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A holiday guide
PIRATES AT BAY
Radio anarchy

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Editorial

Upon flicking through the pages of this issue, I am sure you will notice the we have finally reached the end of Paul Coxwell's superlative series on CB in Depth. I would like to personally thank Paul for his sterling work in producing this lengthy piece, which I rate as the definitive work on the innards of a rig. I am not alone in believing this, as countless readers have written to praise the work. If you are one of the few readers who do not keep their magazines for longer than a year, why not cut out these pages and keep them in a folder for future reference? Thanks are also in order to the Norwegian Tourist Board for their help in providing photos of our special holiday guide. A nice bunch of people you couldn't wish to meet. Sadly, we bid a fond farewell to Barry Maxwell of the DTI this issue. Barry is going onto bigger and better things and he will be sorely missed in the CB world. Last but not least, I would personally like to raise a couple of digits to a certain CB distributor who, in a very abusive telephone call, described your favourite magazine as "a comic, a rag", and who would "give it about two months before it folds". These are exactly the same words he uttered to me over three years ago — and we're still going strong, mate!

Sponsored Shave

Cross Breakers are organising a charity event, in aid of the Meningitis Trust. It will take the form of a total head and beard shave. Victim of this massacre is the well-known and much-loved Chris (Grizzly) from Gloucester.

At the Cheltenham eyeball, at The Swan Inn, Coombe Hill on May 8th, Grizzly will be set upon with a razor and is willing to have the whole lot removed in aid of this very worthwhile cause. Of course, Grizzly wants to make a lot of money for this charity, and so asks you all for your sponsorship. Well known on the DX and eyeball circuits, Chris should have been heard of, if not met. It will certainly be a shock to the system to see him doing a 'Kojak' impersonation on this year's circuit. The only problem is that he will probably have to change his handle, (he certainly looks like a Grizzly at present). Those of you who would like to sponsor this event, please contact Cross Breakers at P.O. Box 15, Radstock, Avon. All sponsorship and donations will be very gratefully received on behalf of the Meningitis Trust. Please give your support for this very worthwhile cause. The more money that Chris can raise means a quicker cure or vaccination found for this killer disease. Get your cheque books out, and send in some cash.

Ham Club Closes

Due to the pressure of running his own business, Martyn Bolt has, unfortunately, had to close the books on the Ham International Radio Club. Martyn attempted to find someone to take over the club without success as he has a few items of club stock left (rubber stamps, embroidered patches etc). He is now selling these at 60 per cent of retail value so, if anyone would like a souvenir of the group, a stamped addressed envelope will bring the latest list and a copy of Barter News, his listing of used radio equipment. Write to: 112 Leeds Road, Mirfield, West Yorkshire WF14 0JE

Sixth for Sierra Tango

News has just started to filter in about the Sierra Tango DX club's sixth annual eyeball which is to be held at the Robin Hood Camp, Coast Road, RhyL, North Wales on the 9th, 10th and 11th September. Chalets are available in either two, four, six or eight berth formats and the club would like to point out that, after a few problems last year, children will be made welcome this year. Anyone wishing to book chalets or stalls should either write to PO Box 8, RhyL, North Wales, or telephone RhyL 54207 or 50161.

Inkford Brook Breakers

The Inkford Brook Breakers Club, based in Birmingham, have asked us to let readers know of their existence — so here goes. The club has been going for 13 months and is both a DX and a social club. They welcome new members with ideas for club activities. Contact the Secretary, PO Box 1022, Hall Green, Birmingham B28 OYB.

New Dates for HEDS

In the March issue of Citizens' Band, we carried an announcement about the 1988 Home Entertainment Dealer Show (HEDS), to be held at the Birmingham National Exhibition Centre. The dates for the show have now been changed. HEDS will now be held from August 15-18, a Tuesday to Thursday period, as opposed to the originally announced May 8-10, a Sunday to Tuesday slot. Explaining the date changes HEDS' Director Tony May, of the NEC's Exhibitions Division, said: "We have taken full cognisance of a special dealer survey, soon
to be published by ‘video Week’ magazine, which shows categorically that the most popular venue and date is Birmingham in the Autumn.

"May was never our ideal choice for HEDS '88 but projected availability of space at the NEC limited us to specific dates and a specific hall. After studying the 'Video Week' survey we approached the NEC again and were delighted to be offered appropriate Autumn dates, previously not available".

Mr. May emphasises that the original concept of HEDS would remain the same but that because of the increased space available a number of extra special features will now be incorporated “making the show even more varied and interesting”.

As the new dates mean HEDS will now be held in a peak school holiday period, one of many special features is likely to be a purpose-built children's viewing theatre; possibly sponsored by a major video distributor.

Reiterating the original reason for launching HEDS, Mr May added; "As well as providing visitors and exhibitors with a many-faceted catalyst for improving communications and dialogue between dealers and manufacturers, the show also gives the home entertainment industry the opportunity to increase its European and worldwide market and status”.

New Mikes from Midland

Two new microphones have recently been introduced, manufactured by CTE International in Italy with the Midland brand names.

Both microphones are unique to the CB market since they are the first to use a luminescent material. On both, the PTT switch, volume control and microphone holder glows in the dark. No more fumbling around at night for your mike!

Both mikes are part of CTE's new high-quality line of accessories being introduced in the coming months.

The F10 pre-amplifier microphone will sell at £14.95 and the F14 power/roger bleep mike at £24.95. Our thanks to Nevada in Portsmouth for the information.

Mercia Charity Night

Mercia QSL Club (Coventry) are holding a charity fundraising night in memory of their much-loved late Chairman, Folksinger (Brian Sunderland) who passed away suddenly in November '87. It was one of Brian's dearest wishes that the club raise money for Birmingham Children's Hospital, much publicised at present.

It will be held in the upstairs room of Coventry Transport Club, corner of Stoney Station Road and Cambridge Street, Coventry at 7.30pm on Saturday 19th May. Events planned include a disco, Miss Mike Quebec 1988, a 'throw 10p and the nearest to the whiskey bottle wins it' competition, a Dutch auction, a raffle and the highlight of the evening — Big Daddy Tom and Speedy Bee Terry — who have agreed to lose their much-loved beards for £100.

No-one can remember seeing Tom without a beard, so it may be a great shock, especially to his wife, Chris (Paper Lady)!

The whole evening should be a fun night out, created especially to make you part with your hard-earned cash. Entrance is 50p on the door, so there is no need to book tickets. If you can't go, then please feel free to send your donations to Mercia QSL Club, P.O. Box 158, Coventry, CV6 6BD. All proceeds to go to the Birmingham Children's Hospital for much needed equipment.
Bad Buddy?

The wonderfully named Giramondo lives in Cheltenham and has a nice line in subtle humour.

Further to the picture printed in Citizens' Band magazine (page 23, February 1988 issue) showing a gentleman monitoring traffic conditions on a by-pass and reporting to the CB users thereupon. Whilst I appreciate that the location is not necessarily within the UK jurisdiction, I wish to draw attention to the contravention of item 10 which I read on the back of my Citizens' Band Radio Licence (expiring 07/88).

I grant that his heart is no doubt in the right place and that he is making every effort to be helpful, in the tradition of "A..."

Wary and Unsure

Newboy writes from Essex and appears to have some doubts about the latest on the market...

No doubt the D-Day Rig article was read with interest by many breakers, but unfortunately it told me little or nothing and certainly not enough to encourage me to spend an over-the-top price for a rig which can be no different to the now-called older rigs of a slightly higher frequency as there was nothing in the article to even suggest that the PC-404 (400) is any improvement on the 200.

The 200 is a very good rig but only after the local doctor has fitted active crystal filters, and personally I would not buy a new rig unless it incorporated the various mods that have been devised over the past few years to improve performance, I am certain that the 404 does not contain any such refinements, as the supplier would make a sales pitch on these to justify a £30 to £40 higher price.

The article actually states that this rig is a well thought-out middle range model and this has prompted me to again look for a top-quality model but I can't find anything on the market which claims to be better and is in fact better.

The average CB rig is, in my opinion, a very poor example of modern radio technology and is made to a price and one only gets what one pays for but for those of us who want the best and are willing to pay for it cannot seem to find anything, or at least I cannot. The DTI has much to answer for this, as who is going to produce a range of special sets just for the British market?

The Zodiac M244 would appear, on the face of it, to be a step in the right direction but I know of no-one who does a sale or return on such items, therefore I and others are going to have to wait a long time for the word to get around to tell us if it is any good or not, unless some enterprising supplier can produce an independent performance report. These
Bad Buddy // Dodgy Dealers // Whoops // Wary and Unsure

things must even now be available as the models are only new to this country, and must have been written up abroad, and suppliers should note that there are many who would pay good money for good tests, and, as far as the MZ24 is concerned, the first supplier who can prove to me that this is the best would get my order.

Please do not think that I am knocking the review, as any information to the CB user is most welcome, and we have been out in the cold long enough as far as the radio fraternity is concerned — especially the RSGB who refuses to acknowledge that we exist (I resigned when I found out that they do not even permit CB advertising) but we have noticed that the biggest TVI offenders are RSGB members with souped-up CB sets and twigs. One only has to listen to their broadcasts to realise that something more than the normal 'r'g is being used.

Dodgy Dealers?

Furniture Man, from Holyhead, wants to get a few things off his chest...

I am writing to complain about the Editorial which appeared in the February issue, volume 6; number 3, in which you said "What's gone wrong? Is the equipment too expensive?". My answer to that is, yes far too expensive for what it is. You are forgetting that these frequencies have been around for a long time, it is only now that we have been allowed to transmit on them legally. Do you remember the old sidebands and AM? Well, they are still transmitting and they are still knocking the FM frequencies to bits. The difference between the new frequency and the old frequency is that the new one will get hit harder than the old one.

