



FIVE AND NINE PLUS

THE OFFICIAL NEWSLETTER
OF THE
APPLEDORE AND DISTRICT
AMATEUR RADIO CLUB

Club Callsigns: G2FKO and GX2FKO
Web Site : www.adarc.co.uk

CLUB'S OFFICERS

President	Terry Adams	G4CHD
Chairman	Mike Wogden	G4KXQ
Vice Chairman	David Boyes	2E0KVJ
Secretary	John Lovell	G3JKL secretary@adarc.co.uk
Treasurer	Alan Fisher	2E0EUZ

Committee	Stephanie Ebbans	M1CVJ
	Ben Louder	2E0FTZ
	David Harris	2E0IXK
QSL Manager	John Lovell	G3JKL
Web Master	John Lovell	G3JKL
Exam Secretary	John Lovell	G3JKL
Editor	Terry Adams	G4CHD terrywho35@gmail.com

December 2024

EDITORIAL



Well, at long last this will be my **final time as Editor of the Club 5&9 Newsletter.**

Now is an ideal time for me to give my keyboard a rest and for someone with fresh ideas and approach to take over. However I'll keep everyone in suspense as to who will be taking over from me but all will be revealed in the January Newsletter!! I'm really not sure when I started but the earliest Newsletter I could find is for April 2003 which since it may bring back fond memories for some members, I've included in this Newsletter. That makes **it just over 20 years** I've been Editor!! So a big thankyou to everyone who has contributed over those many years.



Our **Club Meeting this month is of course our Club Xmas Party which is on Monday, December 16th.**

As always, **other halves are most welcome** and as per last year, members are asked to bring food for themselves so ensuring allergies etc are catered for. Tea/coffee, plates, cutlery and napkins will be provided by the Club together with festive background music and Dave's famous Xmas Quiz.

However this year there will be a free Raffle - the Club will provide the prizes (see pic opposite) and everyone attending will be given an equal number of free raffle tickets and **guaranteed at least one prize!**- a sort of festive gesture from the Club!



So it only remains for me on behalf of your Committee to wish you all a very Merry Christmas and a Happy Healthy New Year

Terry (G4CHD)

CLUB MEETINGS

Meetings are held at the **Appledore Football Social Club** starting at 7.30pm for 8.00pm. Visitors always welcome.

For further information, please contact the Secretary John. Presently, Meetings take the form of a general Natter Night over a cuppa, however once details are known of any talks etc, an announcement will appear in the Club Newsletter.





LOCAL REPEATERS/GATEWAYS

Frequencies are those transmitted and received by the Repeater

GB3DN VHF FM/C4FM Repeater - Stibb Cross

Tone 77Hz (for analogue FM)
TX 145.6375 RX 145.0375
Keeper Tony G1BHM
Default Digital Connection : Wires-X Southern Fusion
<http://www.g0rql.co.uk/gb3dn.htm>

GB3ND UHF DMR Repeater - Holsworthy Beacon

TX 439.7375 RX 430.7375 colour code 1
Slot 1 local RF Slot 2 SW Cluster
Keeper Tony G1BHM

GB7FB UHF DMR Repeater - Bideford

TX 439.475 RX 430.4750 Colour code 5
Slot 1 Local RF/DoD Slot 2 SW Cluster
Keeper Drew M0MFS

GB3LZ VHF FM/C4FM Repeater - Winkleigh

Tone 77Hz (for analogue FM)
TX 145.6625 RX 145.0625
Digital Connection : Wires-X Southern Fusion - fixed
Keeper Simon G4MQQ

GB7LZ UHF DMR Repeater - Winkleigh

TX 430.9125 RX 438.5125 Colour code 1
Slot 1 DMR Southern Fusion Slot 2 Local/CQ UK/DoD
Keeper G4MQQ

MB6DT VHF Fusion Gateway - Barnstaple

Frequency 144.8125 MHz.
Gateway Keeper Darren (2E0LVC)
Operational

GB7TG - UHF DMR Repeater - Wembworthy

TX 430.9750 RX 438.5750 Colour Code 7
Default Connection : Slot 1 Local/DoD Slot 2 SW Cluster
Keeper G7SOJ

GB3NX VHF FM AllStar Repeater- Holsworthy Beacon

Tone 77Hz
Repeater TX 145.5875 RX 144.9875
Connection SW AllStar Network (SWAN)
Keeper G1BHM

GB3BU - UHF DMR Repeater - Bude

TX 430.9625 RX 438.5625 Colour Code 1
Default Connection : Slot 1 Local/DoD Slot 2 SW Cluster
Keeper G1BHM

LOCAL NETS

Weekday Zepp FM Net: Mon/Tues/Thurs/Fri :
145.450MHz - 4pm - 5pm
Wed via GB3DN - 4pm - 5pm
Net Control : Len (M0SXY)



