



# 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](http://www.adarc.co.uk)

## CLUB'S OFFICERS

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November 2020

## EDITORIAL

Welcome to another Newsletter during these difficult times.

*I have been informed by Mike (G3PGA) that the funeral of Steve (G6SQX) has now taken place attended by just the family.*

*Steve's widow, Annie would like to thank all ADARC Club members for the messages, cards and best wishes that were gratefully received and were very much appreciated.*



After last month's successful talk, Graham, (M1GRA) has kindly agreed to give a further Zoom talk this month entitled 'Visual History of Hacker Radio' which promises to be another most entertaining talk and one not to be missed.



Our December Meeting will be be our **virtual Christmas Party using Zoom** when you can bring your own mince pies and preferred tipple and enjoy a pleasant chat and **Christmas Quiz** by Dave (G0PGK).

Keep safe and keep healthy

Terry (G4CHD)

## CLUB MEETING

Due to the present Covid 19 pandemic, **ALL** meetings scheduled to be held at the Appledore Football Social Club have been **CANCELLED** until further notice

Until Meetings are reinstated a programme of 'virtual meetings using Zoom' has been arranged :-

Date	Topic
Nov 16 <sup>th</sup>	Zoom Talk 'Visual History of Hacker Radio' by Graham (M1GRA)
Dec 21 <sup>st</sup>	Zoom 'Christmas Party' - Quiz, etc - bring your own mince pies and drinks

It is hoped to add further Zoom Meetings so if you want to give a talk, please contact any Committee member.

## IMPLEMENTATION OF MEASURES FOR LIMITING EXPOSURE OF THE GENERAL PUBLIC TO ELECTROMAGNETIC FIELDS (EMF)

Many thanks to Don (G0RQL) for bringing to my attention an **OFCOM document** describing proposed measures which would also affect radio amateurs. The prospect is quite frightening and baffling as to how it could be implemented and checked.

If you fancy some 'light' reading go to :-  
[https://www.ofcom.org.uk/data/assets/pdf\\_file/0017/204/056/emf-implementation-consultation.pdf](https://www.ofcom.org.uk/data/assets/pdf_file/0017/204/056/emf-implementation-consultation.pdf)  
or for a more understandable presentation, go to :-  
<https://www.youtube.com/watch?v=Zm0sUhhk6VY>

## OCTOBER ZOOM MEETING

### ZOOM TALK ON 'COLLECTING OLD RADIOS' by **Graham (M1GRA)**

Graham is well known for his YouTube channel 'Radiocruncher' and so it was no surprise that Graham's presentation was very well researched and professionally presented. There were plenty of suggestions of useful websites and publications to help anyone wishing to start collecting old radios followed by many working examples of old domestic transistor radios which



Graham demonstrated - many of which brought back memories from one's childhood. An excellent and entertaining talk for which we thank Graham for all his hard work.

If anyone **missed the presentation** and would like to watch a recording, let me know and I will e mail you a link to Google Drive where I have uploaded the mp4 file.

### LOCAL NETS

**Zepp FM Net:** Mon/Tues/Thurs/Fri :  
145.450MHz - 4pm - 5pm  
Wed via GB3DN - 4pm - 5pm

**2m Elevenes FM Net:** Mon/Tues/Wed/Thurs/Fri :  
11 - 12.00 noon  
Mon/Tues/Thurs 145.475MHz  
Wed via GB3DN  
Fri start 145.475MHz & then possibly qsy to another band

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

**2m SSB Nets:** Wed: 8 - 9pm 144.260MHz  
USB SSB  
Sun: approx 10.30am (follows Top Band Net) 144.260MHz  
USB SSB (Vertical polarised)

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

### LOCAL REPEATERS

**2m Stibb Cross Repeater (GB3DN)**  
<http://www.g0rql.co.uk/gb3dn.htm>  
User: Listen 145.6375 MHz - Transmit 145.0375 MHz.  
Access 1750 Hz Tone or 77 Hz CTCSS  
Repeater keeper is Tony (G1BHM)

**Fusion/C4FM/WiresX Gateway (MB6DT)**  
Frequency 144.8125 MHz.  
Keeper Darren (2E0LVC)

**Fusion/C4FM/WiresX Gateway (MB6DN)**  
Frequency 144.825 MHz.  
Keeper Drew (2E0FQE)

## CROSSWORD

Many thanks to Stuart (M1FWD) for this month's Crossword.

The answers are in next month's Newsletter. Good luck !

