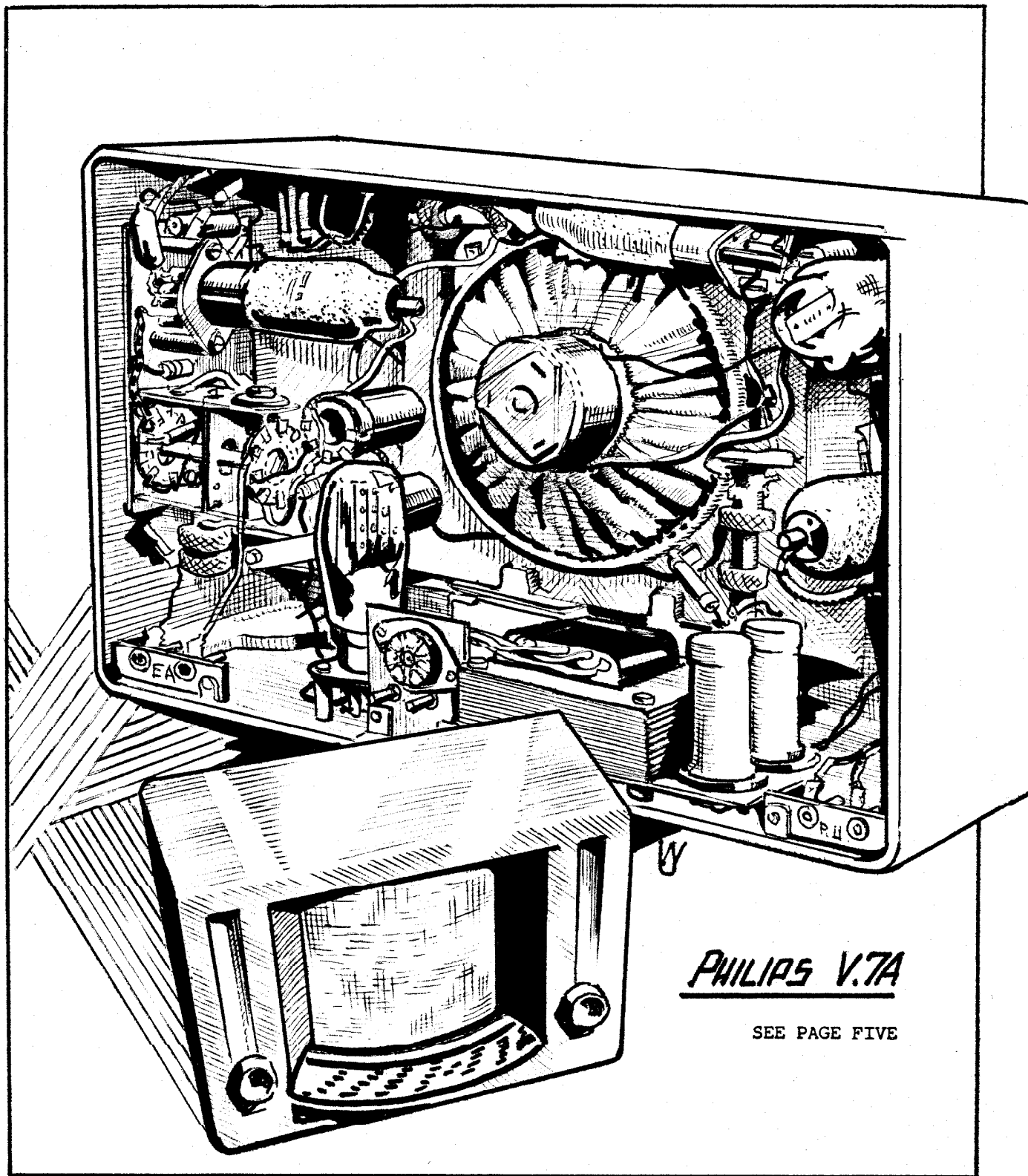


BRITISH VINTAGE WIRELESS SOCIETY

BULLETIN VOL.7. NO.1. JUNE 1982.



PHILIPS V.7A

SEE PAGE FIVE

Information



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North American Representative: Dave Brodie, 315 Cotton St.
Menlo Park, California, USA. 94025.

PLEASE NOTE: The Society administration structure is being reorganised and after 1st September, ALL GENERAL CORRESPONDENCE SHOULD BE SENT TO OUR NEW GENERAL SECRETARIAT ADDRESS, where it will be handled by Geoff and Jan Mitchell. The new General Secretariat will act as a communications, liaison and sorting office, directing enquiries to specific people who are best able to deal with them. Such general correspondence should, after 1st September, be addressed: Geoff and Pat Mitchell, BVWS General Secretariat, Chute Lodge Cottage, Chute Forest, Near Andover, Hampshire, enclosing a stamped, addressed envelope of suitable size. **THIS DOES NOT** apply in the case of communications relating to the Bulletin and the Newsletter, which should go directly to the respective Editors listed above, to avoid delay. The Society is investigating the possibility of setting up informal Regional Groups which will enable more activities to take place - and to make such activities more "local" to members in various parts of the country. If you would like to help to organise small group activities, volunteers would be welcome. It is suggested that there could be groups in the North, South, East and West of England, holding small meetings in members' homes, pubs or other places. If the development seems popular, it may be possible for the Society to set up Regional Branches and to arrange "Swapmeets" in the regions, similar to the regular events now held at Harpenden.

COMMITTEE MEMBERS ARE: Pete Ansell, Ron Austin, Tony Constable, Mike Field, Norman Jackson, Pat and Geoff Mitchell, Roger Rayment, Roger Snelling and the officers listed above.

EQUIPMENT REGISTER DETAILS TO: Mike Field, 116, Tanhouse Lane, Malvern, Worcs. WR14 1LG

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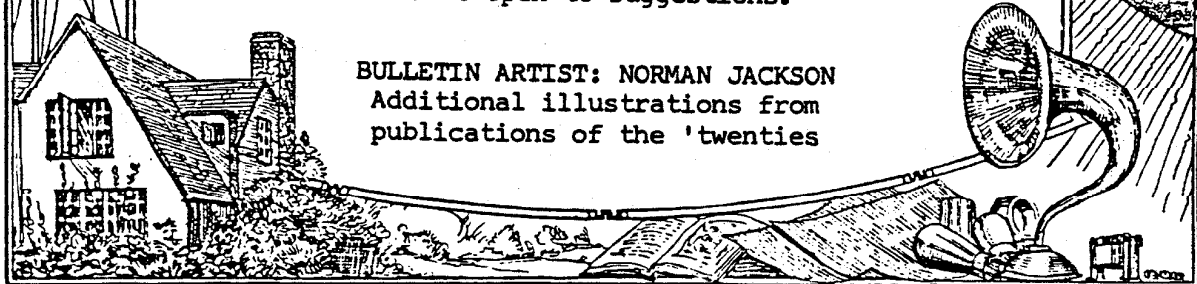
NEWSLETTER AND BULLETIN COPY is welcome, whether news items, features, technical historical, amusing, anecdotal, informative or visually interesting material. The Bulletin is free to UK and Overseas members. The Newsletter circulates only in the UK since it would be of little value to overseas members. All material should carry the name of the author- but the name will not be published if the contributor wishes to remain anonymous. Illustrations are very welcome: they can be line-drawings on white paper, clear photostats, original clean documents, sharp and contrasty black-and-white photographs etc. We are able to copy, re-draw or re-process some kinds of illustrations which are not directly suitable for reproduction. A stamped and addressed envelope would be appreciated where correspondents wish material to be returned. We hope contributors will accept that a certain amount of editing of material may be necessary. If you feel you would like to contribute but are not confident that your work may be immediately suitable for publication, please do not be deterred from sending it in: We shall be glad to "knock it into shape" for you - that's part of the function of an Editor!



A HARD ACT TO FOLLOW

In taking over as Editor, I am keenly aware of the work put in by founder Editor Tony Constable, to whose scholarship his successor, Jon Hill added an extra flair for stylish design. I cannot hope to emulate them; but think that readers would prefer the basic form and content of the Bulletin to stay the way it's been for the past six years. So that will be my policy - but like my mentors I intend to be open to suggestions.

BULLETIN ARTIST: NORMAN JACKSON
Additional illustrations from publications of the 'twenties



APOLOGIES ARE MADE FOR THE LATE PRODUCTION OF THIS BULLETIN: TO BE RECTIFIED BY NEXT ISSUE

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As is the custom, the business part of the Annual Gen. Meeting was kept short to allow plenty of time for a great deal of hectic trading, swapping and much excited chatting. Enthusiasts were not dismayed at the Treasurer's announcement of a modest increase in the subscriptions—the first in five years. Thanks to the Chairman, the official part of the meeting was dispensed with efficiently (the main results are printed in the 'Information' section on the inside of the front cover of this issue). The meeting was organised with customary efficiency by Jonathan Hill and Roger Rayment with some assistance from others – not least of which were the hardworking team of ladies who catered for the appetites of members with the most delicious home-made delicacies. While taking refreshment, we were able to view an interesting display of novelty wireless items in the annexe: a popular exhibition which it would be nice to see more members contributing to. In all, a very successful day – so much so that there is demand for Swapmeets to be held more often—perhaps on a regional basis.