2m Elevenses FM Net: Mon/Wed/Fri :
11 - 12.00 noon via GB3DN
Net Control ; Mike (G3PGA)



Friday Night 2m Net: Friday : 145.450 FM,
8 - 9pm

Sunday Top Band Net: Sunday 1.860 MHz
9.30 - 10.15am
(LSB - 32W pep max)

2m SSB Nets: Wed: 8 - 9pm 144.260MHz
USB SSB (Vertical polarised)

Sun: approx 10.30am (follows
Top Band Net)
144.260MHz USB SSB
(Vertical polarised)

Sunday FM Net: Sunday: 11 to noon via GB3DN
Net Control : Chris (G0FJY)

Note :- FM Nets which use GB3DN as shown above
will continue despite the recent changes.
GB3DN is disconnected from the Wires-X/
Southern Fusion Room just before the listed
start and end of each FM Net

REPORT ON OUR OCTOBER MEETING

? On the Air by Mike G4KXQ

This was another of Mike's fascinating talks particularly as we didn't know what the ? Was !!

In fact it was Bunkers on the Air which as Mike explained is becoming extremely popular by both activators and collectors.

Mike's talk was well illustrated with a Powerpoint display in which he explained how despite originating in the UK, it is fast becoming a World wide activity including Belgium, Czech Republic, North Macedonia and Slovenia. To give an idea as to its popularity, the following shows some UK statistics for last year :-



UKBOTA – Some Statistics



- UKBOTA can boast having over **2500+** bunker locations within the United Kingdom.
- Over 2000 UKBOTA activations, over **1000** of these have been unique activations.
- With **150** different activators, that's an average of **13** bunkers a day.
- Over **20000** QSO's logged by the hunters.
- Approaching **1000** separate award certificates issued since October 2023

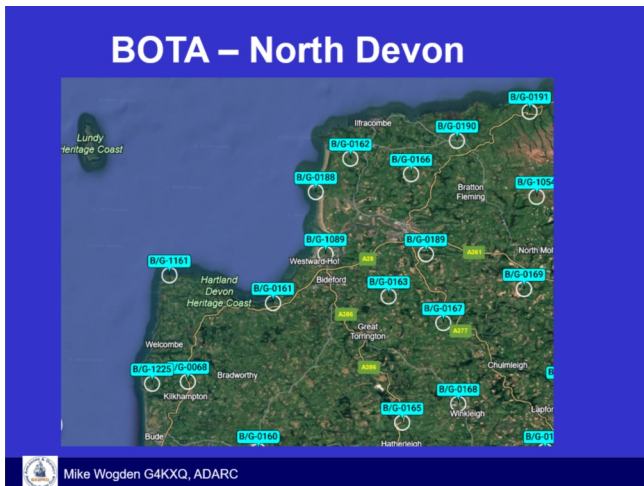
Mike Wogden G4KXQ, ADARC

Activation is valid providing you are operating within a 1km radius of the actual Bunker and is an ideal way to do some /P operating and if



you're lucky, deal with the resultant pileup!

Mike produced the following map which shows how many Bunkers there are in our locality :-



It was very pleasing to see such a good attendance for Mike's talk who were treated to a most interesting and well researched talk. Many thanks to Mike for all his hard work in preparing this talk.

COPY OF ONE OF MY EARLIEST CLUB NEWSLETTERS

This is included on the following pages which no doubt brings back fond memories and thoughts of Club members who are sadly now silent keys.



So that's it from me - my final attempt at a Newsletter - enjoy the read

Terry (G4CHD)



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CLUB

Club Callsigns: G2FKO and GX2FKO

CLUB'S OFFICERS

President	Ken Symonds	G0DLC	01237 423763	email: ken.symonds@ic24.net
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	Colin Foley	G0XCF	01237 425844	email: colinfoley@g0xcf.freemove.co.uk
Editor	Terry Adams	G4CHD	01237 470829	email: terry@torridge-u3a.fsnet.co.uk

April, 2003

EDITORIAL

It is with much sadness that your Committee has to report the untimely death of Dave Burt, our QSL Manager. Burt was a long standing member of the Club and will be greatly missed. Our condolences go to his family. A personal note of remembrance by Ken (G0DLC) is included in this Newsletter. Your Committee agreed that the Club make a donation to 'Cancer Research UK'.

At last month's AGM, John (G0UNB) stepped down from the Chairman's role to take a well earned rest. On behalf of the Club, your Committee would like to thank John for all his hard work in the past. A Report on the AGM can be found later in this Newsletter.

Finally, members are reminded that your **annual subscription is now due** - so make your Treasurer happy! Enjoy your Newsletter 73s Terry, G4CHD

LOCAL SKEDS

Slow Morse: Thursdays, on 144.060 MHz at 1930
Run by Mike, G4NCU.

