



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	Committee	Dave Cottle	G4XWQ
Chairman	John Lovell	G3JKL		Mike Wogden	G4KXQ
Vice Chairman	Steve Smith	G6SQX		Alan Fisher	2E0EUZ
Acting Secretary	Alan Fisher	2E0EUZ		Graham Bailey	G1ZTJ
Treasurer	Ray Hunter	M0TLO		Keith Luxton	G0AYM
			QSL Manager	John Lovell	G3JKL
			Web Master	John Lovell	G3JKL
			Exam Secretary	John Lovell	G3JKL
			Editor	Terry Adams	G4CHD
					terrywho35@gmail.com

November 2018

EDITORIAL

This month's Meeting on **November 9th** is our Autumn Bring & Buy which will be another opportunity to either part with or acquire some bargains. It's also a chance to catch up for a natter with friends over a cuppa so hopefully see many of you there.



I am most grateful to Mike (G4KXQ) for another of his most interesting articles which is included in this Newsletter as are also a couple of articles by Steve (G6SQX) on Internet Radio which will be the subject of our January Meeting next year to be given by Alan (2E0EUZ).

At a recent Committee Meeting, Darren (2E0LVC) announced that for personal reasons he would have to step down as Club Secretary and the Club is therefore most grateful to **Alan (2E0EUZ) for stepping in as Acting Secretary until our AGM next March.**

Finally, may I remind everyone that next month's Meeting on **December 10th (a week earlier) will be our Christmas Party to which family and friends are most welcome.** The format will be very similar to last year ie no charge and with food provided, but it would be much appreciated if you could bring along a suitable Raffle Prize. So looking forward to seeing everyone for a festive last Meeting of the year.

So hope everyone enjoys the read

Terry (G4CHD)

CLUB MEETINGS

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

Nov 19 th	Autumn Bring & Buy
Dec 10 th	Christmas Party (note - is 1 week early)
Jan 21 st	Internet Radio by Alan (2E0EUZ)
Feb 18 th	EMC in Amateur Radio by Chris (G0FJY)
Mch 18 th	Club AGM
Apl 15 th	TBA

For further information, contact the acting Secretary, Alan (2E0EUZ) - see above for contact details.

MW LISTENING

Steve (G6SQX) and Dave G4XWQ have been building/restoring MW receiving loops which we will be taking along to the Appledore Club Bring & Buy Meeting. Following a report from Jurgen Waga in Berlin, Steve had a look to see what other stations were operating on 1566kHz. As well as a Dutch station near the Hague, there is also a station at Guildford which is part of the Premier Christian network. Steve has been monitoring BBC Somerset and is interested to see what other signals can be received after dark. Steve would be interested to hear of signal reports from anyone else.

70cm Net: Sunday, via **GB3ND**, 11am - noon
Available on Echolink node 221334

Top Band Net: Sunday **1.860 MHz**
(LSB - 32W pep max) 9.30 - 10.15am
Contact Dave (G4XWQ) for details

NETWORK RADIO

Many thanks to Steve (G6SQX) for the following article which nicely preempts the talk to be given in January by Alan (2E0EUZ).

Network radio has been around for sometime now with Echo link probably the most widely used by Radio Amateurs and Skype for general use.

Over the last couple of years a new Voice over internet Protocol (VOIP) system has emerged that simulates hand held radios or walkie-talkies with the press to talk function (PTT).

Zello is the most popular application and allows users to talk to each through open public channels or encrypted private ones.

It is also possible to configure Zello to act as a RF gateway and a good example is how the "Southern Ireland repeater network" have been linked and is enjoying a resurgence of use.



As with CB Network radio is open to all so channels that have an RF link on to the Amateur bands are restricted to licensed users, otherwise it is open to all.

There are popular moderated channels such as "Network Radios Ch00" which has a mix of operators and a lively mix of topics.

Network radio can be accessed through mobile phones, PCs and a selection of hand held radios that can access the mobile data networks or Wifi.

Because the VOIP has a maximum of 40kb bandwidth the quality of the audio is better than mobile phones and has a greater dynamic range - so watch out for feedback!!!

Alan (2E0EUZ) has had a Network radio for a while and will be giving a talk at the February Appledore meeting and there will be a workshop at the Exmoor Radio Club January meeting on the 29th at the Blackcock Inn near Molland. We have set up a local channel to test kit and have a chat.."Exmoor Radio Club G2LV"

Following the popular use of Network Radio during the recent Scout Jamboree we are looking at setting up PMR gateways on an inter school network as part of the science and technology curriculum so the youngsters can interact and get a better understanding of the part radio has in our day to day lives.

As with the interest in CB we hope that the interest will encourage people to become involved with Amateur Radio. With Christmas coming up we can rest assured that the well known Amateur Radio retailers will have plenty of suitable kit in stock.