NEW RADIO EXHIBITION OPENS AT THE CHALK PITS MUSEUM

The new Radio Exhibition building at the Chalk Pits Museum, Amberley, near Arundel, West Sussex, was opened in June by 'Practical Wireless' Editor Geoff Arnold. After cutting the tape, he was handed a plaque, screws and screwdriver and invited to put it up (his being a practical magazine). Museum director Ian Dean explained how two school huts had been adapted for the job, and thanked museum-staff and others, and introduced Eric Godsmark, who presented the plaque to Ron Ham and David Rudram in thanks for their support. Thanks were given to those who donated exhibits.

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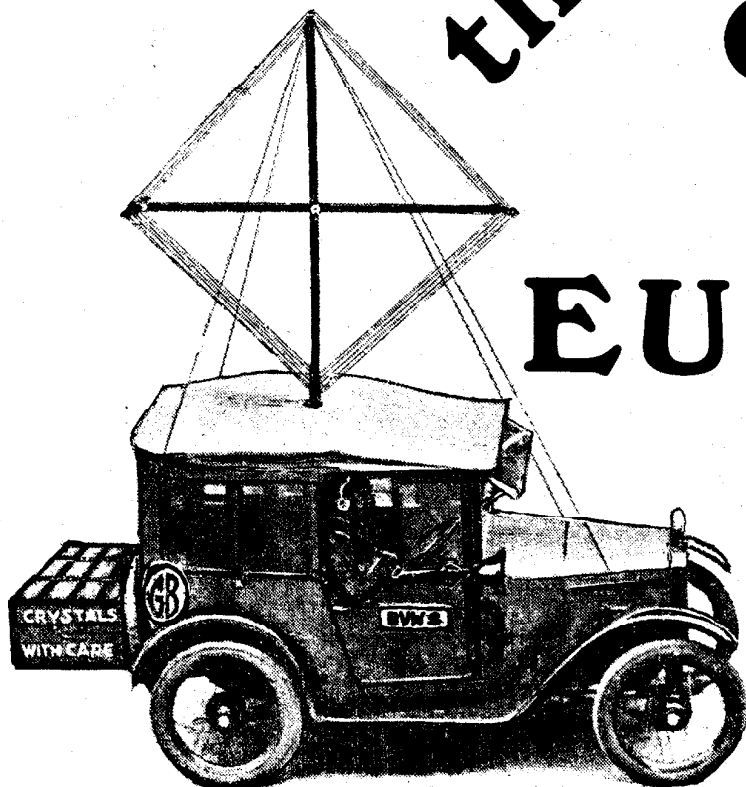
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(GERALD L. WELLS)

The BVWS GOES INTO EUROPE




A short time ago , three BVWS members went into Europe in the Society's new, wireless-equipped limousine and found themselves at the centre of an international network of communications... Well, actually, they took a trip for fun - and at their own expense. Here, the Editor tells what really happened

The British Vintage Wireless Society is now part of a newly-formed association vintage wireless enthusiasts - all of which are remarkably similar in their aims and objects, despite the fact that the separate national organisations grew up completely independently of each other and perhaps were totally unaware of each other. The register of the British Society shows that we have members in many parts of Europe and as far away as Australia and the Far East as well as a good representation in the USA. But a recent visit by members of the British Society to an informal gathering in Holland, showed that "Wirelessitis " has been rapidly spreading throughout the world for at least five years.

Although tentatively formed, the new European association of vintage wireless societies does not yet have a title: that is one of the tasks of the enthusiasts of all the groups represented. Can you think of a universal name for the new organisation which will be equally meaningful in all European Languages ? Perhaps a set of initials which spell a universally acceptable word ? And what should be the functions of the new organisation ? Each of the groups which have come together, representing Great Britain, France, Germany and Holland, are being asked to submit suggestions for future developments. At present, the task is to set up an exchange of information, connecting the groups together more closely and identifying common aims and interests.

Suggestions include the exchange of publications(which is already being done); an international exchange for buying, selling and swapping apparatus and parts; exchange of technical and historical information; international meetings for which a group in one country will act as hosts to visitors from the other groups and will arrange visits to public and private museums and other places which may have a "wireless interest " . Another possibility is the setting up of combined projects.

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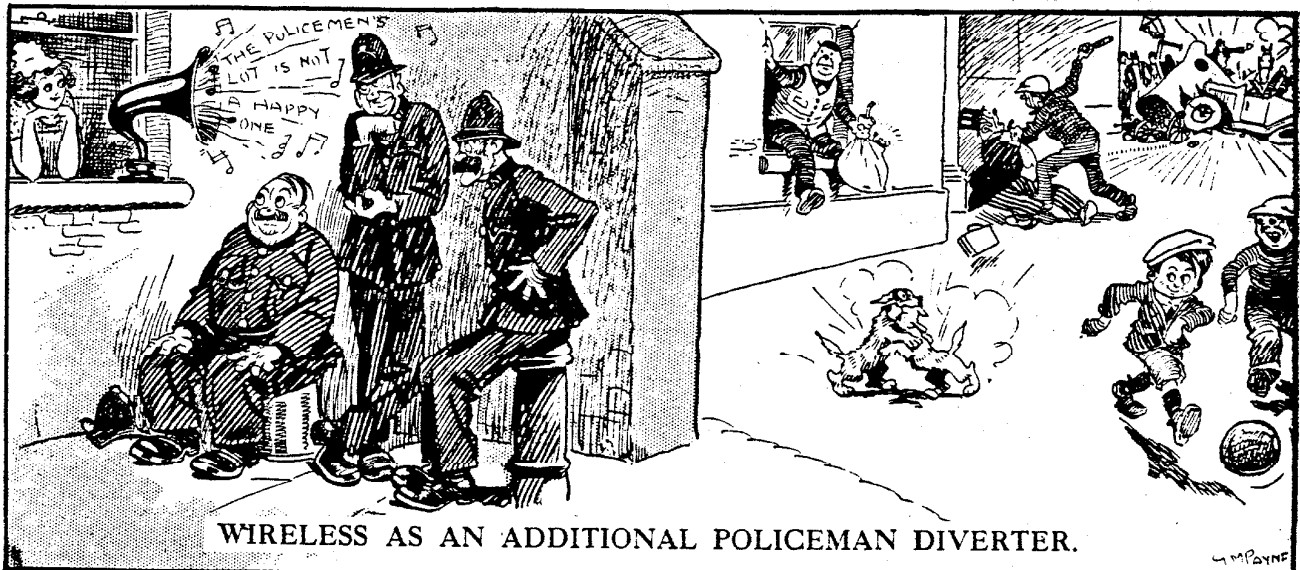
The setting up of the European organisation happened almost by accident. I had decided to attend a "Phonofair" in Holland and noticed that the Dutch vintage wireless society were holding a "Swapmeet". Hurriedly, I invited a few BVWS members to join me on the trip, but in the event, just three of us managed to go: my travelling companions were Jonathan Hill and Pete Ansell, and we took with us the greetings of our chairman David Read.

Marcel Ritmeester, a most respected Dutch collector and technology expert, who has his own long-established Museum in the town of Emmen, not far from Amsterdam, went to great trouble to organise the meeting and some generous hospitality. When we arrived, after a hair-raising drive through what seemed a monsoon, we discovered a conference room had been booked at a fine hotel, complete with lectern, long table and impressive agenda. I noted with some alarm that the other "delegates" had before them typescripts of their speeches, copies of which - in three languages - were circulated. There was no time for me to read what the others were going to say, for after a brief introduction, Marcel put me in as first speaker, adding that an interpreter was on hand. But the credit for the idea of this "Internationale bijeenkomst van verzamelaars historische radios" must go to Marcel. As the Americans put it, I spoke off the top of my head, without the aid of script, microphone nor slug of Scotch. Either by chance or some sort of ESP, I must have said something appropriate, which in translation sounded impressive. What was very astonishing was that the delegates following me gave almost exactly the same speech: I have already detailed the kind of ideas exchanged. My one faux pas was to attempt an interminable joke (interminable because I forgot half way through what the denouement was supposed to be). I hope they assumed that either it was inscrutable British humour, or that there was a language problem; and I much appreciated the burst of polite laughter, engineered by Jon and Pete. After the formal meeting, the excellent meal and a good deal of wine restored my spirits, and since circuits are a fairly universal language, had no further communication problems.