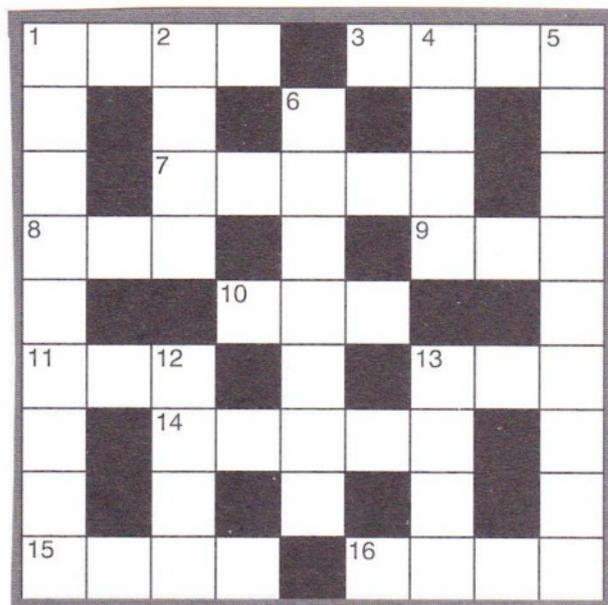


### CLUES ACROSS

- 1) Kilo Hotel Two (KH2) island (4)
- 3) Unwanted interference at audio frequencies (4)
- 7) ? Vincent island, Juliet Eight (J8) (5)
- 8) Evergreen shrub, Ruta graveolens (3)
- 9) Any primate of the family Pongidae (3)
- 10) The smallest increment of data on a computer (3)
- 11) Meadowland (3)
- 13) ? Stubbs, English actress born 1937 (3)
- 14) Small settlement in the parish of Birsay, Mainland Orkney (5)
- 15) The glazed sliding light of a garden frame (4)
- 16) ? and that, various unspecified examples of things (4)

### CLUES DOWN

- 1) Excessively talkative, especially on trivial matters (9)
- 2) Large recess at the eastern end of a church (4)
- 4) The ninth letter of the Sierra Victor (SV) land alphabet (4)
- 5) In radio communication, a set of these is produced around a carrier, equally spaced at distances from the modulating frequency (9)
- 6) D-STAR and Fusion are examples of ? Voice modes (7)
- 12) Mobile antenna system for use with Yaesu transceivers (1,1,1,1)
- 13) US state, capital Salt Lake City (4)



Last month's answers :-

ANSWERS ACROSS: 1) Mars 3) skip 7) Nepal 8) quo  
9) Poe 10) jig 11) elm 13) gut 14) Ivory 15) scan  
16) cell

ANSWERS DOWN: 1) Marquesas 2) Reno 4) kelp  
5) potential 6) epsilon 12) mica 13) gyre

## SUDOKU PUZZLE

The aim is to enter a number into each cell so that any column, or any row, or any block of cells contains all numbers from 1 to 9

Terry (G4CHD)

				7				3
	2		1	6	8			4
	5			9		6	7	
							9	8
		5				2		
2	1							
3		2			9			7
	9		3	4	2			1
	8				7			

## THE I PRO HOME VERTICAL MULTI BAND ANTENNA

I have had some doubts as to the effectiveness of the Sigma 360 vertical antenna at my QTH particularly because of it being mounted so near to the ground as opposed to Fred (G0EOB) who has his mounted in a comparatively elevated position which works well for Fred. I therefore decided to try a centre fed vertical antenna which like the Sigma 360, was not too high and therefore hopefully acceptable to neighbours. I therefore recently decided to take the plunge and purchased an I Pro Home antenna which will now be described.



The manufacturer Pro Antennas describes the antenna thus :

*'a centre fed vertical dipole covering the HF bands between 40m & 6m. The high performance design uses efficient capacity end loading techniques to provide a low noise solution optimising performance, size and flexibility'*

*'This is a slim, low windage profile antenna designed for use where space is limited and a low visual impact is important. There is no need for radial grounding wires which means that it is perfect for small gardens'*  
*Measuring just 5m in height, it can be mounted less than 1m above ground so minimising the visual impact. The I-Pro Home is omni-directional so positioning is not important so long as the signal is not blocked by buildings or trees.*

*The 3.5kg antenna is easily lifted on and off the ground pole mounted fibreglass insulator rod when not in use. This means that the antenna can be out of sight and protected from storms and high winds.*

*The I-Pro Home is a non-resonant design which presents a very user friendly broadband match. Most modern transceivers have built in ATUs that will provide a match for 20m - 10m operation. An external ATU may be required for 40m and 30m bands and for transceivers without an internal ATU.*

*The band coverage includes 40m, 30m, 20m, 17m, 15m, 12m, 11m, 10m & 6m. Note 40m efficiency is down relative to the other bands.*

The antenna is just 5m in height and in my case mounted only 1m above ground. The antenna comes with a couple of guy rings and I have guyed the antenna just above the feed point.



As can be seen from the above photo, the antenna is not in the best position, the lower horizontal capacity hat being only just over a metre away from and parallel to the return coax to the shack!

The antenna feeds a LDG Z11 Pro auto ATU via a 15m length of RG8 which is earthed and thence via 60m of RG213 back to the shack. Despite the antenna's close