To answer your next question "Are we all too afraid to invest in what many must think of as a white elephant?", the answer is no, it is not a white elephant. It can get out very well on the new frequency when the conditions are right. He has had Holland, Germany, Switzerland and Poland. Even I have had Switzerland, so you see you really can get out. I have just a few things that I would like to mention about CB Magazine, and this is the advertising on new CB radios, especially the Alpha 4000 and the Alpha 4002 from Germany. They look exactly the same as the Rotel RVC 240 and the Rotel RVC 220. How can they justify the price of the rigs when I bought my RVC 240 for just £20 new? And so did a lot of my fellow CBers, and that was only 2 years ago when a SuperStore in Holyhead bought a job lot and sold them to us. Since then we have had to rely on Mail Order or very long journeys to CB Cabins.

Which brings me to aerials like the Sirio 2012 of Italy, GPA ½ wave, Black Shadow ½ wave C.T.E. Spectrum 2001 and the C.T.E. Spitfire 3-element beam which are all illegal for 27 use. Why are these for sale in your magazine? Why can’t we have more legal aerials for 27 instead?

Point taken, Furniture Man, but (a) we, as a magazine, have no control over prices of rigs and other equipment set by distributors/dealers and (b) as yet, it is not illegal to carry advertisements for the antennas you mention. Although — note well — it looks as though legislation may be passed soon to prohibit same.

Whoops!

Two letters now, from eagle-eyed readers who spotted a not-so-deliberate mistake in our January issue. The first is from Atlantic Swimmers from Chorley, the second from Arthur from Romford...

In the January 1988 issue, there was an article called Talking Tartan. It was three pages long and showed (in red) six graphics — all the same — of a castle. What’s so bad about that, I hear you say. Well, I shall tell you. It is, in fact, Caernarvon Castle which, surprise, surprise, is in North Wales.

Is there a reason for this? Maybe the Scots love it so much and have built a replica, or that the Welsh don’t like it and have let the Scots have it — or maybe you made a mistake.

I probably won’t be the only person to notice this so I thought I’d let you know. Apart from the odd mistake which anyone can make, I would like to congratulate you on a superb magazine.
Shepherd Man reports on some recent charity successes

When having a natter to Eamonn (EDCitBand) the other day, he informed me that Mack The Hack had decided to call it a day and stop writing for this magazine. It seems that Malcolm has, in his words, “dried up” on information. Now, for many readers including myself, he will be missed and although some readers might not agree with this, he has in the past years been of great interest to many CBers and played a big part in this magazine. I would like to thank him for all that work and wish both him and his family the very best for the future and I am sure that he will write the odd piece in the future.

I am always interested in reading local club and group magazines and newsletters, so if anyone wants to send me a copy of them I would be very pleased to receive them. I know that these publications rely on others to send them information, so please give them every support. Sad news from Snapshot (Chris), he is thinking about giving up the publication of CB Newsletter as he is finding it very hard to get any information from breakers and clubs. I only hope that he will continue, and that he will be given the support that he deserves.

As was to be expected, some breakers are now changing over to the new frequencies and this has meant that many users are finding it harder to get the ‘long distance copies’ that we have become accustomed to. Although these breakers are not changing in droves it has brought with it the problems that we have all come to expect from UK FM (Muppet Mode). Many breakers had been hoping to get a ‘clean’ frequency and the chance to use CB in a better way. To those who are changing I would ask on behalf of those who are already there, please respect the new frequency and your fellow users, so that we can all enjoy its use. We do not need the music-players, those who use foul language and those who talk on the 09. In fact it may be the right time for the RIS to take an interest in the users, and put paid to those who abuse the laws, before it gets too overcrowded. At the risk of upsetting many users, I think that it is a shame that the prices of these CEPT sets are now going down.

Anyway, what do you think of the new frequencies? Many people are now expressing great interest in the thought of having a “legal” SSB system in the future and I am sure that other readers would like to know your thoughts. What about some sort of test?

Like most things to do with the radio world CB is not without its problems. Many of you will of course know that ‘only type-approved sets’ can be used on CEPT. To which, I would ask all those who are intending to buy new sets, check with the DTI for the ‘Approved’ ones. Some shops and outlets are telling breakers all sorts of stories in an effort to get hold of your money. As another check, get the shop to do a ‘power output test’ on new rigs, as many new frequency sets have been found to only push out between 2 and 3 watts total. If you have been sold a set as ‘Type-Approved’ and it’s not, or you have another problem, contact your local Trading Standards Office and explain the problem. You are covered under the 1968 Act. However, you should first of all take the set back to the place of purchase and explain any problems. They should then offer to exchange the set for another “Approved” model or refund your money IN FULL. Remember that we have the ultimate power — and these shops and outlets rely on giving good service, otherwise they will go out of business.

It is always surprising to find the ways in which breakers around the various parts of the country use CB. That is, apart from the obvious ways. On my travels around various parts I have found some breakers playing games such as ‘noughts and crosses’, ‘chess’ and even ‘battleships’. But one of the funniest has to be a form of ‘University Debate’. This consists of a chairman and four main speakers. Two ‘for’ the debate, and two ‘against’. Then a selection of 20 local breakers who vote on the final outcome after the four speakers have said their piece. The range of subjects is endless, and you can have a lot of fun — with the most obscure of subjects. But, remember to limit the total amount of time per subject.

Or perhaps you can try a ‘general debate’, where you appoint a chairperson and a number of local breakers (say 20) and, via the chair, talk about a given subject. In this you can raise a point and object to matters raised. Although, please remember to keep it light-hearted otherwise you could end up losing a few friends. It is best to pick a good chairperson - one who will keep the flow going and pick up on certain points. Maybe if you all belong to the same CB Club you could put the ideas into a hat and draw them out in order, and work your way down the list. For the best results try and think of silly things that you know many others will enjoy — remembering that you will attract a very large number of listeners. Well what sort of games do you play? Let us know and we will print yours.

As we start into another year, let’s hope for a better one. Many groups, clubs and organisations are making plans for events. So how would you feel about inviting the DTI (RIS) to attend these functions? Not to bust people but to meet the breakers and have a chat. Maybe to even offer advice and give out the CB Information Sheets etc. I am sure that they would gain a lot of respect from some breakers, and even obtain the odd piece of information about some of the local “muppets”. In fact, Miss Dyls Gane (Director of the RIS) has said that she has no objections to her people attending functions — provided that you contact the local office and they do not interfere with any of their other duties. So what do you think? Does this sound like a
good idea? We are forever moaning that we can never get to meet these people — so now is your chance. They must be able to attend some functions!

I know that one or two clubs have decided not to hold their annual eyeballs and other events this year, because of the costs involved. So why can’t a few of these clubs get together and put on one big event. This way, and with some thought, they could even plan bigger events — maybe turning them into weekend events, with a place for people to camp out overnight. Or how about an all-night eyeball. This could be good fun — in the dark! Has this ever been tried?

Many breakers will know this one as the “Poppy Run”. The aim is to raise money for the Royal Star and Garter Home for disabled soldiers and airmen (reg charity). It is run by the 2LO Radio Club, and you can get sponsor forms or enter the ride by contacting them through 2LO Poppy Run 88, PO Box 50, East Molesey, Surrey KT8 9OH. The annual “Auchenlarie Eyeball Weekend” will take place from 29th April to 1st May 88. This is a very big weekend in Scotland and worth the trip. To book a caravan, stall and get other details, contact Cree Valley Breakers Club, PO Box 1, Wigtown, Scotland DG8 9HA.

The first ‘International CB Meeting’ organised by The Smugglers & Bexhill Renegades will be on the 5th & 6th March 88, at the Graville Hotel, Sea Road, Bexhill-on-Sea, East Sussex. Accommodation details, stalls and tickets etc can be obtained by applying to: Meeting Organiser, PO Box 139, Bexhill on Sea, East Sussex, TN40 2AF.

MAD DXers are holding a Barbecue and Eyeball 5th June 88 at the Forest of Dean. They are also holding a Mass CB Rally at Lansdowne Racecourse, Bath, on 11th September 88. Overnight camping is available at both events plus much more besides. Contact PO Box 12, Kingwood, Bristol BS15 5DT for further details.

The Warminster Eagles DX Club proudly offer CBers the chance to attend their 3rd Annual Eyeball at Longleat Safari Park (not in with the lions I hope!) on 31st July 88, where there will be lots of games to play and stalls to visit, as well as a visit into the gardens (included in the ticket prices). More details from: PO Box 13, Warminster.

The 2nd Tripe City Breakers Eyeball is on the 27th August 88 at the Barton Equestrian Centre (3 miles North of Preston). It is an undercover venue with facilities for stands etc. Please get in touch with: Flying Haggis, 217 Queens Road, West Church, Accrington, Lancs. Solway Pirates have moved the dates for their annual eyeball, because it clashes with another large event: CB 4 The Blind in Brighton are having their eyeball again this year. These dates and others will be printed as soon as they are confirmed. Esk Valley Breakers are doing a sponsored Modulation on the 7th & 8th May, a sponsored 1½ mile walk on 22nd May and a 36-mile cycle ride on 5th June, in aid of Highbank Old People’s Home in Dalkeith. They are offering some prizes on the modulation and they would welcome sponsorship support from others. More details from: Esk Valley CB Club, PO Box 5, Bonnnyrigg, Edinburgh EH19 3HQ.

Another group looking for sponsorship is “The First Monitoring Service of Great Britain (voluntary organisation) — CB 4 The Blind (Brighton) & Guide Dogs for The Blind Cycle Ride” It takes place from the 1st to 4th of April 88 and the select team of six (unfit) CBers will attempt to cycle 250 miles. For further details contact: MSGB c/o School House, Meadoway School, Littleton Street, London SW1 8SZ. Both CB 4 The Blind & Guide Dogs are registered charities. Many CBers play an important role in helping others throughout the year and, without your support, many needy people would be found short of finances.