For the record, the other participants were:

France: G. Biraud (Societe historique de la Radio SHR) who attended with his wife and daughter; **Holland:** M.F. Van Donselaar, J.G. Van Dodewaard, E.A. Wessels, Mr. Ritmeester and H. Stormer (Nederlands Vereniging voor de Historie van de Radio, NVHR); **Germany:** R. Walz, F. Pemmerl and his wife (Gesellschaft der Freunde der Geschichte des Funkwesens, GFGF).

During our weekend visit, Marcel showed us round his fascinating Museum, which is full of all kinds of wireless items, gramophones and associated objects. He also showed us his collection at his home, begun by his father in the mid-twenties and housing the most intriguing assortment of technological exhibits I have ever seen. This is a private museum which one can see only by invitation, but he does not keep it to himself - he goes round to schools and colleges, taking his exhibits with him. He is expecting the Amsterdam authorities to provide a central museum soon, which shows how much more regard the Dutch have for vintage technology than does officialdom and commerce in Britain.



UNRAVELLING THE PHILIPS V7A

Simply [?]Years ahead

THE STORY BEHIND OUR FRONT PAGE PICTURE

dateline: Eindhoven 1935.....

by G.V.Dixon-Nuttall

As the heavy door closed behind them, the Chief Electrical designer and the Chief Mechanical Engineer looked at each other, as though appealing for help. They were clearly stunned.

"Well?" said the CMD, "You heard him too. What the Devil do we do now?" . They had just left a meeting with the Managing Director. He was a man who knew nothing about wireless, but cared deeply about profits. After a good lunch he had summoned them to his office and had pronounced: "Gentlemen, we are spending far too much money on press tools. We must cut down on our chassis work. Now, here's an interesting thing, Chaps: a friend of mine has just purchased a Citroen car- and they manage without a chassis. Yes, no chassis at all. Well, gentlemen, for this new, cheap model we are bringing out, we are going to do precisely the same thing: No chassis! Is that understood?" Met with a dead silence, the MD screwed on his trilby, and with the air of a man who had discharged his grapeshot and was setting off hotfoot to his country seat, let off his parting shot: "Well, get on with it chaps!"

The CED, after some thought, said "This is going to be nasty" .

The CMD retorted, with a knowing if cynical smile "If it's nasty enough, we shan't have to do it again" .

And so, they made the V7A. For good measure, they left off the cans on the I.F. and oscillator coils as well, although nothing could persuade the CED to give up his pet band-pass input circuit.


And to add to the complexities, it happened that at that stage in the development of Philips, the dial-cord layouts were being designed by a chap called Gollum, a weird creature with six fingers on each hand, who was kept in a cell. He had a happy time with the 1935 Philips V7A.

And the result of the mind-boggling efforts of the gallant staff at the time, serves as a parable for modern times. When the prototype was shown to the Production Manager, he had to be forcibly restrained from jumping into the nearest canal. And three of the wires went home in tears. The production costs were, of course, enormous: far greater than the cost of the press-tool they had saved.....

WELL, MAYBE IT WENT SOMETHING LIKE THAT.

Certainly, those who nowadays meet the V7A for the first time, and have the courage to peep inside, have difficulty in believing that it is meant to look like that: It seems to have been assembled with a shovel.

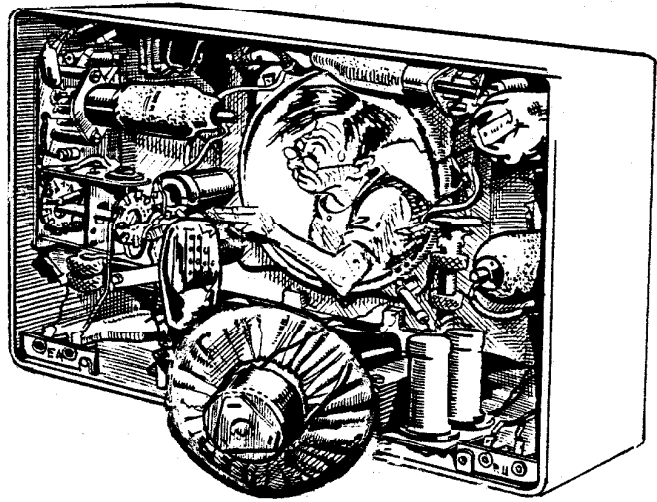
Philips radios have always intrigued me, with their combination of quite advanced circuits, reliable (but un-marked) components, and highly peculiar mechanical design. They also have a justified reputation for being interesting to service.

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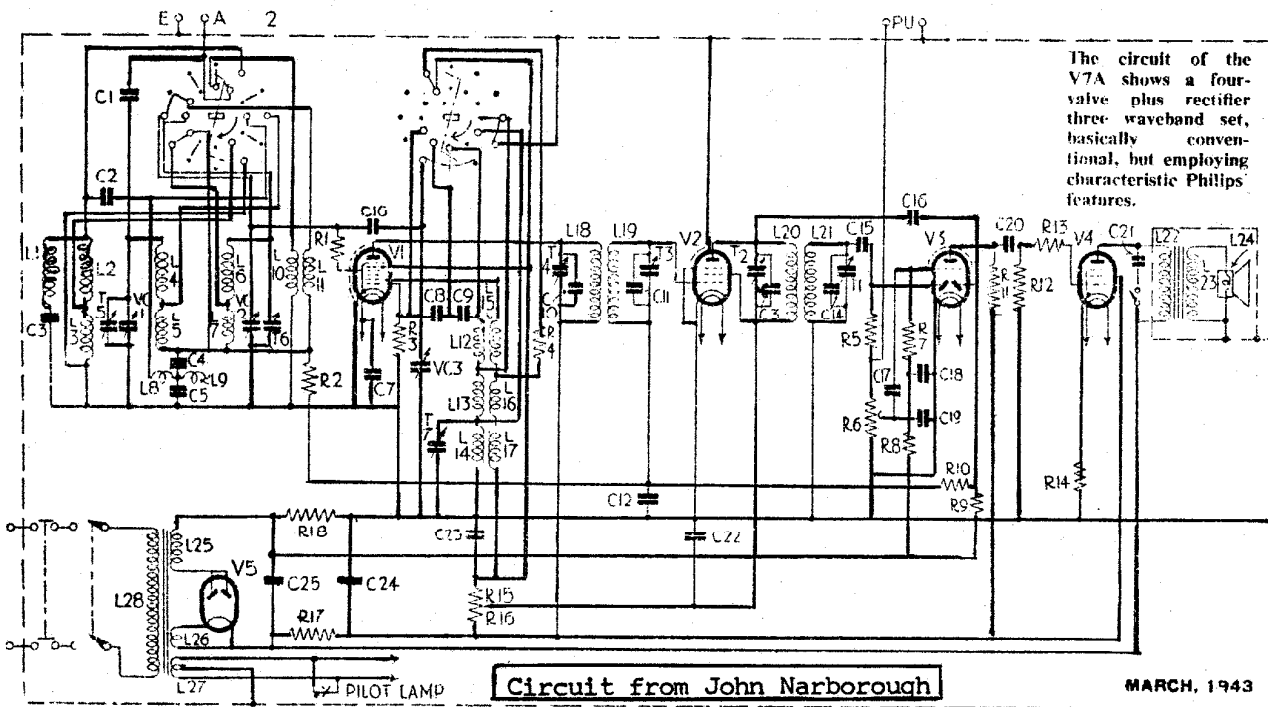
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UNRAVELLING THE PHILIPS V7A

The V7A is certainly inaccessible, as all the components are arranged around the speaker- and either screwed or stuck with pitch, into the bakelite cabinet. Not a pretty sight. After all this time, the usual Philips yellow rubber wire has perished and requires replacement--and there are yards of it. As none of it is screened, the layout is critical. I also had to re-string the dial-cord, which is an operation I would not care to repeat. How they did it in production, I should like to know. I have heard that dropping a V7A has a catastrophic effect, as the whole thing comes unravelled and you end up with a tangle five feet long. So it is 'years ahead' but not 'simply'. After all transistor sets nowadays have abandoned metal structure for plastic.



