



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	John Lovell	G3JKL	
Vice Chairman	Steve Smith	G6SQX	
Secretary	Alan Fisher	M6CCH	01237 422833 Email: fisheralan@gmail.com
Treasurer	Mike Wogden	G4KXQ	
Committee	Graham Bailey	G1ZTJ	
	Dave Cottle	G4XWQ	
	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	

May, 2016

EDITORIAL

Welcome to another issue of the 5&9.

First I must apologise for the last minute production of this issue but Chris and I have been away for nearly a fortnight visiting family and friends in Yorkshire and Scotland and have only just got back this weekend.

This month's Meeting is a general Natter Night - a perfect opportunity to come along and have good old chinwag with friends over a cuppa and a biscuit - see you all there.

The Club has been most fortunate to receive a generous donation of radio equipment including a base ICOM 7410 and an Icom D-Star



handset, head-phone, desk mike and lots of other items from Bernard Ager (M6BRZ).

Bernard is an 84 year old ex-RN Submariner living in Dorset but will soon be moving to Exeter. He is a keen CW fan but is now unable to operate because of worsening arthritis and wanted his radio and accessories to go to a good home. Bernard's daughter has just moved to Appledore, and we hope that he will be able to visit us on one of our Club nights when he will be given a very warm welcome.

Alan (M6CCH) and Steve (G6SQX) went down to Dorset



to collect the gear and take down an aerial for Bernard and it is hoped to have the equipment on display this Club night.

The Committee is meeting next Wednesday to discuss this year's events etc so more details in next month's 5&9.

Finally, for those who have not yet rejoined, please remember that Club subscriptions are due by the end of May.

Enjoy the Newsletter

Terry (G4CHD)

CLUB MEETINGS

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

May 16th Natter Night

For further information, contact the Secretary, Alan (M6CCH) - details in the top panel.

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

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

REPORT ON THE APRIL MEETING

QSLing - TRADITIONAL TO THE LATEST METHODS OF CONFIRMING A QSO

by John (G3JKL)

Many of us are familiar with the old traditional QSL card method of confirming a QSO but John's talk gave a most interesting insight into the more modern 'electronic' methods. The talk was very well illustrated with a Powerpoint presentation with plenty of slides



showing some old paper QSLs as well as the modern software packages which integrate electronic QSLing and logging.

I think everybody present was fascinated to see how QSLing has changed over the years and a big thank you to John for producing such an interesting and well researched talk.

Terry (G4CHD)

SILENT KEY - JIM BALL (M3VGM)

The 5&9 Newsletter has historically not reported all the Silent Key announcements in the Club but I feel an exception is needed to say our fond farewells to Jim (M3VGM) who has been such a larger than life contributor to the Club.

Jim passed away recently and leaves a huge vacuum from always having a cheeky smile to providing your Editor with photos for the 5&9.

Jim's poor health seemed to start some time ago at an Abbotsham Special Event station when my XYL Chris had to run him home. However, Jim always had a smile and despite numerous attempts to get an HF antenna up at his QTH, Jim was happy to regularly join the Zepp 2m Nets.



Jim's support and cheery disposition will be sadly missed and our thoughts and condolence go out to his family and friends.