Zepp Net: Weekdays, on 145.45 MHz at 1600

HF Net: Thursdays, on 3.765 at 1615
Run by G4NCU/M0BRB

NEW CLUB QSL MANAGER

Colin (G0XCF) has kindly agreed to step in and to act as our Club QSL Manager.

CLUB MEETINGS

Unless otherwise stated, Meetings are held at the Appledore Football Social Club starting at 7.30pm for 8.00pm. Visitors are always welcome.

April 21st	Modulation Bandwidths by Terry (G4CHD)
May 19th	Talk by ex QE2 Radio Officer by Phil Williams (G3YPQ)
June 14/15th	Special Event Station - Appledore Maritime Museum
June 16th	Broadband and PSK31 by Mike Hammond (G3PGA)
July 21st	BBQ
August 18th	Quiz by Dave (G0PGK)
September 15th	Homebrew Morse and Me - by Mike (G4NCU)
October 20th	W3EDP Aerial by Terry (G4CHD)
November 17th	Bring and Buy
December 15th	Xmas Party
January 19th	North Devon Repeater/Worldwide Sat Radio TBC
February 17th	Talk by John Wilson (G3PCY) topic TBA
March 15th	AGM

For further information, contact Brian Jewell M0BRB

LOCAL REPEATERS

2m Stibb Cross Repeater (GB3DN)

User: Listen 145.6375MHz - Transmit 145.0375 MHz.
Access 1750 Hz Tone or 77 Hz CTCSS.
Repeater keeper is Tony G1BHM.

70cm Handy Cross Repeater (GB3ND)

User: Listen 434.95MHz - Transmit 433.35MHz
Access 1750Hz Tone (Timeout 8 minutes). No CTCSS
Repeater keeper is Jeff G4SOF

REPORT ON MARCH AGM MEETING

14 members attended the AGM.



John (G0UNB) opened the meeting with his Chairman's Report in which he thanked the Club Officers and Committee for all their efforts.

Syd (G0LMU) then gave the Treasurer's Report and presented the Club's accounts which showed an improvement in our bank and building society accounts from £293 to £371.

Brian (M0BRB) followed with the Honorary Secretary's Report stating that there had been 5 Committee Meetings with 60% attendance during the previous year, and that the membership now totaled 30 including 2 honorary members. Brian also reported that the Appledore Maritime Museum had requested that the Club set up and operate another special event station this Summer.

Election of Club Officers came next. John (G0UNB), as reported in the Editorial, indicated that he wished to step down from the role of Chairman, but was willing to serve on the Committee. Dave (G0PGK) was proposed and voted in as the new Club Chairman. This left the position of Vice Chairman vacant, and it was with some surprise (pleasantly) that I found myself, Terry (G4CHD) voted in as Vice Chairman. I will also retain the role of Newsletter Editor unless anyone else would like to give it a try. Brian (M0BRB) remains our efficient Honorary Secretary, and Syd (G0LMU) was coaxed into continuing as Club Treasurer. Syd has served the Club well in this capacity, having been a founder Treasurer back in 1987.

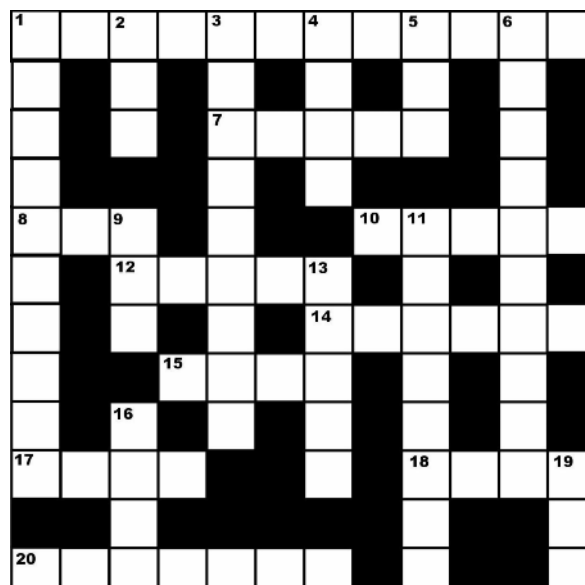
The Committee was pleased to retain Ade (M1DBZ) and welcomes John (G0UNB) as stated above. In addition, the Club is glad to welcome Colin (G0XCF) back onto the Committee and also to welcome Graham (G1ZTT) for the first time onto the Committee. I'm sure Colin and Graham will bring fresh ideas to Committee Meetings which will help to ensure that our Club remains strong and healthy.

Finally, John (G0UNB) agreed under coercion, to continue as Auditor of the Club accounts.