G.V.Dixon-Nuttall



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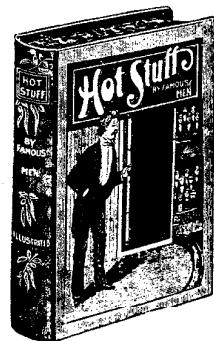
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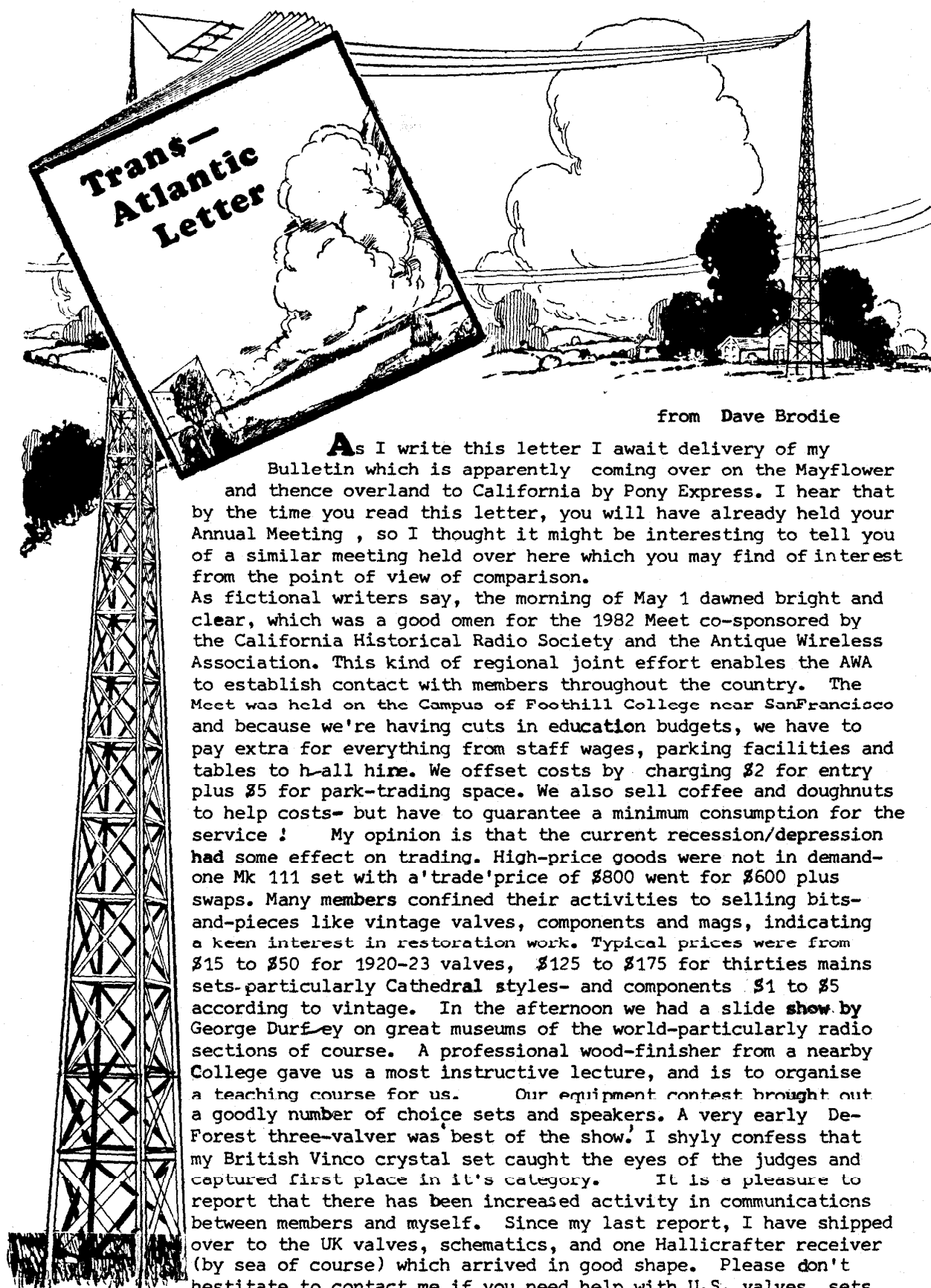
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from Dave Brodie

As I write this letter I await delivery of my Bulletin which is apparently coming over on the Mayflower and thence overland to California by Pony Express. I hear that by the time you read this letter, you will have already held your Annual Meeting, so I thought it might be interesting to tell you of a similar meeting held over here which you may find of interest from the point of view of comparison.

As fictional writers say, the morning of May 1 dawned bright and clear, which was a good omen for the 1982 Meet co-sponsored by the California Historical Radio Society and the Antique Wireless Association. This kind of regional joint effort enables the AWA to establish contact with members throughout the country. The Meet was held on the Campus of Foothill College near San Francisco and because we're having cuts in education budgets, we have to pay extra for everything from staff wages, parking facilities and tables to hall hire. We offset costs by charging \$2 for entry plus \$5 for park-trading space. We also sell coffee and doughnuts to help costs- but have to guarantee a minimum consumption for the service!

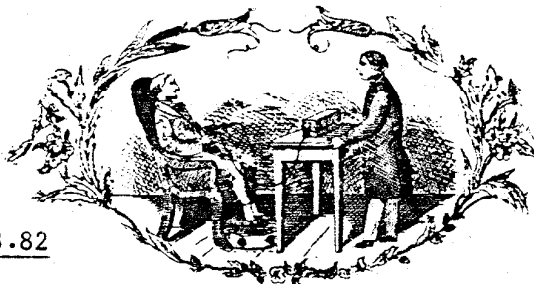
My opinion is that the current recession/depression had some effect on trading. High-price goods were not in demand- one Mk 111 set with a 'trade' price of \$800 went for \$600 plus swaps. Many members confined their activities to selling bits-and-pieces like vintage valves, components and mags, indicating a keen interest in restoration work. Typical prices were from \$15 to \$50 for 1920-23 valves, \$125 to \$175 for thirties mains sets-particularly Cathedral styles- and components \$1 to \$5 according to vintage. In the afternoon we had a slide show by George Durfey on great museums of the world-particularly radio sections of course. A professional wood-finisher from a nearby College gave us a most instructive lecture, and is to organise a teaching course for us. Our equipment contest brought out a goodly number of choice sets and speakers. A very early De-Forest three-valver was best of the show. I shyly confess that my British Vinco crystal set caught the eyes of the judges and captured first place in it's category.

It is a pleasure to report that there has been increased activity in communications between members and myself. Since my last report, I have shipped over to the UK valves, schematics, and one Hallicrafter receiver (by sea of course) which arrived in good shape. Please don't hesitate to contact me if you need help with U.S. valves, sets or components. I will do my best to help. Attendance at our Meet, by the way, was 200, of whom 43 were sellers: a decrease in total-but and increase in sellers-perhaps indicative of our economic problems!

BVWS NEWS:

Our State of Health

TREASURER'S STATEMENT FOR YEAR ENDING 31.3.82



In the past year, expenditure exceeded income by £296.77. A deficit was expected and is explained by the cost of printing and distributing the Slonetric facsimile, plus the last round of postal increases. The figure against postage and stationery has risen by some £260 since 31.3.81 and is mainly due to postal costs. Other expenses have increased relatively little, and we have made a much needed profit of nearly £176 from the Harpenden meetings. About £100 of this was obtained from the sale of valves, so that we continue to be indebted to Mike Lewis for having obtained this redundant stock from Hatfield Polytechnic.

Our deficit on the year was met from our cash reserves, which therefore fell from £805.57 on 31.3.81 to £508.80 on 31.3.82. We might have used this sum to support a £5 annual subscription for another year, but this was thought imprudent and it would have meant abandoning our policy of accumulating cash reserves to finance the reprinting of vintage literature (or for any alternative use that members may propose). Moreover, the accounts show that our income from subscriptions during the year was almost exactly matched by the combined cost of postage, stationery and printing the Bulletin. Consequently, an increase of £1 has been added to all membership fees, which now are £6 for UK members, £6.50 for those elsewhere in Europe and £7 for our extra-continental friends. About 176 members have already renewed their subscriptions and if you are not one of these, the Membership Secretary will be pleased to hear from you!

I E Higginbottom

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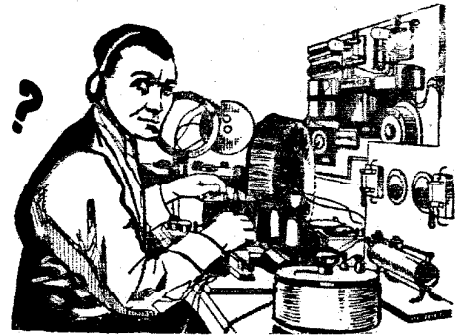
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(BVWS 7/82)

Is anyone listening out there ?

What do you get out of the Society ? And what are you able to put into it ? Is what interests you the quaint technology of vintage sets — the historical or sociological implications of the subject, the aesthetics of cabinet design ? Or are you content simply to be collecting fascinating objects ?