CROSSWORD

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

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

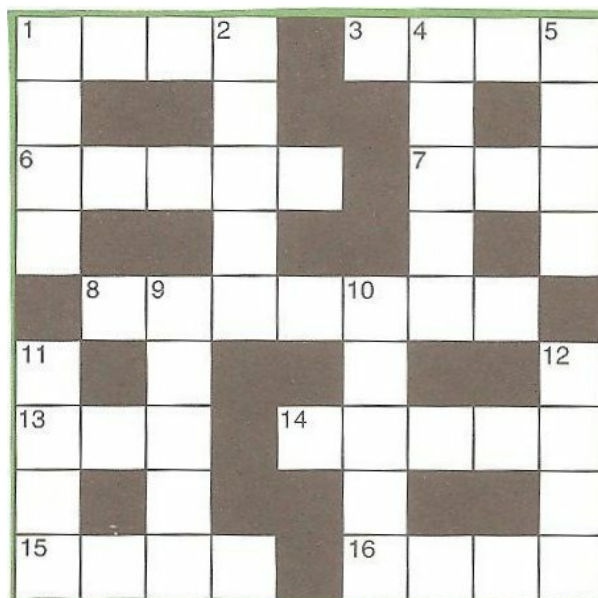


Clues Across

- 1) TV Freeview channel 12 (4)
- 3) A complete circuit for a current (4)
- 6) TV Freeview channel 20 (5)
- 7) Former telegraphy code for 'T' (3)
- 8) Victor Kilo Nine November (VK9N) island (7)
- 13) Native of Hotel Kilo (HK) land (9)
- 13) Habitual spasmodic contraction, usually of the facial muscles (3)
- 14) Solid ? - Using the electronics properties of solids (e.g. a semiconductor) to replace those of valves (5)
- 15) TV Freeview channel 25 (4)
- 16) Adjust (e.g. a radio receiver) to the particular frequency of the required signals (4)

Clues Down

- 1) *Raphus cucullatus*, large extinct flightless bird (4)
- 2) ? Bernstein, composer of the music soundtrack for the film *The Magnificent Seven* (5)
- 4) An eight-pin valve base (5)
- 5) TV Freeview channel 11 (4)
- 9) Franciscan friar (1287-1347) whose 'razor' principle states that, in problem-solving, the simplest answer is usually the best (5)
- 10) Musical composition for eight voices or instruments (5)
- 11) U.S. State, capital Salt Lake City (4)
- 12) River rising in Mid Wales and joining the River Severn south of Worcester (4)



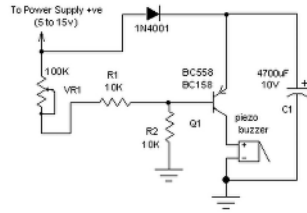
Last month's answers :-

Across 1) imam 4) coif 7) operation 8) mean 10) cell
12) Colombian 13) owns 14) east

Down 2) maple 3) moron 5) ovine 6) final 8) Macao
9) Allen 10) cable 11) loads

CIRCUIT FAULT - PSU FAILURE ALARM

I wonder how many people deduced what was wrong with the circuit opposite - The quoted analysis is as follows so please let me know if you agree or have a different view.



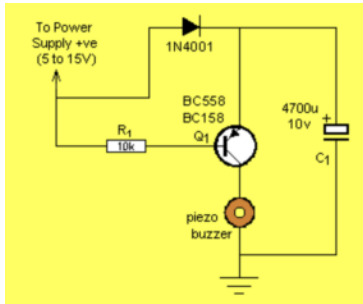
The fault is R2. It forms a voltage divider with VR1 and R1. The voltage on the base will always keep Q1 turned ON.

Q1 is a PNP transistor. To turn the transistor ON, the base voltage must be 0.7v below the supply rail. The pot (VR1) and R1 form a voltage divider with R2 and to see why this circuit will not work, we need to remove the transistor.

The voltage at the point where the base is connected, will be about 50% of the supply voltage or less, due to R1 and R2 being a voltage divider to produce a 50% voltage. The inclusion of the pot will reduce the voltage further. This will keep the buzzer ON.

Solution :-

By removing R2, the circuit will work perfectly. When the supply drops more than 1v, the piezo buzzer will start to come on. The piezo buzzer needs to be an active type. It needs to contain an oscillator circuit and produce a loud squeal or beeping sound when a DC voltage is supplied to its terminals.



The purpose of the diode is to prevent the charge on the electrolytic being passed to any other part of the circuit when the power fails. The electrolytic will be charged to 0.7v less than the power supply, due to the presence of the diode and thus the base voltage must fall 0.7v plus the base-emitter (0.7v) voltage (=1.4v) before the transistor will begin to turn on.

When the power supply fails, the base will be taken to 0v via the 10k resistor and the transistor will be turned on. This is to activate the buzzer.

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.**

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

Terry (G4CHD)

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

Terry (G4CHD)