Lastly, have you heard the new name for “Yuppies”, it is “Lombards”, it stands for: Lots Of Money But Are Right Dickheads (sounds like some breakers I know!)

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TRADE ENQUIRES WELCOME
Barry Maxwell has worked within the Department of Trade and Industry for over 20 years, during which time he has held a number of senior positions, the most recent of which was as Head of the Radiocommunications Division's Licensing Branch. In more than four years in this post he has seen many changes in the regulations surrounding the varied types of radio licence, including CB, for which his department was responsible and many of the relaxations which have reduced the burden of red tape which once accompanied the CB licence have come about at his suggestion. Now Mr. Maxwell is moving on to pastures new but before he goes, he has agreed to give Citizens' Band the lowdown on just what it takes to regulate Britain's complex communications networks.

Barry came to the Radiocommunications Division, then the Radio Regulatory Division, in October 1983. He was among the first batch of DTI officials to take over what had, until then, been a department of the Home Office and, like many of his colleagues, he found the Home Office procedures which he had inherited something of a culture shock. To use his own words: "I found myself in charge of about 30 people and responsible for more than 100 different forms of radio licence. Some of them, such as research establishment licences, were so obscure that they took up hardly any time at all. Others, particularly CB, affected literally hundreds of thousands of people so that someone had to deal with them on a full-time basis. At that time, the recognised CB service was less than two years old, and, before I had even got the feel of the place, I found myself embroiled in picking up the threads of its first ever licence review, which had begun shortly after we arrived."

Within days of taking up his post, he was faced with a barrage of submissions to Ministers, Parliamentary Questions and correspondence about licence changes. He told us: "I had to learn the regulations as quickly as possible in order to appreciate the likely effects of the many changes that were being urged upon us. It wasn't easy but I have always felt that it gave me an unequalled insight into both the needs of operators and the sometimes difficult task of reconciling them with the requirements of the law. It is often one thing to know what you expect from a new rule and another to see its implications once the legal beavers have finished interpreting it, so that we had to be most precise in the way that changes were proposed".

The result of these first few weeks of

END OF AN ERA

Keith Townsend bids a fond farewell to the DTI's Barry Maxwell
hectic activity appeared in November 1983 and included the introduction of a minimum licensing age, direct supervision of younger operators and the recommendations for the emergency use of channel 9, incorporated in the CB Code of Practice.

Consultation
Returning for a moment to thoughts of those first days, Barry explained: "I was the first member from within the DTI to transfer to the RRD after its move from the Home Office. I came from an environment where consultation with outside bodies was a natural way of life. I sensed that the consultation environment had only just started as far as CB was concerned but it is very necessary for Government to have an active dialogue with industry and users. The best policy is that derived from widespread consultations, so that the views of everybody with a genuine interest are taken well into account.

"Meetings with the CB user groups were still in their infancy back in 1963. Although they grew, both in terms of attendance and the length of their agendas, they never lost their special appeal to me. Many meetings held inside Government tend to be very formal but this could never be said of meetings with the CB lobby! The old Civil Service term 'a frank and useful exchange' has long been recognised as a euphemism for us being called great wallies. I never minded. I took being called 'great' as a real compliment. We did, of course, have our own triumphs, like the time that BCBC's Keith Townsend tried to light the cork tip of his fag by mistake! As Chairman of the meeting I felt obliged to point out to him that I was not prepared to accept any CB burners within the hallowed corridors of Waterloo Bridge House.

"But seriously, the consultative meetings were refreshing in their frank two-way dialogue and a lot of useful ideas resulted from them. They helped us to explain our views to the enthusiasts and to take account of the positive proposals which they put to us, often in the most forceful of terms. I believe that CB representatives were also a little surprised at the lack of 'them and us' atmosphere of these meetings, apparently a strong contrast to what they had experienced in the past".

Clearing at 29MHZ
Those who remember the pre-legislation CB campaign will recall the shock and horror with which all and sundry greeted the Home Office suggestion that the only part of the spectrum available for a CB service was on the UHF band at around 900MHz. It was far from what enthusiasts had been seeking and would isolate them from CB users around the world for ever. Even after the Home Office agreed, under the weight of thousands of responses to its Green Paper to allocate a part of the 27MHz band there was widespread dismay at their choice of frequencies and user groups never gave up the campaign for compatibility with the rest of the world. Despite this, the Home Office remained adamant and it was not until the DTI took over that the question began to receive serious consideration. Even then, the administration felt obliged to tell user groups that there were massive difficulties in the way of such unity. Other services were still using the frequencies in question and it was going to be a long and extremely expensive business to relocate them.

Mr Maxwell recalls: "The biggest task that I had in my entire time with the Radiocommunications Division was to clear the 27MHz frequencies in line with the CEPT recommendations. CB users often put to me the view that these frequencies should have been allocated to CB from the outset in 1981. If only that could have been the case, then my job would have been much simpler, but no-one knows better than I do why that was not possible. The CEPT frequencies were already occupied by three other services, on-site paging, as used in many hospitals, radio control and data buoys. "Relocating the data buoys was not too difficult. Alternative spectrum was found higher up the band and since these devices were located out to sea, we could use frequencies close to the television IF (intermediate frequency) band without the risk of ruining anyone's television reception. Model control was much more difficult. Model owners wanted new frequencies in order to achieve a degree of harmonisation with their European counterparts. We were eventually able to satisfy this aim but what was to become of all the modelling kits already in use at 27MHz?"

Fortunately, in common with its American forerunner, the CEPT specification has some "windows" in it and we were able to direct modellers to these frequencies. In fact, we found that most modellers were keen to move off 27MHz so the release of new frequencies for model control was seen as good news, even with those who wanted to stay with 27MHz despite the fact that too would soon be dominated by CB.

The most difficult issue was on-site paging. Here, we were dealing with many users, often in sensitive areas such as hospitals. TV Band 1 proved to be the long-term solution. The old 405-line black and white television transmissions were due to come to an end, releasing a considerable amount of spectrum for reallocation to other services. Unlike CB channels, which are only 100KHz wide, a single black and white TV channel occupied about 5MHz of spectrum and there are a number of such channels within the band. We were able to release a block of frequencies from Band 1 to satisfy the long-term needs of the paging industry but how would the users react? How would you feel if you had spent thousands of pounds on a new paging system, only to be told that a group of hobby users were moving onto the frequencies? We eventually found a remedy by securing the agreement of the users of a frequency close to 27MHz that some of their frequencies might be made available for re-tuning existing paging equipment likely to be affected by the coming of the new CB facility. So we formulated a new strategy for on-site paging, which meant new frequencies in Band 1 and other frequencies within tuning range so that those subject to interference from CB could have an escape route".

A Big Job
Explaining the amount of work involved in reconciling the needs of all the various types of users, Mr Maxwell told us: "Creating this policy took quite a while. If I had one pound for every meeting that I had with user groups, firms or associations, I would be a rich man by now. We also had to satisfy those services whose frequencies were harmonically related to the CEPT CB allocation, but that's another story. We were only grateful that the CB lobby remained patient throughout these long and complicated negotiations. Believe
that and you will believe anything! The 
CB postbag was always bulging and the 
most popular question was always "When 
can we have the CEPT frequencies?" At 
last, on September 1st 1987, all this 
work reached a successful conclusion. It 
was a very satisfying moment. At last we 
could really reply to all those letters and 
tell people 'It has happened!' I knew from 
the outset just how much CBers wanted 
those frequencies but we were faced with 
the task of satisfying everyone all the 
time, a difficult task indeed".

Correspondence

"As I say, we had a very full mailbag on 
CB. It was not possible to do everything 
that people had wanted (well, some of 
the suggestions were physically impossible!) 
but we did take note of their views and 
much that had been done on CB came 
from our listening, reading and noting. 
Hobby radio of all forms excited its 
enthusiasts and they all tend to believe 
that Government should do what they 
think is right. In considering CEPT CB, as 
so in many other things, we do have 
others to consider as well, but we do our 
best."

We have always tried to give people 
a full answer to their questions. To those 
who have written, theirs is an important 
letter, even though it may be only one of 
hundreds which we have received on 
that day and I and my staff were always 
ready to treat them with equal 
importance, even though I often felt that 
it was the short-term jobs, such as working 
through the mail mountains, that 
conspired to delay longer-term issues. 
Nevertheless, it is you, the CB users, who 
are our customers and we have a duty to 
satisfy your legitimate needs. As in 
meetings with user groups, some really 
useful points came out of the 
correspondence, so that answering 
letters was a task worth taking trouble 
with".

Informing the Masses

Perhaps it is his long association 
with industry that has made Mr Maxwell 
aware of the true value of public relations. 
He explained that one of his department's 
major successes, as far as he was 
concerned, had been their regular CB 
Information Sheets. "Never have I come across so many 
rumours as abound in the world of CB 
and that is why I welcomed the many 
factual articles which have appeared in 
Citizens' Band over the years and why 
the excellent CB section who worked with 
me put so much into preparing our 
Information Sheets. It was always a 
source of considerable satisfaction to me 
that they became, and remain, so 
popular. I was also pleased when 
Citizens' Band was able to help us by 
distributing copies of the CB Code of 
Practice in one of its issues. I thought this 
was a superb example of the Press and 
Government working together for the 
benefit of the users, on whom we both 
relly of course'.

Still on the subject of your favourite 
bedtime reading, Mr. Maxwell was unable 
to resist the opportunity to make sure that 
we owed him a small favour for the future. 
In a comment designed to send the Editor 
running to ask for a rise, he said: "Within 
RD, we have always read Citizens' Band 
with a great deal of interest and have 
particularly welcomed some of the 
thoughtful articles where it was clear that 
a lot of research had been put in. For 
instance, the article on a United Europe 
was an excellent guide to another 
countries' regulations".

