



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

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November, 2015

EDITORIAL

Welcome to another Club 5&9 Newsletter.

This month's Meeting on November 16th promises to be another one not to miss with John (G3JKL) giving a talk on the **Lundy Expedition to operate MX0LDG**.

Next month's Meeting is our **Club Christmas Party** which will, as per previous years, be **free of charge** but **donations of any additional food goodies and/or Raffle prizes will be gratefully received**.

There are a number of interesting snippets from various members this month but as always I would be very appreciative of any articles that members might like to submit for publication.

Not a great deal else to comment on - so enjoy the Newsletter. Terry (G4CHD)



FOR SALE

The following items are offered for sale by Syd (G0LMU) who can be contacted via :- syd.arnold@btinternet.com

- Daiwa PS-304 DC Power Supply *
- Vectronics Corp VC 300 DLP Antenna Tuner *
- Yaesu FP-707 PSU (broken switch) *
- Heath HN-31 Cantenna Dummy Load \$
- Yaesu FT-747 GX HF Transceiver *
- Icom HF Receiver \$
- Yaesu YH-77 Headphones

* Photocopies/\$ Original instructions provided

CLUB MEETINGS

Meetings are held at the Appledore Football Social Club starting at 7.30pm for 8.00pm. Visitors always welcome. For further information, contact Alan (M6CCH) - details in the top panel.

- November 16th** "MX0LDG Operations from Lundy" by John (G3JKL)
- December 14th** "Club Christmas Party" (open meeting)
- January 18th** "Radio Quiz" by John (G3JKL)
- February 15th** "Whistles to Radios - Police Communications" by Alan (M6CCH)
- March 21st** "Club AGM"
- April 18th** "QSLing - Traditional to the latest methods of confirming a QSO" by John (G3JKL)

REPORT ON THE HOLSWORTHY RADIO RALLY

My thanks to Mike (G3PGA) for the following report :-

The rally was very quiet but nevertheless enjoyed by all who attended. Yours truly operated the repeater table and donations amounted to £100 with Pam Helliwell donating a couple of books to the Repeater raffle. Geoff (G4SOF) won the bottle of scotch and Barry (G0EYF) won one of the books. Raffle ticket number #25 won the other donated book but so far has been unclaimed and is being held by Don (G0RQL).



REPORT ON THE OCTOBER MEETING

‘History of Bideford’ by Peter Christie

It was very pleasing to welcome some members’ family and friends on the night.



After an initial problem with the source of photographic images which delayed the start of the talk such that unfortunately a few members had to leave early, everything finally was up and running.

Peter’s talk covered Bideford’s history from the Vikings to relatively recent times with a wealth of interesting facts and photographs/images which were fascinating. Peter’s depth of knowledge on the subject and his enthusiasm provided those present with a most interesting and informative evening. Finally, a number of Peter’s books on Bideford were offered for sale and were eagerly snapped up by many of those present.



A huge thank you to Peter for all his hard work in producing such an entertaining talk and I think everyone came away with a better understanding of the fantastic history that Bideford has.

Terry (G4CHD)

NEWS FROM JEAN (G0BYL) & KEITH (G0AYM) FROM SUNNY SPAIN

Hola from sunny Villa Ventura - blue skies - temp 24 deg. Hope all is well with you all and enjoying good weather over there at the moment methinks. All well here - we arrived after a good trip to find that there had been an earthquake 3.5 on the rk scale the same day. The epicentre was about 4 kms away but as the house was still standing and nothing had fallen off the shelves we fared well. House was fine, not too many weeds, roses in bloom and the oleanders and the bougainvillea grown a lot and covered in bloom and the scent from the winter jasmine is overpowering at times. Had a huge storm Saturday evening when we had continuous sheet lightning and 3 inches of rain in 1½ hrs. Have managed to repair the antenna and have made a few contacts on 15/14/10 and 40 so all seems ok. I try to call on 14.160 ~185 at 1600 uk time (not weekends). I have a post flu jab lurgy !!