Well , lots of thought-provoking questions there - and you're invited to debate them in the Bulletin. But whatever your interest, you'll possibly agree that we ought to be doing something positive- and something of general interest that will make an important contribution to the sum of knowledge on the subject. Two projects which qualify were started in the early days of the Society, seem to have run out of energy. The first was the beginning of a Register of Equipment owned by members and the second project was to compile a complete list of "GPO Registration numbers". To have a central library of information on equipment would be valuable, since it would be likely to be fairly comprehensive. Anyone wanting to restore a new acquisition would have access to the exact specifications ; and there would be other advantages. Building up the GPO register could be an exciting piece of research, resulting in the compilation of a copy of the original list which seems to have vanished many years ago. It would tell us a great deal about the development of wireless in those early "BBC" -stamp days.

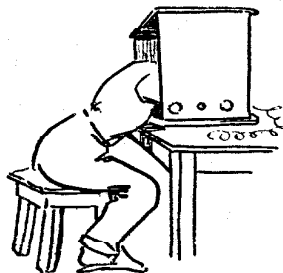
There is already a good deal of exchange of information between members which is of great value . The majority of members seem keen to assist each other in many ways, but some feel they do not have the ability or the time to help. We have heard of some discouraging cases where members seek help but are reluctant to give it; where helpful members receive no acknowledgement after going to immense trouble in research and expense on photocopying and even postage of parts. Luckily these are fairly isolated examples.

Mike Field, who is our Equipment Registrar, writes in the hope that members will help him with the task he took on some time ago. He says " It is encouraging to see that membership has risen to some 280 (this figure is based on a draft list which is undergoing revision -Ed.) - but it is disheartening to see that the number of members contributing to the Equipment List remains static at about 20.

"Societies flourish if members are prepared to contribute to as well as taking from the organisation. 'Contributions' can include writing articles, serving on the committee and making available technical information they possess. I feel that a willingness to assist each other with information and even components, should be an integral part of the Society's purpose. To date, only 20 of our members have troubled to give me details of their collections. It is particularly galling when the odd member writes in for information- no stamped envelope of course- who has not bothered to inform me of his own collection. It appears that only 7% feel it important to help other members- or put more starkly, 93% do not care. There is a natural pride in ownership but if ownership is merely a method of demonstrating "One-Upmanship " the Society may well become moribund. I would like to make a final appeal to members to give me details of their collections if they have not already done so. Absolute confidentiality is guaranteed. If this appeal is not successful I must reluctantly conclude that members are too self-centred and that the Register should be abandoned " .

continued on next page 

JOIN THE NUMBERS GAME !



EDITOR'S NOTE: Strong stuff that ! And sentiments with which many will agree. But to be fair, the subject has not been properly aired for a long time and there may be many reasons for the poor response. Many members may be completely unaware of the existence of the Equipment Register and GPO List project. Others may have large collections and insufficient time to do the listings. Our Chairman David Read feels that members will respond to the GPO List project at least, if reminded about it; particularly since contributors will each receive a valuable "unearthed " document when the list is completed.

WITH THIS BULLETIN COMES A FORM which you are invited to complete. It has been reduced in detail as much as possible so that it may take up the minimum of your time. Please make sure you include your name and address and telephone number although confidentiality will be preserved and nobody but the Registrar will have access to the Register. Details of equipment will be given to applicants only if the owner has given permission ; the usual procedure is that an applicant's request is passed direct to a willing supplier of information for attention. Applicants are expected to pay the reasonable costs of the supplier . Information may be used in a general way in order to build up knowledge of the extent of production of equipment, modifications, variability of circuits, components, cabinets, etc. etc.

You are invited to help in as much of the following as you can :

- (1)Details of your entire collection, or (2) Details of important, rare and unusual items / specialist knowledge, or AT LEAST please (3) The details of equipment you possess which is stamped "BBC. Type Approved by Postmaster General ".

Please include maker's name, set name or maker's number and description of style and material of cabinet . Note that there are two types of BBC stamp:

Autumn 1922
to mid-1924
Sets with this
stamp also
had a GPO no.



From about
the beginning
of 1925 until
about 1927.



If you have specialist
knowledge/facilities/
supplies etc. to offer,
please state. (Directory
to be compiled).

Example: BBC Mark:PMG. no 861 .BTH "Bijou", type C, form B, Maker's no.R25858,
Sep 1923, Walnut Supplied by H.H.B. Sugg Ltd, Angel St. Sheffield.

Please send the form to: Mike Field, 116 Tanhouse Lane, Malvern, Worcs,WR14 1LG.

By the way: If you happen to have borrowed anything from another member and have perhaps forgotten from whom it come, please let the Editor know. Likewise, if a member has lost track of an item. With luck the Editor will be able to restore some orphaned charges. (There's a case of a member who lent a priceless Gecophone reactance-unit to another member for copying. He has mislaid the name of the chap to whom he sent the part. To save him the trouble of searching his papers, perhaps the borrower could put his mind at rest via the Editor ? If the borrower feels embarrassed at keeping the part for so long, he has no need to worry. Or perhaps he has forgotten the name of the lender ! To save blushes, the Editor would be willing to act as intermediary , confidentially).

HELPHZ *£+?spplatt! As youcan see, the eddtr needsa new tripewriter. Doeses anyone know a source of a golf-ball or daisy-wheel lightweight portable "lift-off " self-corrector machine (like ,say, the Olivetti) at "trade " price ? ROBERT HAWES.

Crystal Gazing....



How a crystal detector worked was a total mystery to everybody until the mid-twenties, and to all but a few scientists until about 1940 . It is not surprising then, that a good deal of folklore grew up about the materials themselves and their method of mounting, about the catswhisker and also around the circuits in which detector devices were used. DESMOND THACKERAY in an article he has entitled appropriately if whimsically " Eye of Newt and Toe of Frog " seeks out some sensitive spots in a subject which even today seems somewhat arcane.

We know now the reasons for the great variability in the properties of the myriad semiconducting substances that were the raw material for "crystals": and we can see that this must have contributed towards the conflicting recommendations in the literature of those times. So any list of crystals that purports to offer advice on selection and use must now be taken with a lot of salt, if not outright levity. Today, of course, we are interested in the preservation and possible use (if usable) of materials and artefacts from the past, and also in repair and restoration (even reproduction) using currently available materials. We are lucky in that quite a lot of synthetic galena has survived (perhaps in those much sought after crystal tins): and it would not be difficult to make more. On the other hand, the author knows of no source of synthetic zincite (Arzinite), and this material would be quite difficult to make. Technical grade silicon turns out to be of very low resistivity (perhaps it always was), and therefore useless; but one can now use good quality semiconducting silicon (or germanium) instead, which didn't exist at all in 1925. Tellurium will now be on the poisons list, its toxicity having been established post facto: but tellurium one might be willing to do without. Most of the natural minerals (mainly sulphides) are still available from the Gregory, Bottleys of this world, even if one can no longer pick them up from mine trips during a lakeland holiday. Carborundum is probably now produced in greater quantity than ever before, but as ever yields only a small proportion of really good semiconducting material. Facilities for 'plating' it, in a blob of molten steel, are presumably a thing of the past: but it will withstand the temperature of molten solder, which would destroy most of the other materials.

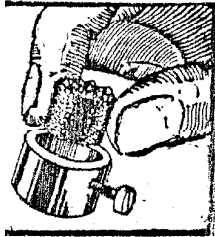
It is normally quite easy to decide from appearance what material one thinks a particular crystal to be: but appearance is certainly deceptive if one cross-checks with an actual analysis (which can, these days, be non-destructive, preservationists will be pleased to hear). Source is another important clue: and electrical measurements likewise, even if performed with that deplorable Japanese multimeter. But the following listing may be helpful, even if not definitive enough to be graven on tablets of stone. Hardness numbers are from Moh's scale.

- SYNTHETIC GALENA: This seems to form a large proportion of proprietary crystals (such as Fry's "Hertzite") and can vary from sparkling microcrystalline grey to sooty black. Used with a fine cat's whisker, it is usually able to provide more "sensitive spots" than
- NATURAL GALENA: Normally this has largish crystals, which cleave easily, into bluish-grey metallic looking cubes. Soft 2½-3.

continued on next page

IRON PYRITES:

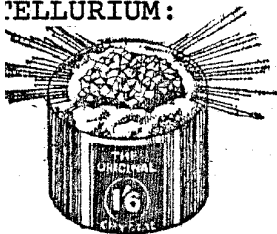
This is very variable in composition, and may sometimes be too low in resistivity to make a satisfactory detector. Hard, 6-6½. Natural surfaces may be brassy yellow, but a fracture surface could be metallic grey with but a faint yellow tint. There is some indication in the literature that exposing a new fracture surface may restore detecting properties to a crystal past its best. Found in some German, or German-style detectors.

SILICON:

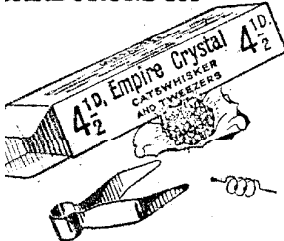
Another material which may be very low in resistivity (though if pure very high indeed). Seems to have retailed in the past under the aegis of Dr. Cecil or labelled "Lucerne", in cardboard boxes. It is grey, with a shiny metallic look, and is very hard. In old samples, an irregular fracture is likely, but a modern, homogeneous sample may well have a glassy, conchoidal fracture. Can be ground and polished, as in Pickard's Wireless Specialty Apparatus Co. detectors.