Licence Review

Reflecting on what he sees as four years 
of hard but interesting work, Barry told us: 
"My last major job on CB was to clear the 
licence review group, whose work 
culminated into the issue of the new 
l licence to coincide with the release of the 
CEPT frequencies. A lot of work went into 
the licence review. We started with a 
'blank piece of paper' approach. First we 
built in all the good points from the 
existing licence and then examined all 
the points which had been raised over the 
years of correspondence, consulted 
widely within the Department and within 
Whitehall in general and, of course, had 
several meetings with CB user groups. 
The new licence is the product of all this 
and I hope that it derives from such 
a broad base, it will prove enduring. I 
was particularly pleased that we were 
able to incorporate the Code of Practice, 
formally a separate document within it. It 
is presented in a much more tidy way 
and gives more prominence to the important 
aspects of the Code. I am also delighted 
that it has brought about some relaxation 
in the rules governing the use of CB 
aerials. Getting agreement for this from 
other users of the spectrum was a far-
from-easy task, but one which I feel has 
worked out to everyone's advantage".

The Future

"After four years in the RRD I knew that it 
was time to move on but I would have 
liked to see the full CEPT service get 
going. As we head towards a single 
European system in the 1990s the UK 
adoption of the CEPT specification is a 
significant contribution to the 'one-
market' principle, as far as radio is 
concerned. There is also an exciting 
challenge ahead at 934MHz, a service 
which, despite its early critics, has proved 
well worthwhile. There is a lot yet to be 
settled on the subject of Short Range 
Radio, first reported in Citizens' Band, but 
it is good to see UK firms taking a positive 
interest in this market. It is certainly an 
area to watch, for both business and 
individual use."

Barry Maxwell left the Radio 
Communications Division to take up a 
challenging new post in Lord Young's 
new Enterprise Initiative and claims that 
we have given him good training for the 
post, as "CBers were full of enterprise 
and initiative". He tells us that he misses 
the radio world, in which he still takes a 
keen interest. He assured us that 
although he is not (yet) an active radio 
user, his wife and kids can't understand 
why he should take a keen interest in 
particular antenna arrays whenever they 
are out in the car. He simply regards it as a 
legacy for four years working in 
radiocommunications.

Those of us who met and worked with 
Barry Maxwell over the years grew to 
know him as a powerful ally of CB, though 
getting him to move once he had dug his 
heels in could be more than a mile 
frustrating! Despite his predilection for 
Spurs, he is a gentleman who listened 
with respect and interest to the views put 
to him during debates even when, as 
ocasionally happened, they got a little 
healed. His calming influence and 
ready wit will be sorely missed by those with 
an eye to the future of CB. Here at Citizens' 
Band, we are indebted to him for 
countless favours over the past four 
years and wish him well for the future.
What was going on? "Out. or Jimmy Cricket. or Chalky from the breaker club, was selling out! My world ANTENNA, ONLY £75 NO. It was a generous donation to Church Funds PLEASE. What, the Vicar too? What was going on? And there was another. FOR SALE, CB MOBILE RIG. BUILT-IN SWR METER NEEDS ATTENTION, NEARLY NEW ANTENNA, ONLY £75 NO. It was an epidemic! Big Jane, stalwart of the local breaker club, was selling out! My world reeled. Was I to be the only breaker left in the village? Who would I talk to? I scanned the window but there were no more of the disturbing advertisements. So Shocker the Electrician hadn't sold out, or Jimmy Cricket, or Chalky from the others? I could see the tell-tale postcard sticking out of his pocket. Chalky looked surprised. "Of course", he said, and walked on past me. He could act, I'd give him that. That look of surprise would have fooled Laurence Olivier. I glowered at his departing back and stalked off down the street! So they had all the heart and were trying to sell out before anyone else caught on, were they? Perhaps they were even hoping mugs like me would buy their obsolete old equipment! Well, two could play at that game! I hurried home and drafted my own advertisement, pricing my equipment well below everyone else's. There! If there were any buyers out there who didn't know what was about to happen, they'd buy my stuff! Ha! Thought they could put one over on Filly, did they? Ha! I rushed off to the post office. That evening, I met Big Jane and Oily in the pub, both looking pleased with themselves. I joined them, smirking. "You look cheerful, Filly. Won the Pools?" Jane commented. "No, I found a buyer for all my CB stuff. Got a good price, considering", I chirped. "I got a clear conscience, too. He wanted it for his son to practice basic electronics on, so he won't mind when — well, you know." Jane looked puzzled. "When what? I assumed you had picked up a bargain like the rest of us down at the Breaker Bistro. I got a brand new base station for half price!" I gaped. "Yeah, and I found a brilliant mobile for 75 per cent off! Knockout!" enthused Oily. I started at them. "You know, the Breaker Bistro sale", said Jane impatiently. "Word went round that he was selling up fast and selling his new stock cheap. Must admit, I thought we'd stolen a march on you, but we might have known better! He didn't have much stuff and it went fast. All gone now, of course". "Er..." I said. "Jane - how much did you want for that mobile of yours?"
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8 Digit accurate counter requires 13.8 V supply max input sig. 1V.P.P. impedance: - 50 OHM/50 PF

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Designed to boost reception on all but the very best radios.
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Gain: 25 dB

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Measures power in 3 ranges up to 1 KW with an AM modulation meter (if required).
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Power: 10/100/1000 Watts

### ANTENNAS

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Gain: 6.8 dB

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Using High Quality Aluminium and a superb base coil. This is a top of the range antenna.

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Europe's most popular base antenna with 6dB gain and high efficiency 26-30 MHz

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Power: 2 KW

**SALIUT 27**
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Adjustable 26-30 MHz power max. 2 KW gain 6.5 dB. The ultimate base antenna for long distance work.
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More names and addresses from QSLers all over the world, courtesy of David Shepherdson

This month I think I'm going to have to apologise to a few people! First of all, to anyone who wrote to me via the magazine in the last four months of 1987 who are still waiting for a reply (if return postage was included) or a mention, sorry. At the time of writing, I have just received a pile of letters from those four months, so read on! In the past I have mentioned that any letters sent to me via the magazine take on average an extra six weeks before I see them so anything urgent or regarding forthcoming events should be sent direct to my home address (3 Tarn Villas, Cowpasture Road, Ilkley, West Riding of Yorkshire, LS29 8RH). Until recently the "record" stood at eight weeks delay between a letter being sent and my seeing it. However, this has now been completely and utterly smashed with the eventually arrival of a letter which took ten months to be forwarded from London to me! Congratulations to whoever was concerned!

In the December issue I started off with the promise of a "Forecast Table" of forthcoming events as I didn't have any firm news to hand. The promise was there, but the table wasn't! Not my fault, well, perhaps I did go on a little but I did send the table, honest! Continuing on the same subject, that of forthcoming events, I currently have a list of about a dozen during the year ranging from the "Giant Meeting" in April at Co. Durham to the "North Wales Eyeball and Evening of Entertainment" in September at Bodelwyddan. Regrettfully, because of the size of this list I cannot mention each event in each issue and therefore can only use the most immediate three or four. If however you would like a copy of this list for your own reference or if you...
have been organising an event which you haven't yet let me know about, then drop me a line as soon as possible! For a copy of the list, just ask for a copy and please do remember to enclose a 13p (Second Class - UK) stamp and providing I can read your address, I'll be very happy to send you one. If you are having a "do" and haven't let me know, then drop me a line as quickly as possible with plenty of clear information about where it is, who to contact, how much admission is charged (if any), how much for a club's stall, and who, in the case of a charity, would benefit from any proceeds.

Now, this is the April issue, which could come out in March so you should therefore have this in time to read about the brothers who are walking between Arbroath and Stoke-on-Trent in aid of Multiple Sclerosis and the Blackfriars Special School. This sponsored walk starts on Monday April 4th and anyone who wishes to sponsor or eyeball them will be most welcome. For details of the route and how to sponsor, please drop a line to Phillip (The Wanderer), PO Box 4, Arbroath, DD1 1HS, Scotland, but please don't forget a SASE for a reply, thanks. Hope the weather's better then as it is as I write this! Brr!

Also in April in the aforementioned Giant Eyeball held at the Youth Centre, Stanley, Co. Durham. If previous years are anything to go by I'll be pretty well attended and I would hope to see many of you up there myself. I don't yet have full details of all that is planned for up there, but by this time, the leaflets should be circulating around the country. If you haven't yet seen one of these leaflets, then drop a line to the contact address with a SASE and ask for one. Please do note that the date for this meeting is not what I (mistakenly) called the Bank Holiday Weekend, don't know what I was thinking of then, but it's the 17th of April and NOT the usual last week of the month. For Currie Caro collectors, this meeting is one of THE meetings of the year as many people have a new card done especially for the meeting and I've heard a rumour that at least one new club will be launched on the day! I've been sworn to secrecy so all I can say is that I've seen the draft of the new club and I think it's going to be a fast moving club!

Another meeting in April could be that of the Cutty Sark Club but since my old friend Tony (Vight/waik) retired from QSLing I'm sorry to say that my contacts with the club haven't been the same. Could I ask if the ORC is holding a repeat of last year's Social Evening details of which arrived too late for last year's events. If so, please let me know as soon as possible, thanks.