73s Keith (G0AYM) & 88s Jean (G0BYL)

LOCAL SKEDS

- Zepp Net:** Mon, Tues, Thurs : 145.450 MHz 4pm
Wed via **GB3DN** - 4pm
- 6m Net:** Wednesday, 8pm, **51.480 MHz FM**
- HF Net:** Friday at 3pm **7.145 MHz ± qrm**
- Slow Morse:** Run by **Dave (G3YGJ)** every Tuesday and Thursday, 7pm clock time on **145.250 mode FM**.
- 70cm Net:** **Sunday, via GB3ND, 11am - noon local time.**
Available on Echolink node 221334

LOCAL REPEATERS

- 70cm Handy Cross Repeater/Echolink (#221334) Gateway (GB3ND)**
User: Listen 433.35MHz– Transmit 434.95MHz
Access 1750Hz Tone (Timeout 4.25 mins)/ 77Hz CTCSS
Repeater keeper is Jeff (G4SOF)
- 2m Stibb Cross Repeater (GB3DN)**
<http://www.g0rql.co.uk/gb3dn.htm>
User: Listen 145.6375MHz - Transmit 145.0375 MHz.
Access 1750 Hz Tone or 77 Hz CTCSS Repeater keeper is Tony (G1BHM).
Yahoo users group for general chat and banter at :-
<http://groups.yahoo.com/group/GB3DN/>

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.**

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

Terry (G4CHD)

CROSSWORD

This month's Crossword is by Stuart (M1FWD).

The answers will be published in next month's Newsletter. Good luck !



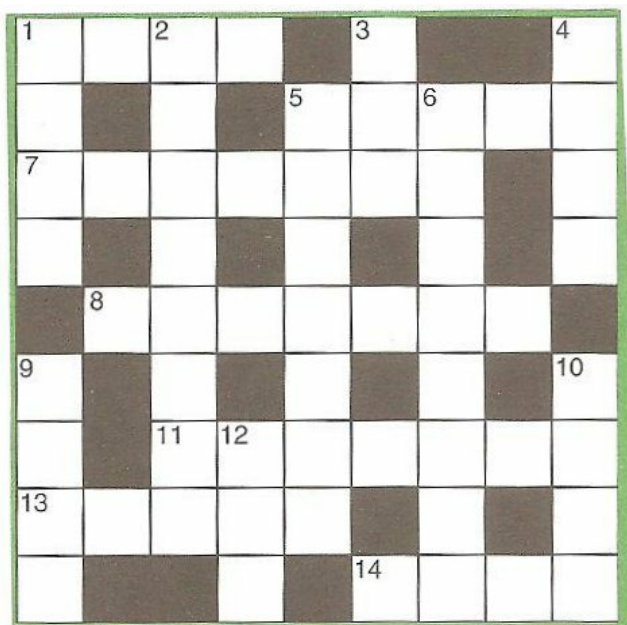
Clues Across

- 1) Small barrels (4)
- 5) The length of cable extended when a ship rides at anchor (5)
- 7) A round dance with a sliding movement in march or polka time (3,4)
- 8) Devices for suppressing electrical or sound waves of frequencies not required (7)
- 11) Less long (7)
- 13) A deep sound of pain, grief or disapproval (5)
- 14) Greek god whose Roman counterpart was Cupid (4)

Clues Down

- 1) In geometry, a quadrilateral figure symmetrical about one diagonal (4)
- 2) Foxtrot Romeo island located at the northern tip of Five Romeo island (8)
- 3) In golf, a hole in one (3)
- 4) Seabird similar to a gull but usually smaller and with a forked tail (4)
- 5) Base for radio work (7)
- 6) A person controlling a machine (8)
- 9) In computing, a factor of two to the power of thirty (4)
- 10) Membrane behind the cornea of the eye (4)
- 12) The name of the computer in the film 2001: A Space Odyssey (1968) (3)

Last month's answers :-



Across 1) hello 6) piezo 7) diode 9) coil 10) loud
14) voice 15) Korea 16) lasts

Down 2) Edison 3) open 4) lek 5) Pot 8) dulcet
11) oval 12) ski 13) arc

Stuart (M1FWD)

SILENT KEY - RON BIGNEL (G0BGL) ONE OF THREE FOUNDER MEMBERS OF ADARC

I am grateful to Ken (G4NUJ) for informing me of the sad news that Ron (G0BGL) has recently become a silent key. Condolences to his family.