NATURAL ZINCITE: Very deep red, though very thin flakes are transparent.

It seems to have only a single plane of easy cleavage. Used sometimes in two-crystal "Perikons", the counter-crystal being bornite, or chalcopyrite of quite low resistivity. Hard, 4½-5.

SYNTHETIC ZINCITE: This was sold as "Arzinite", though its source seems to be unknown. Somewhat resembles milky quartz but can be pale yellow or honey colored, and breaks irregularly. Fairly hard. Found in the "Red Diamond", mounted on the moving plunger.**TELLURIUM:**

Like so many semiconductors, is metallic grey and brittle but this is sometimes microcrystalline in fracture. Seems to conduct too well to act as a detector itself, but appears as the fixed counter-electrode at the rear of a "Red Diamond". Since it is poisonous, don't blow the dust away from inside a Red Diamond or rub it into a cut finger, please.

BORNITE, CHALCOPYRITE: Large intact samples look just like the mineralogical books tell it, but this is little guide to that grotty fragment of discoloured counter-crystal in your perikon. Its main function was probably simply to conduct electricity, and to crumble away rather more easily to a suitable contact area than the zincite pressed against it. Bornite (dark, iridescent) soft, 3: Chalcopyrite (yellow) 3½-4**CARBORUNDUM:**

This is extremely hard, 9½, crystalline, lustrous and in colour black, grey, green, blue, or anything between. Pale green transparent is fairly pure, graphitic black very impure: and resistivity ranges from very high to very low, so a sort through bulk material is advisable. Good detector material, mounted in fusible alloy and pressed hard against a steel counter-electrode, will read less than 1000 ohms in one direction and greater than 100,000 ohms in the other when tested with an ohmmeter. Irregular fracture.

Note: Illustrations do not refer to descriptions alongside them, but are merely examples of some of the dozens of branded items available in the mid twenties.



EDITOR'S POSTBAG

MORE ABOUT THE MATCHBOX CRYSTAL SET

I was the proud possessor of one of those commercially-produced Matchbox-Crystal Sets, in 1924.

Speaking entirely from memory, I think I paid two shillings (10p) for it.

The set was advertised on the sides of London General Omnibuses, and I believe was manufactured by a firm called Laycock Engineering who had workshops somewhere in North London.

Regrettably, I cannot vouch for any of this, but I think I am right.

The set worked O.K. It could hardly fail to do so: I lived in Barnet then- and I had a hundred feet of 7/22 copper aerial, thirty feet high -- and, of course, 2LO was only ten miles away!

Frank

Frank Brittain,
11, The Fairway
Southgate, N14 4PA
Tel: (01)440 3001.

AND YET MORE- WITH CHIPS !

I was interested to read your article about the Matchbox Crystal Set, and did not know the set was produced and sold commercially.

It would be interesting to know why the original provisional patent was granted, since both the circuit and the tuning system employed appear to be very similar to some already in use during the period concerned. (That is possibly why the set was never fully patented! -ED).

You may be interested to know that, as a boy, I lived in Clapton, London, E5., and that during the period 1924-1927 I made many crystal-sets housed in matchboxes. No originality is claimed for the idea of using a matchbox, as my first model was copied from just such a set, lent to me by a local experimenter whose name was Sadler. His set was home-constructed and had conventional terminals at each end; "pillar" tupe for aerial and earth but "telephone" type for head-phone connections. As I remember, fixed tuning was employed, a small solenoid being wound to resonate at the wavelength used by 2LO.

Using a single wire "L" type aerial, approximately 70 feet long and at a height of twenty feet, and with the earth wire connected to the incoming water-main, the signal was equal to that received on several normal-sized sets I had - all of which employed different tuning systems from that of the Matchbox set.



After constructing a similar set to that lent to me, I went on the experiment with various home-made coils and tuning systems. No improvement in the signal strength resulted, but variable tuning enabled me to receive local amateur broadcasters in addition to 2LO- which began using a new transmitter and an aerial on the roof of Selfridges in Oxford Street, London, on 6th April, 1925.

A "chip", broken from the crystal in a normal-sized set provided the detecting mineral for the Matchbox Set. (The brand I used was sold in a glass tube and under the name of "Tunstalite" at a price of 1s6d.- seven-and-a-half new pence- and was I believe Galena).

These cheap matchbox crystal sets provided me, at the age of eleven, with much pleasure and knowledge, leading to many years of home construction and experimentation with all kind of wireless apparatus, which has continued to the present day.

If I can provide any information on any other of these novelty crystal sets I should be pleased to do so.

J.P. Downes

John P. Downes,
(Member of the Radio
Society of G.B.)
10, Leslie Road
Winton, Bournemouth,
BH9 2JH Dorset.

MARKET PLACE

WANTED: Postcards on wireless subjects. Jonathan Hill, 14 Victoria Court, Kingsbridge Avenue, London, W3 9AH Tel: (01) 993 1306.

HELP WANTED: Would any reader who has a Burndept Ethophone Duplex receiver kindly help me by sketching the component and wiring layout beneath the set? I am at present rewiring it. Also WANTED: Burndept tuning condenser and knob for same. David Smith, 50, Hollycroft, Hinkley, Leics. LE10 0HG.

WANTED: Two valve amplifier for Marconi V2; Single-valve receiver with crystal detector; Marconi crystal receivers ("A" and/or Junior). Dave Brodie, 315, Cotton Street, Menlo Park, California, USA. 94025. Tel: 415-323-0353.

WANTED: Schematic and other information on WW2 VHF receiver R 1132A. Also Wavemeter class D no.2. A.R. Williams, 26, Centre Street, Invercargill, New Zealand. Tel: IN 68985.

WANTED: for Mullard "High Speed" valve-tester, (test card type), operating manual and particularly the chart or table that converts valve type numbers to test card code numbers. Also wanted: instruction manual for Marconi standard Signal Generator type TF 144G. Would be prepared to buy or to pay for photocopies, post etc. John R. Sully, 79, Hatfield Road, Potters Bar, Herts, EN6 1HZ. Tel: (0707)-55991.

WANTED: Variometer, loading coil and plugs for Geophone no.1 crystal set, model A crystal). Also copy of book "A history of the Marconi company" by W.J. Baker. (My uncle is mentioned in it!). S.G. Casperd, 14 Daqden Road, Shalford, Guildford, Surrey, GU4 8DD. Tel: (0483)-36953. ALSO WANTED: Panel and bits to complete BTH crystal set model A (double crystal); Lid and copy of its information doe WW1 Mk 3 tuner, also perikon crystal for same; old parchment paper to make up new double cone for Edison Bell loudspeaker of 1926/7.

WANTED: Parts and information for World War 2 "Hitlers Peoples set". Write or call: Philip Elwood, 37, Cliff Avenue, Nettleham, Lincoln, LN2 2PU (0522.751-323.

GERMAN RADIOS. A number for exchange only. Including 3 ABC sets dated 24-29; 1 Erres (1929); 1 Berliner (1929); 1 Korting (1933); 2 Loewe (1926 and 1929); 1 Lumefoon (1930); 1 Nora (1930); 1 NSF (1927); 16 Philips (1927 to 1935); 1 Seibt (1926); 4 Siemens (1928 to 1930) and 6 Telefunken (1927 to 1933). M.P. Ritmeester, Nieuw-Amster damstestraat 34, Emmen, Netherlands. Tel: 05910-13721. (Editor Bob Hawes has some details).

WANTED: Wireless World "Single Span" receiver (c.1934). Any condition. Battery or mains. With or without cabinet. D.C. Turner, 3 Seckville Way, West Dargholt, Colchester, C0.6 3DZ.

WANTED: "Confucious" speaker; Philips "Cathedral" 930 (1931) Post-card crystal-set; DER valves; V2 transformer/ range-blocks/coils; "Fleg" and "Britannia" cells; wireless post cards and novelties; Fotos valves for KB kitten. Buy or swap for rare valves, books, spares and other goodies. Bob Hawes, 63 Manor Road, Tottenham, London N.17. OJH. Tel: 808.2838. Does anyone want to swap a Geophone "Smokers' cabinet" reactance coupled model (even one missing reactance unit), for my good complete transformer coupled model?

WANTED: Original manual for Hallicrafters 5276 VHF receiver; Any information on Hunts CR Bridge CR83; Valves MOV, PT2K, GU1, BUY OR SWAP from large range of new valves. Also wanted: Commercial receivers using plug-in, miniature Hivac valves. Philip Taylor, 14 Willow Walk, Canewdon, Rochford, Essex. SS4 3QH.