A request in now from a couple of Welsh breakers who are in the process of compiling a Black List of QSLers who say they QSL 100 per cent but don't. Copies of this list are available for 5p per sheet plus a SASE. All funds received will be donated to the local hospital. Personally I'm not too keen on black lists of any types as they always upset somebody. If you wish to see this list and support a worthwhile cause at the same time, David's (Smoky Chaser) address is in one of the panels. A request for a mention from one of our regular readers starts off this month's names and that's from Allan (Greenlingers) of Dundee. Allan sends out a bumper bundle of all sorts of cards and is well worth a good QSL for Allan depends on the CB and the Post for most of his contacts as he is virtually housebound but makes up for this by QSLing to the hilt! A request via Ray (UK POMA Rep) for a mention for a friend of his from Holland who swaps and controls about 20 POMA Collector Series cards. Although Henk (Pechvogel) cannot speak or write in English, you can write to him in English as his daughter translates for him. (Well, I can't read or write in Dutch so that makes us even.) Ray also says in his letter that he thinks that Sundown of America is trying to start
printing again and asks if anyone is still owed money or designs from the last time that they were active, could you be kind enough to get in touch with him (Ray) with details. From Birmingham hail's Les (Paramedic) who wanted a mention, say no more Les, 'tis done! Whilst from Co Durham, yet another card from Dave (Podgy) and from Manchester a bundle of cards by Sharp Graphics from Lynda (Spectrum) and last personal for just now is a new QSLer, or at least a QSLer with his first QSL cards. that being Barry (VTOL) of London. Both he and Lynda have said how pleased they are with the results that their respective printers have done with their original rough drawings.

A couple of local clubs now who would like to be better known and as they and their members QSL; where better than through these pages! The first (in date order, it was posted four months before I got it!) is the Papa Mike DX Group of Swindon. The club has a POMA FCC card available to members and the club now hopes to extend their membership throughout the rest of England and into Europe. No details of cost was included in the letter I received, either of the price of cards or of membership, but anyone who is interested, Keith (Special K) asks for you to drop him a line and he will reply in a few days.

The other local club which sent some details is the Lima Delta DX Group of Cambridge. The group has been going
for just over two years now and wishes to attract members from outside the Cambridge area. Cost of membership is £3 a year for which you get use of the PO Box and 10 Club Cards. Members outside of Cambridge should send a supply of SASE’s for the return of any OSLS sent via the PO Box. The PO Box is emptied once a week and interested OSLers should contact Colin (Cardsharp).

A letter has come my way from a DX Group in Austria. It has about 100 members though I don’t have any idea of membership cost. Edward (Hon. President) complains that in Austria there isn’t a CB magazine like this, (well, actually he said as good as this, but I shouldn’t say that). The group was formed in January 1983 and is run from Vienna though the group’s President actually lives in Durham here in the UK. The group designs and prints their own cards and wishes to encourage friendship between OSLSers worldwide. Any UK OSLSers who wish to join will be made most welcome. What’s the name of this group I hear you shout! That’s the difficult part, the card say it’s the RNI DX Group which I think stands for Radio North-Sea International.

That’s it, out of room once more. If you want a mention then please drop me a line either via the mag or direct to 3 Tarn Villas, Cowpasture Road, Ilkley, West Yorkshire, LS29 8RH. If it’s urgent then I’d suggest you send it direct rather than via the mag and any news of forthcoming events is always welcome, the sooner the better please and if you want a reply, then please don’t forget a SASE or similar.

For the benefit of regular readers:

For the benefit of regular readers;

**Forthcoming Events:**

- **April 17th** — Co Durham Giant Eyeball ’88 held by GBQDC at the Stanley Youth Centre, Stanley. Contact Ad: GBQDC Eyeball ’88. PO Box 5, Consett, Co Durham, DH8 8LT.
- **April 1** — Cutty Sark POMA Meet? — Cutty Sark Club, 116 Bradenham Ave., Welling, Kent, DA16 2JG. NO INFO RECEIVED YET.
- **May 7th** — Tango Papa Charity Eyeball in aid of Multiple Sclerosis Research, held at the Floral Hall, Southport from 10am until 4.30pm with an evening of entertainment from 5.30 to 11.30 pm. Tickets cost £1 for either day or evening event, or £1.50 for both. Contact Public Relations Officer, Tango Papa (83) Charity Eyeball, PO Box 13, Southport, Lancs.
- **June 11th & 12th** — Worthing DX & QSL Group 1988 Eyeball being held at the Worthing Rugby Football Ground, Sat: Car Boot Sale & Evening Disco/Supper, Sun: WDX Eyeball, Club/Trade Stands etc Contact: Stuart (WDX 01), PO Box 404, Worthing, West Sussex, BN14 7EB
- **June 19th** — Sheffield Charity Gala & CB Eyeball held once again at the British Steel Sport’s Ground, Tinsley, Sheffield. The venue is approximately one mile from Junction 34 (M1). Contact Derek (Roadrunner), PO Box 275, Sheffield, S2 5HY for further details or to book a stall (Clubs; £5 for 12 foot plot). Admission FREE and there will be displays during the day from The Royal Air Force, Police and local Fire Brigade.
- **June 26th** — North Wales Breakers 1st Annual Eyeball held at the Nova Complex, Central Beach, Prestatyn, North Wales from 11am until 1630hrs, with an evening of entertainment from 1900hrs to 2300hrs. Contact: Ad: Derek (Red Devil), PO Box 35, Prestatyn, Clwyd, LL19 9YH, (or 0745 686564). When writing for details on any of the above, don’t forget a suitable SASE for the Club’s reply. Also, should you send money to book, don’t forget a SASE if you require a receipt.
ACROSS
1 We usually do our best to minimise these on the feeder (8,5)
6 A component often found inside 27 down
7 A noisy extra found on many rigs
8 What 4 down will be in a bad storm
9 Three letters to strike fear into the hearts of many!
10 And two letters that no longer do!
11 This guy may have found an extremely powerful CB very handy
12 Current in short
13 Metering those waves again
18 Capacitance at the top of an antenna
20 A technical term for rig
21 What you would pay for many rigs in their country of origin
22 A cut short transmitter
24 Nice to SEE what's working
25 Very useful, but things we often don't want
28 Hopefully used in conjunction with 22 across
29 The original British term for 4 down
30 You may get stuck with one of these if you're not careful
31 who you buy from.
32 Anyone for soldering?
33 Related to 455 and 10.695
35 O.K. in the States, but not in Britain
37 Antenna principles on waves again!
38 Japanese direction - definitely on the beam
39 Mobile antennas are usually this
40 What many CB conversions are most certainly not

DOWN
1 Virtually all modern receivers don't half mix things up!
2 These appear every half-wavelength on 1 across
3 A little used channel - hopefully
4 An electrical R.F. radiator
5 Negated negative
6 For CB your feeder is usually this
7 37 across must do this, unless you talk one way
8 You don't have one? Naughty! (Unless you're American these days).
9 Incoming signal too weak? Use one of these.
10 A greatly misused royal pronoun
11 Don't interfere with this If you know what's good for you
12 You may connect a wire to this, even at an airport
13 Greek antenna adjustments!
14 Many people talking, but some way slip through
15 Two of these with string may be more private than CB
16 Very few CB set-ups are 100% this
17 33 Across is one of these
18 Two letters for signals you can hear
Radio Rissle had just come back on the air. I once rang the police to point out that a herd of cows had left a field and were ambling along a country road much used by traffic, and I must say that response was — dare one say — thoughtful. Of course, the bovines might have been carrying concealed pirate radio antennae between their horns.

Though public-spirited folks might call the cops in order to explain that Roger Rudechops appears to be erecting something like the Eiffel Tower on the high-rise apartment block nearby, there is really little specific guidance from the authorities. When the US Federal Communications Commission (FCC) began to deregulate CB radio some years ago, complaints about overwhelming amplifiers and other boondoggery were on the whole greeted with the same enthusiasm given to creeping alopecia. CB operators of the clean and green variety were forever writing into the magazines claiming that their informed complaints were being ignored.

Following the statements to the media, the Institution of Professional Civil Servants, the professional association representing RIS engineers, said that one reason for the present creeping radio anarchy is a cutback of personnel, to some 50 per cent over the last three years. When the Radio Investigation Service (RIS) was transferred from the Department of Trade and Industry (DTI) to British Telecom (BT) in 1984, as part of that consumer clattering process known as privatisation, the workload of the RIS required some 300 engineers. These were of course charged with a range of regulatory tasks, only some ten per cent of the total being involved with CB radio etc. Rather less than the ideal 300 were employed at the time of transfer, around 280. But at July 1987, the RIS reportedly employed around 125, which is somewhat less than 300 (check it on your electronic calculator). Also there are rumours that the number may be cut further.

Cynics, a growing fraternity in the old country, may even suggest that the statements re pirate radio are part of a growing antipathy between the Government and the privatised British Telecom which has somehow not won many hearts and souls to the cause. We pass no comment, being appreciative of the problems facing BT management. All the same, the RIS staffing situation could
help explain why the public are being drawn into the pirate radio chasing debate. Every man, or woman, his own RIS inspector? That is, as in the USA, a growing wave of public concern about interference with legal radio, etc is encountered not by honest references to cutbacks in staff and resources in band-chasing, but rather in breast-beating re human wickedness. and ... the anarchists. Of course, Britain today is a sort of vast wonderland of organisations running down employees to the point that they can't do their job properly. Captain Sparx has some personal experiences of this, which could embarrass some pretty well-known companies if mentioned. There is a point where productivity becomes depravity.

Defending the clean up campaign, one of our wisers and betters said in July that no government had done more for the cause of community radio, etc. He did not refer to the fracas of May 1986, when diligent licence applicants suddenly learned, and that through a written parliamentary question rather than a clear statement to appropriate media, that the deal was off. At that time, it was clearly predicted that pirate radio would probably increase, at least in part through ethnic and non-English speaking population groups, feeling that there was no point in waiting further. No-one would suggest, least of all this magazine, that such people are inclined to criminality, but a large number of illegal operators certainly include them. On the other hand, it seems likely that some stations are out to make money, by various means including some advertising. There are some sharp and nasty characters in pirate radio, but they are not necessarily anarchist. If anything, they would deem themselves entrepreneurs of the kind much admired today, and only doing on radio what others have done in the City — a point of view which could be debated.