Steve (G6SQX)

LOCAL REPEATERS

70cm Handy Cross Repeater/Echolink (#221334) Gateway (GB3ND)

User: Listen 433.35 MHz- Transmit 434.95 MHz
Access 1750 Hz Tone (Timeout 4.25 mins)/ 77 Hz CTCSS
Repeater keeper is Jeff (G4SOF)

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)

70cm Twitchen (nr South Molton) Analogue Repeater (GB3SF)

User: Listen 430.9375 MHz - Transmit 438.5375 MHz
Access 77Hz CTCSS
Repeater keeper is Steve (G6SQX)

APRS Digipeater (MB7VE)

Frequency 144.800 MHz
Repeater keeper is Steve (G6SQX)

USEFUL TIP ON USING ZELLO

Steve (G6SQX) has sent me the following useful info:-
My phone has a ptt button for the radio function which is ideal but any button can be mapped to the ptt. Some versions may have a blue add button. The screen button can then be disabled if desired.

As of v3.5, this function is no longer available for the iphone.

Apple requested we remove the feature, stating volume button mapping violates their terms of use. If you feel this function is useful and would like it reinstated, please contact Apple Support and voice your opinion.
<https://www.apple.com/support/>.

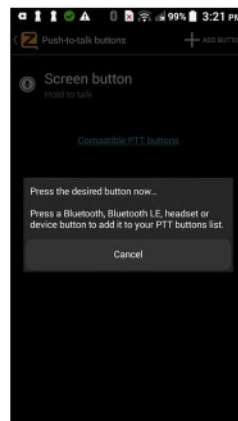
Mapping a phone hardware button for push to talk (PTT)

We've simplified the configuration steps for adding accessory and mapping device buttons beginning with Android version 3.67+.

On Android devices, you can map any hardware key as a PTT key. Please note that the talk screen must be in the foreground for the button to work.

To map a hardware button on Android:

1. Go to the Menu
2. Tap **Options**
3. Tap **Push-to-talk buttons**
4. Tap **+ADD BUTTON** at upper right corner. The following screen displays:



Press any hardware button on your device to use for PTT. In this example, the Volume Up button was pressed.

CROSSWORD

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

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

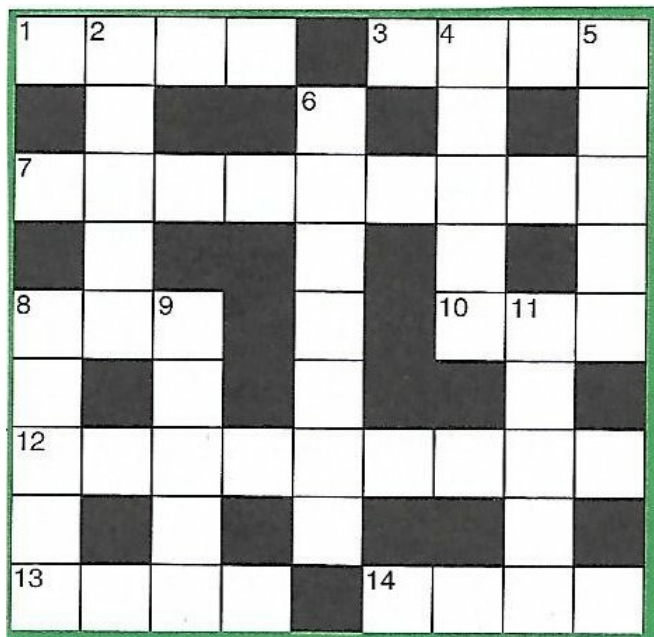


CLUES ACROSS

- 1) Five Victor (5V) land (4)
- 3) Elegantly and stylishly fashionable (4)
- 7) The modulation of a radio wave by variation of its ? (9)
- 8) 1965 movie starring Ursula Andress (3)
- 10) Any beer other than lager, stout or porter (3)
- 12) The modulation of a radio wave by variation of its ? (9)
- 13) Area in an aerial's radiation pattern where the signal cancels out almost entirely (4)
- 14) British light submachine gun (4)

CLUES DOWN

- 2) ? Winfrey, American talk show hostess (5)
- 4) Juliet Alpha (JA) land vehicle manufacturer (5)
- 5) The eighth longest river in the UK (5)
- 6) The third largest county in England by area (7)
- 8) Echo Alpha (EA) land (5)
- 9) To force out – for example, air from the lungs (5)
- 11) A narrow horizontal projection from a wall, cliff or other surface (5)



Last month's answers :-

ANSWERS ACROSS: 1) capacitor 6) glass 7) bus
8) byte 10) fawn 13) nit
14) abate 15) Frankfurt

ANSWERS DOWN: 2) alloy 3) cyst 4) tibia 5) resin
8) Banff 9) Tatra 11) water
12) sack

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**

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

Terry (G4CHD)

PODCASTS REVISITED

Many thanks to Mike (G4KXQ) for the fascinating update given on the following pages on what is available on Podcasts. Something else I must look into !!

