 speaker. Disposal: Belling Lee transformer 250vac output at 10 amps, 6.5v. as new. Ron Jones, 2, Rose Avenue, Alvechurch, Worcs. 021 445 3264.

WANTED: American Scott and McMurdo Silver receivers in any condition. Garrard (78rpm only) record deck as fitted to McMurdo Silver radiograms (models Olympic and Georgic). John Howes, 11 Crendon Park, Southborough, Tunbridge Wells. 0892 40022.

WANTED: All kinds of tubes and valves from earliest to current types, but esp. 1926. Also, data, pictures, information. Bernd Namendorf, Domagkstr 8, 498 Blinde, West Germany. 05223 2952.

WANTED: HMV 531 and 532 radiogram; Pam transistor model 710; and information on EMG radiograms and also R.I. DC mains 3 Madrigal (valve line-up). Gerald Sexton, 46 Chart House, Sadler Close, Mitcham, Surrey. 01 648 0736.

SEARCHING for two intervalve transformers for Brownie two-valve "note magnifier" (amplifier)-even dud ones. Or I would purchase a junky example of the amp for pirating. And can anyone supply a photo or viewing of interior of this item please (all costs gladly paid. Robert Hawes, 63 Manor Road, Tottenham, London, N17.0JH. Tel: (01) 808 2838.

FOR SALE: Philips 470A, Ekco B37, Marconi "Jubilee" Set model 264, Philips "Super-inductance" model 838HU, Ekco TMB 272 9" TV, Invicta 110 12" console Tv. Also for sale or swap for best pre-war TV offer: Marconiphone V2.

WANTED: Rogers Majestic or similar American console or table model, Pye MM knobs, cover for Philips 2514, Marconi or HMV 5" TV. Steve Rowley, 3, Colton Road, Rugeley, Staffs. 088 94 78416.

WANTED: Pye Twin Triple mains or battery, Gordon Bussey, 660 2240

WANTED: Crystal set in the form of a postcard; Popular Wireless Oct. 18, 1924; Pye M78F portable; Marconi Wavemeter; NB2 amp for V2; Brown Crystal amp; Lissen 30 to 50 coil; Wireless subject postcards. Will SWAP for rare items, valves etc. Robert Hawes, 63, Manor Road, Tottenham, London N17. 0JH. Tel: 808 2838. (or CASH)

WANTED: Three Adey self-coupling valves, Gordon Bussey 660 2240.

WANTED: valve index book for Taylor 45A valve tester. D. Hewlett, 23, Grace Rd. Downend, Bristol, Avon. 0272 569897.

WANTED: Dimensions and sketch of position for LW frame aerial for Marconi 5valve portable 55. T. Howells, 93 Wellington Rd. Denton, Newhaven, Sussex. 07912 3597.

FOR SALE: Crosley Radio c1938, large art deco cabinet, American £45. Also loading coils (1st WW ?) coded B11 on 3-pin base (Electrostatic coils on wood board, large quantity) (Ring John on Sandbach 2667 evenings for this item). Reg Dykes, 312 Carterhatch Lane, Enfield Middlesex. 01 363 7494.

ITEMS for the Bulletin are always gratefully received. Please send them to the Editor, 63, Manor Rd. London N17.

WANTED: Geophone no.1 in excellent condition. Your price paid. Allan King, 31 Middle Road, Denham, Uxbridge, Middx. Phone: (0895) 834358.

SELLING Half my collection of early equipment. SAE for list. Steve Sidaway, 32, Cemetery Road, Lye, Stourbridge, West Midlands. Phone: 038483 3366.

WANTED: Sterling reaction unit (medium wave); BTH Reaction unit (Long wave); BTH Amplifier; Burndept filament rheostat; Chassis for Geophone 2000 Smokers -cabinet; Early sloping panel receiver with external valves (I would consider part exchange for this against early Valve and crystal sets.

FOR SALE: Bush TV22; Westminster bakelite and other post war radios. D.J-Smith, 0455 617523/635387.

WANTED: Baird 30 line television- complete or parts: motor, synchro-gear, scanning disc, neon, lens, etc. (All parts once sold separately by Peto Cott Ltd) Genuine enthusiast wishes to demonstrate television of the early thirties. S.G. Casperd, 14, Dagden Road, Shalford Guildford, Surrey. Te: Guildford(0483) 36953.

WANTED: Various parts for the following televisions: Ferguson 941T; HMV 901; Murphy A58V; Philips 383A; Also other early television sets wanted, complete or not. Please send details. Geoff Turner, 111 West Malvern Road, Malvern Worcs.

WANTED: Speaker for 1932 Majestic (Ellswood) speaker type G.10.B ; box for Renshaw crystal set(or just lid)-panel size 6"x7". Also, could anyone please supply me with an accurately dimensioned drawing of a Brownie no.1 crystal set base? Keith Own. 7, Park Av Parkes St. Smethwick, Warley, West Midlands. Or please phone 632 5663 during working hours.

WANTED: Catalogue, or list of sets, or information about the 1946 "Britain can Make it" Exhibition. Does anyone have details of the 25 different radios on show there? Also, does anyone please have a Brownie Tube type crystal-set WITHOUT a BBC stamp? I would like details of its construction. Jonathan Hill, 14, Victoria Court, Kingsbridge Avenue, London, W3. Tel: (01) 993 1306.

WANTED: Zenith Catalogues, service information and sets. Also any accessories. I have various sets (not Zenith) for exchange. Evenings 01 720 5839. A. Gates, 3b St. Philip Square, Battersea, London, SW8.

WANTED: Cosmos valves alive or dead. Also, cover for Cosmos Cruet set. Please write or call, K. Tythacott, 21, Barrett Road, Fetcham, Surrey. Phone Bookham 52569.

WANTED: Station dial for Sobell "Toaster" set. Please ring Gordon Bussey: 660 2240.

WANTED: for Geophone BC201(BC3200) Filament rheostat with knob, plugs for aerial, earth and battery, head phones. Also wanted; base for V24 tube and adaptor for same, or British 4-pin base; tubes R, LS3, and 2xDER nickel-bases. Luetold Felix, Langenhagweg 2, CH4153, Reinach, Switzerland.

WANTED: for Wireless Museum. Old radio books, magazines, catalogues, valves, components, morse-keys, QSL cards, Gamages catalogue, etc. Collection arranged. Details please to hon Curator- Douglas Byrne G3KPO, QTHR, Tel: 0983. 62513.

WANTED: Pip-top nickel-base LS3 valve. Can swap for DER, DE3, B3, 4 6, 7, P2 and other rare valves, Robert Hawes, 63, Manor Road, London, N17. OJH. Or ring (01) 808 2838.

WANTED: Dansette or Westminster record players, non-auto, late fifties/early sixties. Allan King 31, Middle Road, Denham, Uxbridge, Middx. (0895) 834358.

WANTED: Philips radiogram, type 2815; Marconi LF trans for V2 (or box only); old Polar relay (+) 1900, eg Siemens; the following valves: AS494, S4V, MM4V, 41MSG, MS4C, E442. Also wanted: frame aerial for Geophone BC800. Frans Driesens, St. Josefstraat 2, Eijsden, Netherlands. 6245LN.

WANTED: Valve index book for Taylor 45a valve tester. D.E. Hewlett, 23, Grace Road, Downend, Bristol. Tel: 0272 569 897.