Even in the USA — where some illegal operators believe that they are running radio beams with green men from Venus, etc — such reversals of policy have not occurred as that experienced here with community radio licensing. Of course, the way things are, it may yet turn out that someone sold the CB frequencies to the Iranians a couple of years ago without telling the President. But if the authorities in Britain want a whole-hearted and informed public co-operation in pirate pursuit, they have to be specific about proposed action, seeing that members of the public do not want to be seen as sneak's, or chumps troubling the police about minor misdemeanours. Theoretically, it ought to be possible to award community radio licences, on a advance basis, before allocating frequencies, i.e. to identify those worthy applicants who will receive licences, and who can therefore get some kind of organisation going — including dummy programme production and income-finding. Captain Sparx, an old hand in the advertising business, can confirm that setting up such an enterprise takes a lot of time. As someone just said the other day, 'There's still a lot of big talk about community radio, man, but there ain't no prospect'.

How bad is the situation in pirate radio? According to a 'Daily Mirror' report (29 July) some 200 illicit stations operate in London alone, twenty to thirty being heard at any one time. If this is true, and who would want to contradict Captain Bob's Merry Team, there should be a certain ease in tracing operators, if the will and resources are present. Of course, the use of remote control transmitters and other techniques can make tracing difficult, but this year has seen an increase in RIS band-chasing of some more than 200 raids on more than seventy stations. Human beings, following the alleged anarchist guidelines, plus their own nasty tendencies, may clobber RIS personnel — but such people stuff up store detectives in the same way, as I saw quite clearly in my years in radio retail business. Illegal radio operators inclined to bruise kindly RIS personnel are probably of the ilk wanting to knock about others, too. Part of the general violent society problem, alas, and no use blaming on pirate radio.

There are overtones of US experience in the present situation here. It was often said that FCC inspectors would often poke rebuking letters, threatening withdrawal of licences, and inflicting modest fines, into mailboxes of offenders rather than wait for the opportunity of personal conversation. The same approach is necessarily taken by noise abatement officers in Britain who could, if present trends continue, find themselves in nose-bleeding situations akin to those suffered by RIS men. When truly big busts became unavoidable in the USA, FCC teams went in, the police around for reinforcement, and a certain amount of hell-raising went on. Also, the media, including the CB press, were encouraged to cover the story, it being thought that big-boots geniuses would be much discouraged by such identification.

I would not say that it worked, and a better idea may be that of an Australian operator who proposed putting punishment of illegal operators on primetime TV. He suggested that removal of both hands with an axe might be a good enough warning to the others. Captain Sparx, having heard about pirate operators over what seems a long life from his Flying Circus days, thinks that it all comes down to one simple idea. Give the RIS the tools and let them finish the job. Also get on with the job of introducing community radio with more urgency. Apart from that, we could do with a revival of church-going and all-round honesty, but that is beyond anything we could recommend.
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DIY RIG PROTECTOR

David Cox offers this simple and inexpensive DIY burglar alarm system

The project to be described here is a very simple burglar alarm system for the protection of CB and radio equipment in the car. It costs less than a fiver to build and can be constructed and installed with the minimum of fuss in a few hours. As the unit uses only one relay, a fuse and a switch, even the complete novice should be able to construct and install the unit without encountering any problems. The following notes on the relay have therefore been included for the novice and may be found to be helpful.

The Relay

Fig 1 shows the internal layout of a basic relay. Essentially, it consists of an electromagnet, a soft iron armature and a set of contacts. When an electric current flows through the electromagnet, a magnetic field is produced which attracts the armature towards the electromagnet. The movement of the armature effectively pushes the pair of contacts together and allows a separate electric current to pass through them. The general purpose of the relay is to allow a relatively low power circuit to control a higher power one. An example of this could be a low voltage signal to operate a mains powered motor, the input signal would be connected to the coil (electromagnet) of the relay and the mains and motor connections would be made to the relay contacts.

As mentioned previously, Fig 1 only serves to demonstrate the most basic kind of relay. This useful component is available in many shapes and sizes, but the main distinguishing factors are:

1) Coil operating voltage and resistance.
2) Number of switching contacts.
3) Contact ratings.

The latter refers to the maximum voltage and current that may safely pass between the contacts.

The relay used in this project is slightly more complicated and a layout similar to the one used is shown in Fig 2. Note that there are now three contacts in the relay. The third contact is used to allow current to pass from the centre contact to either of the other two. This is so because contacts 1 and 2 are joined together when the relay is not in operation, or de-energised, but contacts 2 and 3 are joined only when the relay is energised. From the diagram in Fig 2, it can be seen that when the relay is energised, contact 2 is pushed away from contact 1 and towards 1. As contact 2 is common to both 1 and 3, it is normally referred to as the "pole". Hence, as the pole is connected to contact 1 when the relay is de-energised, this contact is known as the normally closed contact. Its opposite is contact 3, which is labelled the normally open contact. These two terms are abbreviated to n.c. and n.o. respectively. This particular kind of relay is called the "one pole changeover" or the "single pole, double throw" (SPDT). Other types of relay include the double...
Normally closed (NC) contact

Normally open (NO) contact

Pole or common contact

Figure 2. An SPDT relay

pole double throw, (DPDT) type, which contain two SPDT switches sharing one coil. A relay containing 4 switches is also widely available. A diagram outlining the connections made in each of the above relays is shown in fig 3. Fig 4 is a diagram of the actual relay used in this project.

The Circuit (see fig 5)

When the alarm is in operation, but has not yet been triggered, the relay has a positive supply via the terminal block part a, and has a negative connection from the trip wire, which runs from terminal block part c. (see installation). The relay is thus energised and the pole is connected to the normally open contact.

When the alarm is activated, the trip wire is essentially severed and so the relay is de-energised. The pole of the relay therefore has the effect of connecting positive to the horn, via S1b. The horn should then command the attention of passers by.

The alarm is de-activated by the hidden switch, S1, which both disconnects the horn from the unit and connects the relay to an alternative earth. The trip wire will need to be replaced before the unit can be returned to the standby mode.

Construction

Electrical construction is straightforward, requiring just 5 interconnecting wires. Care should be taken when soldering to the relay to avoid connection to the wrong terminals. Also, it is possible that two terminals may be “bridged” by a stray wire or solder and this should be checked against before installation. One of the five terminals on the relay is not used.

The box used for the prototype was one supplied by Maplin and was found to be ideal for this project. However, any box of a suitable size may be employed. It is recommended that the unit should be installed within the cabin of the car. If it is placed in the engine compartment, the housing will need to be weatherproof. Fig 6 shows the component positions in the prototype. The terminal block and the relay were glued into position using a very strong adhesive.

Installation (see figs 6 and 7)

A suitable location was first chosen to mount the switch and the main box. The wiring was then completed using suitably rated and coloured cable. An inline fuseholder and 5A fuse were included between the unit and the battery for safety.

Note that this unit is for negative earth only.

Figure 3. Types of relay

Figure 4. The relay used in the prototype
The Trip Wire

If only one piece of equipment is to be protected, then the trip wire can simply be connected to any metal area on the equipment. Note that there must be no more than one strip wire having only one earth contact. Therefore, a single wire running through, but not connected to various items of value before finally being connected to earth, will protect all of the items in the line.

Extra protection

The principle of operation of this unit is quite simple to define. The unit has a “sensing” input which is normally connected to earth. If this input is disconnected from the earth, then the alarm will sound. Therefore, the unit can be found controlling other aspects of security. One example makes use of a cheap product which can be purchased from Maplins and security shops. That product is simply a length of aluminium foil, ⅛ inch wide, with adhesive on one side. The idea is to stick the foil around a window (about 1 inch from the frame) with one end connected to the unit and the other connected to earth. Now, when the window is broken, the foil is broken as well and the input to the unit is severed, sounding the alarm. Once again, all for under a fiver!

![Figure 6. Inside view](image)

**Components**

<table>
<thead>
<tr>
<th>Item</th>
<th>Maplin Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPDT Switch</td>
<td>FH39N</td>
</tr>
<tr>
<td>SPDT Relay</td>
<td>YX97T</td>
</tr>
<tr>
<td>1⅛/16 in. 5A Fuse</td>
<td>WR15R</td>
</tr>
<tr>
<td>Inline Fuseholder</td>
<td>RX51F</td>
</tr>
<tr>
<td>Terminal Block 5A</td>
<td>HFO1B</td>
</tr>
<tr>
<td>Cable Red/Black Box</td>
<td>XRA4X/XR40T</td>
</tr>
<tr>
<td>Mounting Hardware, connectors, solder</td>
<td></td>
</tr>
</tbody>
</table>

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At last, the bit you’ve been waiting for—the final part of Paul Coxwell’s look at the workings of a rig. This time—SSB!

Having covered just about everything else, we turn our attention to single sideband transceivers this month. SSB is one of the most efficient ways of transmitting because there are no superfluous carriers wasting power and no duplication of information as with AM. Way back at the start of this series we looked at the operational and technical merits of SSB, so go dig out your April 1987 issue of Citizens’ Band and have a quick recap. Just for convenience the outline of SSB is shown in fig. 1 once again. At (a) we have a conventional AM signal comprising the carrier and two mirror-image sidebands. In this instance, the transmitter is being modulated by a two-tone signal, one at 1 kHz the other at 2 kHz. At (b) the carrier has been suppressed leaving a DSB (double sideband) radiation and at (c) we have removed one sideband to leave true SSB (in this case upper sideband).