The following is a brief history written by Ken :-

We both took the RE in the early 80s with Ron passing the Morse test before me. I was a bit slower being older! We used to meet in the Coach and Horses in Appledore to talk about radio and was joined by Peter (G4ZSX) who had passed the Morse earlier. We then decided to start a Radio Club as at the time there was a lot of interest in radio because of CB. The club was formed in 1985 with just a few members.

We set up several special event stations - the best was the opening of the Bideford bridge. We also set up several scout stations at the Northam Hall where Ron was the driving force in erecting antennas and doing most of the donkey work. He also held the position of Chairman of ADARC for a few years. He was a definite asset to the Club, although he was not too keen on operating.

Unfortunately he lost interest in the later years after having a heart bypass and asked me sell his radio equipment which I did reluctantly.

I kept in touch over the years, but unfortunately his health was going worse. I last saw him in hospital about 3 weeks ago.

He was a great asset to the starting and running of the Club in the early days and a very good friend - he will be sorely missed.

Ken (G4NUJ)

SILENT KEY - ALBERT SMITH (G0PBC)

My thanks to Mike (G3PGA) for informing me that Albert Smith (G0PBC) passed away this week and will also be sadly missed.

He was a past member of the Club and was responsible for tutoring members in CW. Condolences to his family.

A METHOD TO REMOVE THE EXTRANEOUS NOISE FROM AN HF RADIO SIGNAL

by Steve Hemenway (VY1SK)

A technique which this station has used for many years, requires two radios. One radio tuned above or below the signal desired.

Our studies have shown that most noises broadband in nature, and can be found above and below the desired signal. Our technique uses simple algebraic subtraction of the audio signal recovered from the secondary receiver. We then have the original signal, S+N. Then we use N only from the second receiver. The results that we're after are S

+ N – N = S only. This gives a near FM quality on the H F bands.

The simplest procedure is to use a simple audio transformer with two primaries. These transformers can readily be obtained from the local radio supply house for a few dollars.

The technique then is to provide signal plus noise from receiver number one, and noise only from receiver number two. Our primary winding number one is S+N, and primary winding number two is N only, BUT this signal is inserted 180° out of phase with winding number one.

Now comes the problem! These two signals must be very carefully balanced in amplitude, or the technique will not work properly.

We recommend against the use of a single turn potentiometer, (270° rotation), but rather use a 10 turn, helical potentiometer, such as the Bourns Helipot ®. This, then gives you 3600° of rotation, allowing you easy access to the resolution needed for excellent usage.

A problem with this technique is that it requires the secondary receiver. That can present an untenable cost to the average operator. We had at one time a FLEX 1500 SDR receiver ® committed to this task.

A great little receiver, and it works very well being utilized as receiver number two only. But the cost, and size, even though very small, prevented usage in a mobile configuration.

How do you overcome this cost problem? The most apparent answer was through the use of cheap SDR Dongles. These are found on Ebay, Amazon, and many other sources.

Relatively inexpensive SDR to USB general coverage receivers are readily available from a variety of sources for less than USD\$ 20 to 30 dollars.

As we have to use a laptop, or a good grade tablet to control this system, a USB Port should be readily available. As every laptop, and good grade tablet will have a stereo connector, usually 3.5 MM, this permits the use of two SDR radios from a single laptop.

One procedure was to modify the program used for two band satellite communications. That is to allow tracking, or automatic frequency steering of the secondary receiver.

This based on wherever the first receiver is tuned. A 'hit and miss' programme to be sure, but we are slowly working the bugs out of this technique.

More technical data to follow. ie; part numbers for the two or three components necessary.

Steve Hemenway (VY1SK)

So that's it for this month - I hope everyone enjoys the read

Best 73s de Terry (G4CHD)