Terry G4CHD

CROSSWORD

by Terry Adams G4CHD



ACROSS

- 1: Changes AC voltage levels
- 7: Casts light on things
- 8: Should ideally be unity
- 10: Atmosphere
- 12: In Parallel
- 14: Twist
- 15: Quality Sound
- 17: Type of feeder
- 18: Charged atoms
- 20: Indicator

DOWN

- 1: Extendable
- 2: Matching device
- 3: Acid
- 4: Basic Law
- 5: Type of FET
- 6: Wave bounce
- 9: Report
- 11: Strong lightweight metal
- 13: Semiconductor switch
- 16: Japanese aerial?
- 19: Solidify

IN MEMORY OF DAVE BURT

Dave was a member of our club in it's very early stages, though never a licence holder he had a very active interest in all types of radio, owned a very Hi Fi system, had many contacts in Europe and with the Irish Short Wave Soc. He never spoke of his own personal problems though he had more than his fair share, he had an engineering background and had worked in the now defuncted G.P. Precision Engineering Company in Bideford. Dave would always try to encourage the Club to run Special Event Stations and contributed a substantial sum of money to the Club which used some of it to equip it with a Caravan and Radio, one could always be sure that he would turn up to any outside event. But he will always be associated with his being our QSL Manager who could always be relied upon to record and answer all contacts made to the Club he will be much missed.

John G0UNB

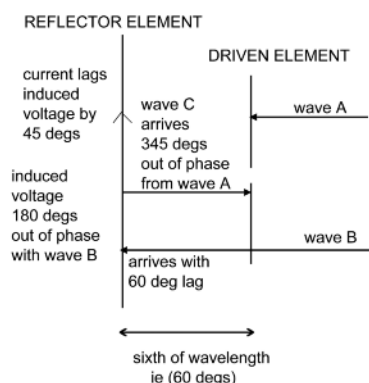
TERRY'S TECHNICAL TOPIC

by Terry Adams (G4CHD)

Many years ago I decided to build a Zygi Beam from a Rad Com design. It consisted of both a driven and reflector element which were folded into a rectangular shape to make it compact. Each element was constructed from two sizes of aluminium tubing such that one slid inside the other for adjustment purposes.

Now for the bit of theory!!

Consider a conventional 2 element Yagi Beam with a sixth of a wavelength (ie 60 deg phase equivalent) separation. Referring to the diagram, wave B arrives at the reflector 60 degs lagging behind the arrival of wave A at the driven element.



A voltage is induced in the reflector which is 180 degs out of phase from the wave and which in turn causes current to flow in the reflector. This current would be in phase with the voltage had the reflector been cut to a resonant length, but since it is cut longer, then the current will lag the voltage by an amount dependent upon the extra length and diameter of the reflector. (ie the reflector possesses inductance causing the lag - **CIVIL**)

The current in turn causes the reflector to radiate.

Assuming that the current lags the voltage by 45 degs then this radiation from the reflector has a phase lag compared with the arrival of wave A at the driven element, of a total of $60 + 180 + 45 = 285$ degs. It then takes a further time to reach the driven element - equivalent to a further 60 degs lag to give a final phase difference between the effects of A and B at the driven element of $285 + 60 = 345$ degs.

Hence the effect is additive in this preferred direction. It can similarly be shown that for a wave from the rear direction, the effect would be subtractive - thus giving a front to back ratio.

Returning to my attempts to build the Zygi Beam, my problems began when I could not get the correct diameter aluminium tubing and being ignorant of the importance of element diameter when detuning a reflector element, I blindly carried on!! Needless to say, the performance of my version of the beam left much to be desired and it finally ended up stacked away in the garage!

It was several years later and after much book reading that I realised what I had done wrong!!

Ah well, they say you learn by your mistakes!

VERBAL DIARRHOEA?

Contribution from Brian (M0BRB)

On February 12th, 2002, D.H Rumsfeld is reported to have said the following :-

There are known knowns
There are things we know we know
We also know
There are known unknowns
That is to say
We know there there are some things
We do not know
But there are also unknown unknowns
The ones we don't know
We don't know ???

Can anyone tell this simple soul what on earth the man was talking about? Perhaps he was looking at an RAE paper!!

Brian M0BRB

LAST MONTH'S CROSSWORD

Across: 1: Reverse Biassed, 8: Series, 9: Ice, 10: Atom
12: Data, 13: RIT, 15: Gate,, 16: Dot, 17: Can, 20: Ace
21: Ray, 23: Big, 24: Hifi, 25: Bit, 26: Egg

Down: 1: Reciprocal, 2: Vane, 3: Reactance, 4: Emf
5: Insulating, 6: Swr, 7: Electrolytic, 11: Mega
14: Tone, 18: AC, 19: Dry, 22: BFO, 23: Bug

That's all for this month folks 73s Terry (G4CHD)