Generating SSB

The circuitry of an SSB radio is necessarily more complex than either AM or FM sets and the alignment is also more critical. The standard way to generate SSB in CB equipment for a long time has been to use a balanced modulator followed by a crystal filter unit. The basic balanced modulator circuit is shown in fig. 2 but there are many slight variations. The RF input must be at a much greater level than the audio for correct operation and the action of the diodes is to suppress the carrier but leave the two sidebands intact. If the output was connected to a spectrum analyzer you may well see a display intact. If the output was connected to a spectrum analyzer you may well see a display resembling that of fig 1(b), assuming a two-tone input of course. In much newer equipment, the balanced modulator is often yet another “black box” integrated circuit, such as the AN612. A small preset potentiometer must usually be adjusted to null out the carrier as best as possible. The output from the balanced modulator is devoid of a carrier but still contains both upper and lower sidebands and this is where the crystal filter comes in. This filter must really be a good one with sharp attenuation outside the required passband to remove the unwanted sideband. The attenuation at the output of the rig is typically 50 dB or so, or to put it another way with the usual 12 W PEP the unwanted sideband power will be down to nearly a tenth of a milliwatt!

Obviously the frequency of a crystal filter will be fixed, so with the VCO changing frequencies for different channels how do we arrange things? You’ll find that the mixing process used in...
SSB radios is a little more complicated than many AM-only sets. Figure 3 shows a typical arrangement in block form, this particular circuit being used by Uniden in a multi-mode transceiver. Taking straight forward AM and FM first we have the VCO running 10.695MHz below the required channel frequency, thus enabling the oscillator to feed the first mixer in the receiver directly to obtain the first I.F. (this was covered a few months back). The PLL device used in this chassis runs at low frequencies and there is therefore an oscillator running at 15MHz to downmix the VCO output to somewhere around 1 to 2 MHz for the PLL. On transmit, the output from the VCO remains the same and is mixed with the signal from a 10.695MHz oscillator to provide the desired output at 27MHz — all easy stuff so far if you've kept with us through this series.

When the radio is switched to SSB however the 10.695MHz signal is passed through the balanced modulator before reaching the transmit mixer. This results in a double-sideband suppressed-carrier signal as already described which is then fed through a crystal filter to leave just one sideband. When mixed with the constant 16MHz from the VCO the result is a 27MHz SSB emission. The VCO frequency changes to switch channels just as on AM and the balanced modulator and crystal filter always work at the same frequency.

Unfortunately however, we must introduce a complication — how do we select between lower and upper sideband? The output from the balanced modulator is double-sideband and it is the crystal filter that determines which sideband is suppressed so it would seem logical to switch between two filters with slightly different frequency responses, one to remove the USB, one to remove the LSB. This solution is perfectly acceptable from a technical point of view but the good-quality crystal filters needed here are pretty expensive. As with most mass-produced equipment a $5 saving on each set soon adds to the profit when production runs into thousands of units! What actually happens then is that the oscillators are slightly shifted in frequency so that the other sideband is suppressed by the same filter. In fig. 3 when we switch from AM to USB the carrier oscillator shifts frequency to 10.6925MHz (i.e. 2.5kHz down), and when switched to LSB it shifts to 10.6975MHz (2.5kHz up). This results in one or other sideband being located in the passband of the crystal filter, see fig. 4.

So far, so good, but if the output of the filter were mixed with the same VCO signal as on AM the final output would be 2.5kHz too high on LSB and 2.5kHz too low on USB. To get around this problem we just arrange for the VCO to shift by the same amount but in the opposite direction. The easiest way to do this here is to shift the 15MHz oscillator so on USB it goes up to 15.0025 and on LSB it goes...
Figure 4. Offsetting the frequencies for the crystal filter

Figure 5. Applying offsets to a crystal oscillator

down to 14.9975 MHz. This counteracts the offset of the 10.695MHz carrier oscillator resulting in a signal still correctly centred on the appropriate channel.

There are many variations of this idea of course and the exact offsets and mixing depend on the chassis. Sometimes for example, you will find that the oscillators are only shifted in frequency for LSB and the crystal filter response is centred a little higher than the nominal 10.695MHz here. This will be found in many Cybernet export sets.

Figure 5 shows how the offsets may be applied to an oscillator. The transistor is configured as a standard Colpitts Oscillator which by now you are no doubt fed up of seeing! Instead of the crystal being returned directly to ground or through a trimmer capacitor we have a neat little circuit that allows three different inductor/capacitor combinations to be selected. When AM or FM is selected a positive voltage is applied through the mode switch to L4. The circuit is completed via L1, D1 and R5, the diode being forward-biased. This effectively connects L1 and C1 in series with the crystal allowing it to run at one particular frequency, this being fine tuned by adjusting L1. Diodes D2 and D3 are reverse-biased to keep the other sections of the circuit effectively inoperative. On USB diode D2 is forward-biased allowing L2 and C2 to control the frequency and on LSB L3 and C3 set the offset. R5 is necessary to provide a DC path to ground for biasing the diodes and coils L4, L5 and L6 offer a
path to the DC control signals but block RF. The capacitance of the wiring to the mode switch would otherwise affect the oscillator. With our example of above L1 would be set to give 10.695MHz, L2 for 10.6925 and L3 for 10.6975MHz. A similar arrangement is employed to shift the downmix oscillator circuit.

**Automatic Level Control**

Just as we must have limiting to prevent over-modulation on AM and FM so we must have some control on SSB as well. Trying to drive the transmitter too hard will result in the tops of the output waveform being "chopped-off" causing splatter, distortion, and interference. This is often known as "flat-topping" from the shape of the output waveform when shown on an oscilloscope. Some ALC circuits operate just over the A.F. portions of the transmitter but the better systems monitor the RF output and control the gain of the microphone amplifier from the overall RF level. The limiters work in a very similar way to those shown for AM modulators but input is from a rectified sample of RF.

**SSB Power Amplifier Stages**

When we looked at the final RF power output stage we saw that in AM and FM transmitters it may well operate in class C, i.e. biased below cut-off. This is fine where there is no amplitude variation with modulation (FM) or where the modulation is applied at the final amplifier and not before it. Because the SSB signal is generated in its entirety before the output stage however the power amplifier must be completely linear in operation, otherwise distortion is introduced. This means that Class C amplifiers are definitely out and the biasing must be carefully adjusted so that the transistor is operating completely linearly. Refer back to part 3 of this series for more details about transistor biasing.

**Receiving SSB signals**

To receive an SSB signal, we must re-insert the missing carrier. The oscillator that performs this function may be called a Beat Frequency Oscillator (BFO) or Carrier-Insertion Oscillator. Just as we generated SSB at a fixed frequency so we re-insert the carrier at a frequency that is independent of the channel selected. The easiest way of doing this is to apply the BFO signal to the I.F.
amplifiers, and in most modern CB equipment this will be at 10.695MHz. It is quite common for multi-mode transceivers to use double-conversion 10.695MHz/455kHz on AM and FM but only single-conversion to 10.695MHz on SSB. A crystal filter on SSB reduces the receiver bandwidth from the 6 or 7kHz on AM to around 3kHz. This ensures that only the correct sideband is received and that any neighbouring signal is suitably rejected.

The circuitry is just like that we saw earlier when we dealt with receivers in general. Now a neat little dodge that is sometimes found; remember the crystal filter used in generating SSB? Well, it's sitting there doing nothing useful during reception and the receive filter would be doing nothing during transmissions so why not use the same filter for both and save some money? That's exactly what many chassiss do in fact, including the Uniden one we examined earlier on. The loop oscillator is shifted up and down by 2.5kHz depending on whether upper or lower sideband is selected so that the correct part of the signal "fits" through the crystal filter. Continuing with that same design, the 10.695MHz carrier oscillator is also used during reception to re-instate the carrier at the SSB detector, following the I.F. amplifiers. The same ±2.5kHz offsets are applied to counteract the 15MHz loop signal changes.

Now we have just one more little item to consider — the fine tune or clarifier control. This is absolutely essential for SSB reception because the exact carrier insertion frequency must be adjusted to match the incoming signal. If the carrier is inserted at too low a frequency then the voice will sound high-pitched on USB or low-pitched on LSB. Similarly if the carrier signal is too high then voices will be high on LSB and low on USB. It is the difference between the inserted carrier and incoming sideband that governs the pitch of reproduced signals and the clarifier must be adjusted to precisely match the carrier removed at the transmitter. Because the I.F. centre-frequency and bandwidth are fixed by the I.F. transformers and crystal filter it is usual to tune the signal by varying the VCO frequency, thus shifting the incoming signal within the I.F. "window" or passband. The VCO frequency is adjusted by varying the loop oscillator, a typical arrangement being shown in fig. 7.

A varactor diode is inserted in series with the crystal which is wired into the usual Colpitts-style oscillator. R1, R2 and VR1 form a potential divider which has power applied only during reception. The DC voltage is coupled via D1 and L1 to the varicap diode which shifts the frequency by a small amount as the clarifier is altered. L1 is the usual choke to allow a DC path but to block RF. When the radio is switched to transmit power is removed from the VR1 network and applied to the second potential divider chain R3 and VR2. The potentiometer is a preset on the circuit board which is set during regular alignment of the rig. Diode D2 is now forward-biased and D1 reverse-biased.

The overall result is that on receive the exact frequency is determined by the position of the fine tuning control but on transmit it is fixed by VR2. If the transmit frequency were allowed to be altered with the receiver it would make two-way communication difficult at times — as station A tunes in Station B he also shifts his transmitter frequency slightly so that when he next transmits station B has to re-tune him. Station B has now altered his transmit frequency so that when he next talks station A has to re-tune and so on. Controls allowing the transmit frequency to be altered (apart from the channel selector) are also illegal in many countries, so radios designed to be within the regulations must be made this way. In England of course SSB is not allowed at all on CB but you may still find an odd fine tuner, often labelled Delta Tune — these two affect only reception.

**Frequency Shift Controls**

Whilst masquerading under different names these all do the same thing — allow the complete radio, transmitter and receiver, to be shifted up or down by about 5 or 6kHz allowing inter-channel working. They won't be found on legal radios in any country but are ever popular on multi-band multi-mode sets. Figure 8 shows the typical wiring of a shift control; it is wired after the fine tuning with its receive/transmit diode switching so that it is operative during both reception and transmission. Enough said.