WANTED: McMichael Radios and literature etc. Also MH components. Please contact David Cochrane, 9 Faulkner Place, Bagshot, Surrey. Tel: Bagshot 74426.



FREE ADS: Any members may submit a free ad for sales or wants. Members who are dealers, or others who would like to have larger advertisements are welcome to apply to the Editor for space and he will advise about the nominal rates, which help to defray costs of printing and distribution. No responsibility can be taken by the society for errors or omissions, and transactions must be entirely the responsibilities of buyers and sellers. Descriptions given are those provided by the advertiser, and the Society cannot give any guarantee in respect of them.

WANTED: Calibration chart cards (or photocopies) for inside of hinged doors of Selector cabinet portable pat no 277116 (1929). Approx 7x8 cm. Bob Hawes, 63, Manor Road, Tottenham, London N.17. OJH. Tel: (01)-808.2838.

WANTED: Parts to complete Cleartron 1926 set having "Lodge N" circuit. Variable condenser with bakelite end plates and 3-hole fixing; vertically-mounted var. grid leak; Marconi "Ideal" transformer (LF) or "Silvertown". Ken Chorley, 7 Fox Field, Everton, Lymington, Hants. Tel: Milford-on-Sea 5231.

WANTED: Any French or Dutch or German Philips RX-similar to German Philips Aachen Super D57AU. Preferably RF staged. (My choice of outstanding design, technically and aesthetically; monoknob, ideal, sophistication). Alternatively, Continental Grundig, Saba, etc. Only one wanted, with RF tuned stage of both AM-SW/FM-VHF, white piano-keyed, press-button wavechange only- not press-button station change (too easy). Barry Moss, 16, Burke Avenue, Berala, Sydney, NSW, Australia.

WANTED: Echo car radio for 1950/2 Consul or Zephyr Mk1. Model no CR117F. 5-valve superhet, with M and L press-buttons and three station-tune press-buttons. Separate tuner unit in cream with green knobs plus power pack. The tuner is rectangular, whereas radios for Consuls 53/6 have curved edges and are no good for earlier models. Colin Hopper, 15, Cedars Avenue, Rickmansworth, Herts. (Bob Hawes has more details. Set can be working or not.)

WANTED: Subscriptions for 1982: Have you paid yours? This Bulletin is sent whether you are fully paid up or not. If you have neglected to renew, no further Bulletins may be sent. Your prompt attention to this would be much appreciated. Please send your subscription and renewal form, together with 4 self-address labels to Secretariat.

DO YOU HAVE any ideas for inclusion in the Bulletin?

BVWS MARKET PLACE

WANTED: "Experimental Wireless " Vol 1- nos.8,9,10; Vol 4 no.48; Vol 8, nos.91 and 97. Tony Constable, 18 Ravenbourne Gardens, Ealing, London, W13. Tel: (01)997 7564.

WANTED: "Experimental Wireless" Vol 1, nos.8,9,10; Vol 4, no.48; Vol 8, nos.91 and 97. Tony Constable, 18 Ravensbourne Gardens, Ealing, London, W.13. Tel: (01)997 7564.

SERVICE SHEETS: and manuals: Photocopies of material (donated to 5he Wireless Museum at Ryde, Isle of Wight) available by post from Douglas Byrne, 34 Pellhurst Road, Ryde, Isle of Wight, PO33 3BW. Send SAE with enquiry, please. Small fee to cover cost.

WANTED: Original manual for Hallicrafters 527C VHF receiver; Any information on Hunts CR Bridge CRB3; Valves MOV, PTK, GU1. Buy or swap from large range of new valves. Also wanted: commercial receivers using plug-in miniature Nivec valves. Phillip Taylor, 14, Willow Walk, Canewdon, Rochford, Essex, 554 3QM.

WANTED: V2 block coil. G.C. Munton, Willoughby House, 31 Church Street, Derby, Lincs.

OFFERS ? Sound Sales radiogram plus additional cabinet loudspeaker. 4'x3'x2'. Must dispose to provide storage space. F.C. Ward, 5, Uplands Avenue, Littelover, Derby, DE3 7GE.

FOR SALE OR SWAP: " Matchbox " crystal set, circa 1923. Mint condition. Gordon Bussey, 64 Pampisford Road, Purley, Surrey. Tel: (01)660.2240

FOR SALE: Cossor set. No model no. visible. Seller is acquaintance of member and says set "needs tuning". Mrs. McArthur, "Lindenhurst", Mottingham Lane, Mottingham, SE9. 4RJ.

WANTED: Echo " Princess " (c. 1948), personal portable valve radio, in eau-de-nil plastic case. Gordon Bussey, 64 Pampisford R ad, Purley, Surrey. Tel: (01)-660 2240.

WANTED: 1916 "White valve "; Mk3 aircraft Tuner; Gamages catalogue. Douglas Byrne, 34 Pellhurst Road, Ryde, Isle-Wight. Tel: Ryde 62513.

SERVICE SHEETS: Photocopies of "Trader " sheets 50p plus post. Most models from about 1930 to 1950. Send model no. John Narborough, 36 Terminus Avenue, Bexhill-on-sea, East Sussex. TN39 3LZ.

WANTED: Working instructions, circuit and valve data book for Avo Mk 2V Valve Characteristic meter Bob Hawes, 63, Manor Road, Tottenham, London N.17. OJH. Tel 808.2838.

SERVICE SHEETS AND MANUALS: Receivers from pre-war to mid-sixties, including TV and tape recorders. Small charge for photocopies plus postage. Douglas Byrne, 34 Pellhurst Road, Ryde, Isle of Wight, PO33 3BW. Tel:

WANTED Schematic for Canadian Rogers-Majestic (Toronto) console radio, model Ten 12/20c...c.1935/8. (The "Big One" . Weight 168 lbs. 18 watts output). C.A.G. Herbert 31B Porchester Road, Newbury, RG14 7QH. Tel: 063583.2034.

WANTED: Pair of old Brown type "A" headphones. Also crystal sets. Geoff Barnes (G3AOS), 5, Prospect Drive, Hale Barnes, Altrincham, Cheshire, WA15.8TU. Tel: 061.980 -2415.

WANTED: British crystal set for my collection. Will trade Canadian or American set for same. Must be in good condition. Aaron D. Solomon (VE10C), 8, Crichton Park Road, Dartmouth, Nova Scotia, Canada, B3A 2NH. Tel: (902)-466.5188.

IMPORTANT ! Have you renewed your subscription ? If not, this will probably be the last Bulletin you will receive, and is sent with compliments in the expectation that you would like to renew. Please note the new increased membership fees if you do decide to renew, and make sure to send a form plus a set of four sticky labels for posting your quarterly Bulletins. If you have already renewed but have forgotten to send the labels please do so- these are the only indication to us that you are due to be sent the Bulletin. We should be grateful too, if you would be kind enough to check the current membership list to see if your own particulars are correct, and those of any other member you may know. A revise list will be sent out as soon as the corrections are all to hand.

EXTRA ADS

These free ads have been given to non-members who wrote to the Society following an article in the "Sunday Telegraph " about the Vintage Wireless Museum at Dulwich, run by member Gerald Wells. The Society was mentioned by the reporter, and Bob Hawes received over 70 letters from people whose interest was aroused. Enquiries were various. Some wanted details of the Society, others sought information on their own sets or sought repair facilities and spares. The vast majority sought valuations with a view to selling items- or simply because they wanted to know the price (rather than the value) of things. Bob gave information where possible but pointed out that the Society cannot give valuations. Some items were offered for sale and it was pointed out that the Society had no finance nor mandate for such purposes but information could be passed to individual members who may be interested. The distinction between the Society itself and The Vintage Wireless Museum was made clear. No wireless material of any real antiquity, interest or value was unearthed. But it was felt that offers should be published to allow members wishing to follow them up to do so- as individuals rather than representatives of the Society. We are sure that members will deal with correspondents with tact fairness and discretion. All descriptions given are those of the correspondents and the Society takes no responsibility for them.

VALVES, SPARES, WANTED- DORSET : Is there a radio engineer near me ? I have an Ecko 1947 radiogram which needs attention. R. Randall, 50 Milton Abbas, Blandford Forum, Dorset, DT11 0BP.

TWO PRE-WAR SETS, wood cases, one working, for sale. Mrs. J. Terry, 17, The Grove, Bearstead, Maidstone, Kent. ME14 4JB. Tel: Maidstone 37066.

WIRELESS, MADE FOR YACHT IN FORTIES, for sale. Not working. Mrs. K. MacDonald, 43 Fellows Road, London NW3. Tel: 722 1093.