Enjoy this month's Newsletter

Terry (G4CHD)

PODCASTS REVISITED

It's been about 18 months since I gave my presentation on Podcasts and Webcasts so I thought I'd provide an update on my Apple IPod at present:

 <p>Ham Nation</p> <p>Bob Heil & Friends</p>	<p>Share in the excitement and importance of ham radio - from tossing an antenna wire into a tree allowing you to talk to the world, to the importance of ham radio operators in time of disasters with hosts Bob Heil, Gordon West, George Thomas, Don Wilbanks, Valerie Hotzfeld, Amanda Alden, and Dale Puckett.</p> <p>Available to download every Thursday morning as both an audio and video podcast.. Sponsored by ICOM so it's a bit of a ICOM fan show.</p> <p>Rating ****</p>
 <p>ARRL</p> <p>The Doctor is In</p>	<p>ARRL. The Doctor is In</p> <p>ARRL The Doctor is In is a podcast based on the popular QST magazine column "The Doctor is In." Hosted by QST Editor in Chief Steve Ford, WB8IMY, and columnist Joel Hallas, W1ZR, the podcast is a lively 20-minute discussion of a wide range of technical topics. Sponsored by DX Engineering.</p> <p>Rating ***</p>
<p>Ham Radio Workbench</p>	<p>Ham Radio Workbench Podcast</p> <p>This Ham Radio podcast deep dives on making, DIY, electronics, and technical topics of interest to the amateur radio operator. Your hosts George KJ6VU and Jeremy KF7IJZ discuss current developments in ham radio while introducing listeners to a plethora of topics and skills such as test equipment, 3D Printing, Arduino, Raspberry Pi, and more.</p> <p>Recent episodes include;</p> <ul style="list-style-type: none">• Listener Projects with Arduino and 3D Printing• Solar Power• Introduction to Repeater Building• Introduction to Networking and Security• Portable Repeaters for Emergency Situations <p>Rating *****</p>



Amateurlogic.TV

AmateurLogic.TV was on of the first video podcast and celebrated its thirteenth anniversary during October. Watch each episode on Youtube using smart televisions Amazon Firesticks etc Presented by three or four presenters. Topics covered on the recent episodes included :

- Tommy builds the SDR Pi.
- Emile discusses the Internet of Cheap Old Things.
- George exposes Harmonic Distortion.
- Jim joins the party and shows us the interesting projects he's been working on.

Sponsored by Icom, MFJ, Heil Sound & Gordon West Radio School.

Rating ****



GB2RS

The RSGB weekly news read by Jeremy G4NJH

Rating ****



Icqpodcast

The ICQ Amateur / Ham Radio Podcast is a free fortnightly radio talk style podcast for amateur / ham radio operators by amateur / ham radio operators.

Each episode we review the current news, discuss a technical feature and the hobby in general, and hear from our many listeners from around the world.

Recent episodes include;

- Introduction to BYLARA and Komunika Power HF-PRO-2 Portable Antenna Review.
- Hamfest 2018
- The Classic Bird 43 Wattmeter

Rating ****






Soldersmoke Podcast

An amusing rambling of two radio amateurs Bill and Pete N6QW. Covering all topics from Homebrew construction to QRP etc. Normally released on a monthly basis . This months topics include;

- Giants of Radio
- Pete on 15 Meters
- Bill on 60 Meters with the uBITX
- Pete's Sudden and Heath Filter Transceivers
- Cubesats to orbit! To the moon! And to Mars!
- Bill rebuilds his 2 meter "Ray-Gun" Quad (for Farhan's Cubesat)
- Homebrewing Variable caps and stockpiling NP0
- My "by ear" Minimal Discernible Signal Technique
- Thoughts on Direct Sampling SDR and the Radio Art

Rating *****

 <p>QSO TODAY WITH ERIC GUTH, 4Z1UG</p> <p>QSO TODAY IS AN INTERVIEW PODCAST BETWEEN THE MOVERS AND SHAKERS OF AMATEUR RADIO</p> <p>WWW.QSOTODAY.COM</p>	<p>QSO Today Weekly interview podcast about amateur radio or ham radio with the movers and shakers of the hobby by Eric 4Z1UG Recent guests include;</p> <ul style="list-style-type: none"> • Episode 222 - Dr. Greg Latta, AA8V, a renaissance man, a master homebrewer who designs and builds the old tube rigs and fabricates the beautiful metal enclosures that encase them. • Episode 221 -After running maritime mobile from his 40 foot sailboat for many years, Arnold Ziegel, W2HDI, switched to power boats and all of the challenges to amateur radio brought on by the new boat. • Episode 220 - Mark Rosenberg - 4X1KS - A consummate fixer and homebrewer. <p>Rating ***</p>
 <p>TED RANDALL SHORT WAVE - MEGACYCLES QSO Radio Show www.tedrandall.com</p>	<p>Amateur Radio QSO show QSO Radio Show featuring conversations, interviews and information about Amateur Radio. Presented by Mark Brown N4BCD Don Wilbanks AE5DW Ted Randall WB8PUM and David KG4WXW</p> <p>Rating ***</p>
 <p>TX factor</p>	<p>TX Factor TX Factor is a series of high definition TV shows covering all aspects of the hobby of amateur radio - a professionally produced programme, now into its fourth year. Recent episodes included</p> <ul style="list-style-type: none"> • Parrots and Sharks • The SDR Attraction • BBC Workers' Playtime <p>Rating *****</p>