**Conclusion**

Well folks, that just about wraps it up for this series. We've looked at receivers, transmitters, modulation, demodulation, AM, FM, SSB, switching, regulators, PLLs, indeed just about everything. Obviously there was much more detail for each section but we've been going quite long enough at it. If you stuck with us throughout and managed to understand everything along the way you're a good few points up on your buddies. Maybe now you've gained sufficient interest to warrant going out and buying a few books and service manuals to learn some more — and there's plenty to learn.

Many thanks to you all for making it through my pages of waffle and may your oscillators remain free from drift. Next month to round off we'll have a CB In-Depth Quiz, just to see how much you've remembered. So long!

---

**Figure 8. Shift control wiring**
So where he fit? Has he gone down cocker? Has he run off with lady D? Has he gone pee-pee? Will we he? Eh? Eh?

No he wasn't!

He awakened a symphony from the godfather's seat!

I won't! don't cock it up!

We can figure plenty other places to tie the knot!

So, our hero hurries up to neuronal core his establishment "say you brain, you was godly also. 'cos you done' a number on his y-fronts! If he had any y-fronts....

Lussekake vuus! I got this phi ph in the old proprietor, any name of our heroine y bike can't cure it!

Us C.B.44! Supposed to stick together! "Gotta help ol' Tucker. All dead had come first touch!

So in our upsettery hasdon we figure maybe one of them plan, mostly those hour come up with some medicum! so you get to ask him? ok!

Tak

Not even if I was to be personal centerless.

Meanwhile, back on earth....

Kablonkee who?

Idiots!

Where'd you think his Thunderbolts come from?

Boy what if ol' Zeus got a sand of that KROO OF PASS!
A CB HOLIDAY IN NORWAY

Motoring in Norway with your CB radio? Snoopy, our Norwegian correspondent, comes up with some extremely useful information.

If you are holidaying in Norway, I would strongly recommend that you take your rig along. Particularly so with your new PR27GB rig. As a native, I have, on occasion, had the pleasure of receiving calls from UK breakers camping in Norway. I have even been able to give some advice and make new friends by eyeballing, as a result of the call.

CB regulations in Norway are as follows. 40 legal channels from 26.965 to 27.405MHz (CEPT channels). 4 watts is the maximum power level on both AM and FM modes and there is no restrictions on antennas length!

We use channel 3 as our calling channel (AM/FM 26.985MHz). Our early regulations were for 23 channels AM, so today you will find most FM modulation in the upper half of the band and AM mostly in the lower half.

Right; you are on holiday in Norway - how do you make contact with the natives? Call on channel 3. The majority of the operators have a fair command of the Queen's English. A few might be a little shy to take you on to start with so if there's no response, you could think about breaking in on a running contact.

The Norwegian word for 'break' would be 'kort' (short), so, by repeating 'kort' briefly, the response in Norwegian would be 'kom i kort'. (Yes, you've guessed it he meant to say 'Come in, shorty!') Easy? It's not all Greek!

Well, now you have established your first contact with the aborigines! From now on, it is up to you and your Queen's (or Maggie's) English. You will find us all terribly Anglophile.

Apart from channel 3 (AM/FM), you may also find channel 9 used for FM calls. At one time it was considered an emergency channel but this may differ from place to place. To my knowledge, there are no regular monitoring services for Mayday calls in operation. Your safest bet would be channel 3.

Now some points of general information. Your point of entry would probably be by car ferry to Oslo, the capital, or to Stavanger, or Bergen on the West Coast. Bear in mind 'though that the districts east of Oslo have no scenic interests whatsoever. The hills, the highlands and the fjords are all to the north-west of Oslo.

Up in the highlands you will find excellent OTHs for your DXing. The Eyelids ORM can be dreadful at times!

Some general advice on motoring in Norway now. All major roads are good, even for caravans. When planning your daily mileage, be warned — you will hardly ever make it! Too much to see, stops for taking photographs and, in the fjord districts of western Norway, you may have to queue up for ferry crossing in the summer peak season. The best time to travel is from May to mid-September. Peak traffic is usually to be found in July.

As far as climate is concerned, dress exactly as you would for summer at home. You are not going to Siberia! The main unit of currency is the NOK (Norwegian krone same as 10p). Please note that Danish or Swedish coins would hardly be accepted. A final word of warning about money and cost. In this country, even the vegetables are loaded with VAT and prices for groceries are very high. In order to avoid paying through the nose, I would advise you to stock up well, a little before leaving home. Fill up your boot with whatever you can to keep body and soul together.

Camping sites are very well organised, also with cabins for hire but, in addition, this country is sparsely populated. There are only 4 million of us on 125,000 square miles! So, if you find a place you fancy away from farmland, park off the road and enjoy your elbowroom. Have a nice time away from the madling crowd.

NB. It is always a good safeguard, when visiting any foreign country, to check with the relevant authorities as to the ever-changing rules and regulations on using or bringing in CB equipment.
osh, March already and I thought it was only the end of January! Never mind the weather, it will soon be summer again — and then Christmas!

Well, for the past two months, I've been bugging you all silly with the review of the new range of Scania trucks. Sorry, but it is supposed to be 'Truckstop' and is meant for truckers to read. It seems that I was sadly mistaken, when I recently said that I had only got five or six readers. It's really amazes me, that most people I speak to, not only like — but LOVE to read my page. Wonders will never cease. Righto, back to business.

Last month, if the editor printed it, I mentioned a long-lost copy of mine, being Nigel, Bell-Boy, alias The Printer. He was having a moan at me, that although he loves reading my columns, he is a bit dis-appointed that I only ever mentioned truckers and forget about those people, engineers, sales reps, consultants, etc, who traverse our motorways daily. Well, I suppose I could always say that this is supposed to be the truckers' page. I won't 'thought, what I will say is that I haven't forgotten you all. I would LIKE to, 'cus I've found reps especially, to be one of the worst kind of car drivers. But I'd better not go too far into that one. Actually, a lot of the people I mention from time to time, really drive cars and small vans. One of my favourite 'gay' truckers, actually uses a very small car to deliver computer bits all over the country. So there, Nigel. That's my excuse and I'm sticking to it. Yet another car driver gave me a call the other day. He is one of my biggest fans I reckon. Many many moons ago, on attending an eyeball at Cheltenham, he found me, and asked ever so nicely if I would mind having my photo taken with him. (I take awful photos, but he said they turned out great. It's a wonder I didn't break the camera!) Anyway, as I've never mentioned him before, best wishes to Peter, Senator from Bristol, and don't forget to send me a copy of the photo! Whilst on the subject of eyeballs, anyone who wants to meet me (and probably live to regret it), I shall be attending the Mercia QSL Club of Coventry's Eyeball on Sunday June 5th at Caludon Park, Coventry — just off junction 2 of the M6. I'd be pleased to see all or any of you there!

Senator's moan — well, he reckons there is a severe shortage of inexpensive overnight accommodation for reps etc, near our motorways, and that he doesn't really feel welcome if he goes into a truckstop with beds, in his suit. I suppose that is understandable, most truckers feel that you are all on huge expense accounts and can afford hotels. But Peter says there ought to be more cheaper priced bed and breakfast places nearer to motorway exits. So, if anyone out there is thinking of buying a guest house, there's a tip for you.

Another quick mention to Toy Boy, from Barston who comes up to Coventry most days. He made me an offer that I very nearly didn't refuse. Also to a member of the Mafia Squad from Rainy City (Manchester), who asked me why I hadn't done a review of the new ERF 'C' Series. Well, as I told you, Mucky Duck, if ERF deemed to send me their press releases, I would certainly give their truck a mention. Mucky Duck reckons (the fool) that they compare most favourably with the new Scania and Volvo ranges. Whilst I'm at it, I'd like to thank Scania and Seddon Atkinson, who were the only manufacturers to take heed of my request for Press releases. If any of the other 'drivers' are reading this, then please pass it on.

The Lady Truckers Club, run by Ilona Richards is planning another Sponsored Hitch to raise money for Great Ormond Street Children's Hospital. This year, Ilona plans to send a Teddy Bear on a sponsored hitch. He will set off on Monday 16th of May and will travel around the U.K. in trucks and will record the details of every lift, so that when, and if, he returns, we will know the exact mileage he has covered. All members of the Lady Truckers Club will have a sponsorship form in their possession. They will be asking people to have a go (50p a go) at guessing the total mileage that Teddy will travel. There will be some good prizes to be won. Just in case Teddy gets lost, Ilone will be going with him to hold his hand. So you lot out there, if you see a lady trucker about, stop her and ask if you can have a couple (or more) guesses. All the proceeds are going to Great Ormond Street Childrens Hospital. So get your money out and have a go. If you don't have any contact with Lady Truckers (aren't you the unlucky ones) then write to Ilona and pledge your monies, at The Lady Truckers, 1 Horton Avenue, Stretton, Burton Upon Trent, Staffs De13 ODP.

Well I hate to have to say this all over again, but I'd love to hear from you all. Unfortunately, I've gone (at long last) and found myself a part-time job, so I won't be on the rig that much now. (Or is it — fortunately?) But I still love receiving and reading your letters. I've had three recently, which unfortunately I haven't got space to mention them here, but I promise to do that next month. If you can tell me a funny story about one of your mates, I'd love to embarrass them for you, and I promise not to mention your name, if you don't want me to. Come on folks, drop me a line and let me know what you want to read about. Saves me a lot of embarrassment. Write to me, Brandybird, c/o PO Box 158, Coventry, CV6 6BD and please enclose a stamped addressed envelope if you would like a reply. That's about it for another month, stay lucky lads and lasses, truck 'em easy and most of all stay safe.
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