SOUND EQUIPMENT FOR SALE: EMG corner horn (facing) loudspeaker (wood horn in box, coupled to moving-coil 12" Tannoy speakers); LEAK T12 amplifier and POINT-ONE preamplifier; DYNATRON FM TUNER and P1; GARRARD 301 TURNTABLE. J. Smyth, Loxwood, Otlands Chase, Weybridge, KT13 9SA.

GRUNDIG MARLBOROUGH RADIO, type 3028/3D for sale. 25 years old. Working. Mrs. N. Barr, 96 Bullsmoor Lane, Enfield. EN3 6TL. Tel: Lee Valley 763 480.

DYNATRON RADIOGRAM model T69a for sale. Cost £199 when purchased in 1947. Working. Almost immaculate and with spare valve. R. Stewart, Woodlands, Murchington, Chagford, Devon. Also 150 quality 78 records.

MURPHY AC. Brown bakelite case. Any value ? Write A.H. Sheffield, 45 Lower Road, Stoke Mandeville, Aylesbury, Bucks.

PLEASE NOTE: Len Kelly of Bampton Books, 23, Newport Street, Tiverton, Devon, EX16 6NL. Tel (08842 57412) is moving his large stock of books on broadcasting to his home at "Franklyn", Devmans Hill, Tiverton, EX16 4LL. where he will be carrying on business as usual. He will be pleased to hear from members. His telephone number is (0882)256170.

more 'extra ads' on next page 

EXTRA ADS

HMV RADIO for sale. Pale green bakelite. Working.
Mrs. M. Allen, 335 Penn Road, Wolverhampton, WV4 5QF.
Tel: 338892.

GEC AC 38 Radio for sale. Excellent condition. Bakelite.
Walter Jennings, 94 Stratford Place, Warwick, CV34.6BG.

PILOT "Little Maestra" RADIO, for sale. About 1937.
Mains. Thought to be plywood, finished in brown gloss
marbling. Rear Admiral R. Fisher, Croosecraig, By Torbert,
Argyll.

HMV RADIO with EXTENSION SPEAKER for sale. Late 1940's.
Good condition, working order. T. Gilbert, Heather View
74 Lake Road, Verwood, Wimbourne, BH21 6BX.
Tel: Verwood 82 4175.

MURPHY TYPE AC :38C RADIO for sale. Working OK when
consigned to garage. J. Davies, 43 Collingwood Road,
Horsham, West Sussex RM12 2QN. Tel: Horsham 55039.

COSSOR "Melody Maker" for sale. Wooden cabinet. Bought
1951. Working. S. Merrony, 87 Fox Road, Whipton, Exeter.
Devon. EX4 8NB. Tel Exeter 67580.

PRINTED MATTER For sale: Magnet auto record-changer
leaflet(1923); Lucas "Bulb testing lamp demo sheet";
"Coil ignition equipment"; "Routine testing of
Lucas LF horns"; RGD Instruction charts for models
353, 296, 196, 168; Practical Wireless date sheets 1-19
(1932); Several 1946 Practical Wireless magazines; a
number of old valves—wartime etc. plus early TV tube.
Any interest? Mr. A. Shor t, 18 Earls Croft, Coventry,
CV3 5GS.

MARCONIPHONE (1926 ?) type 31. No S/S 6251, for sale.
Complete except for speaker and one valve. Mr. M. Smith,
Fran View, Begwyns Bluff, Hereford, HR3 5SA. Tel:
Hay on Wye 820854.

ULTRA "Troubadour" model U626 (1949) for sale, and
MURPHY UV12 (1961). Ultra thought to be working but
Murphy needs repair. Miss Barbara Murrell, 52, Station
Road, Wallingford, S. Oxon.

VIDOR PORTABLE, cat no.320 for sale. Thought to have
been made not long after the war. Mr. P. Roland, 17,
Cedar's Road, Hampton Wick, Kingston, Surrey. Tel:
977 6716 (Evenings) or 233 8855 (day).

DYNATRON "Berkely" radiogram for sale. Five wave-
bands, Garrad changer, magic-eye replaced, instruction
-book. Cost £210 in 1956, new condition. "Offers close
to origina, price, which I am advised is well below the
collectors' price". Mrs. I Riley, 17, Hannover Close,
Darlington, County Durham, D63 8BB. Tel: 0325 481229.

EDINBURGH: Anyone in or near who can help with repairs ?
I have a number of aged valve radios I should like
serviced. E.S. Lomax, 33 Great King Street, Edinburgh,
EH3 6QR.

VALVES WANTED: Anyone near SHEFFIELD area who can help
with replacements ? I have an Echo A232. Jane Chapman,
The Nook, Netherside, Bradwell, Derbyshire.

RADIO, not very old, but I think considered classic
in its day. Write: A.R. Newell, The Chine, Gallow's
Tree Common. Nr. Reading, Berks. RG4 9BY. (Thought to
be a Pye PE8 long/med/short, with E series valves), 10"
speaker, Ac mains.)

FERGUSON VALVE RADIO, about 20 years old, for sale.
Working. Mr. I. Locke, technical officer of the
Isetta Owners Club of Great Britain, who says he
would accept just a small donation for the set -
"for a few cigarettes". 217B Chichester Road,
Bognor Regis, Sussex. PO21 5AQ.

FERRANTI 005 AC all-wave superhet for sale. Working.
Brown bakelite case. Mrs. E. Cottrell-Smith,
"Ardmore", 8 Green Lane, Chislehurst, Kent. BR7.6AG
Tel: 467 2249.

RADIOODDITIES.....NUMBER 1.

THE HEADPHONE LOUD SPEAKER

FOR
VALVE SETS.

PRICE
18/6

Patent
Applied
For

SCIENTIFICALLY
CONSTRUCTED TO
GIVE PERFECT REPRO-
DUCTION OF THE
VOICE AND MUSIC
FROM YOUR HEAD-
PHONE.



Sole Manufacturers—

HAZZARD & Co.,

192, Coventry Road, Small Heath, BIRMINGHAM.
Phone: Victoria 546

Loudspeakers were expensive early in 1923
so many people simply placed earphones in
a bowl as an "amplifier", so that several
people could listen simultaneously. Here's
a cheap device that went one better: just
a funnel on a stand with a forked-end for
"input", on which you clamped any pair of
earphones. (Have you a Radioddity ?)

HMV RADIO model 473. (c.1937). near working condition.
Interested ? Mrs. M. Connolly, 27 Burdon Lane, Cheam,
Surrey, SM2 7PP. Tel: 01 642 1669.

MURPHY BAFFLE, model A146 CM radio for sale. (c.1950).
Very good working order. Mr. J. Hancombe, 610 Warwick
Road, Solihull, West Midlands. B91 1AP.

DECCA RADIOGRAM, model RG 100 for sale. Good condition
and in working order. I am not interested in the
financial side of it, but would like it to be preserved
in a museum. Mr. R. Davis 53 Carey Road, Wareham, Dorset.
BH4 2OAY. (Gerald Wells would accommodate it, but is
unable to transport it to his museum in Dulwich, London.)

SOUND EQUIPMENT for sale: QUAD II amplifier, control unit
and VHF tuner. Purchased 1947, requires new set of 12
12 valves; SPEAKER 12" diam Epoch mains-energised, with
built-in 12 volt rectifier in large cabinet, suitable
for hall or electronic organ. Suggested price, together
£150. Mr. A. Merchant, 43 Champion Road, Upminster,
Essex. RM14 2SZ.

MURPHY "Baffle" set, for sale. Type A14 6CM. Bought 1950.
Working. Mr. J. Hartley, Robins Wood, Llanfaellog,
Ty Cross, Angelsey, LL63 5TB. Tel: 0407 810534.

FERRANTI type U1003 VHF/FM RADIO for sale. Thought to be
30 years old. Bakelite. Barbara Baker, Rainwood Corner
59, Whirlow Park Road, Sheffield S11 9NN. Tel: 367 247.

BUSH DAC 10 for sale. Brown bakelite, working. Has it
any value ? Mrs. Joan Ross, 9 Bishops Walk, Chislehurst,
Kent. BR7 5PU. Tel: 01 467 3501.

VIDOR PORTABLE, mains/battery set for sale. About 30 years
old. N.L. 17 The Drive, Edenthorpe, Doncaster. S. Yorks.

PYE FENMAN II. Is this vintage ? R. Rickaby, 10,
Meadowfield Drive, Cleadon, Sunderland SR6 7QW.
Tel: Baidon 367403.

FOR SALE: I have two matchbox crystal sets, one of which
is spare and is for sale. C.1923, in mint condition and
complete with instruction leaflet. Offers in writing
please, to Gordon Bussey, 64 Pampisford Road, Purley,
Surrey.

AMPLION FOLDED HORN LOUDSPEAKER and MULLARD "Raleigh" PM
five-valve for sale. The receiver is circa 1927, and
recently rewired, using all the original components.
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