



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	Mike Wogden	G4KXQ
Secretary	Alan Fisher	2E0EUZ secretary@adarc.co.uk
Treasurer	Ray Hunter	M0TLO

Committee	Andrew Brook	2E0FQE
	Keith Luxton	G0AYM
	Steve Smith	G6SQX

QSL Manager	John Lovell	G3JKL
Web Master	John Lovell	G3JKL
Exam Secretary	John Lovell	G3JKL
Editor	Terry Adams	G4CHD terrywho35@gmail.com

September 2020

EDITORIAL

Welcome to another Newsletter during these difficult times.



As mentioned in last month's Newsletter, we have a new speaker **Drew (2E0FQE)** for this month's Zoom talk entitled **'Overview of 2m/70cm digital voice modes followed by group discussion on relevance' on Monday, September 21st starting at 7.30pm.**

The 'Waiting Room' will open at 7pm and members should **make sure that they have checked in before the talk starts at 7.30pm** as there is no guarantee that they will be able to do so after the talk has started.

We also have hopefully a Zoom talk **for our October 'Meeting'** by **Graham (M1GRA)**. Graham's main interest is in repairing/restoring old transistor radios for which he has his own YouTube channel and hence this would be yet another Zoom Meeting not to be missed. An e mail will be sent to members once we have the title for Graham's talk.

The decision taken by your Committee to not recommence Meetings at the Appledore Football Social Club even with strict social distancing and hand sanitising policies in place, was welcomed by many members. However, the later 'Rule of 6' policy issued by the Government reinforces the decision not to recommence Meetings. Unfortunately with the spread of the virus appearing to threaten a second wave, I think that the situation may only get worse before getting better and so Zoom Meetings and our invaluable Nets will be a lifeline for many. A big thank you to everyone involved in such events.



Many of our members have decided recently to venture into vhf/uhf digital communications and so this month's talk may spur others to join this new aspect of our wonderful hobby.

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
Sept 21st	'Overview of 2m/70cm digital voice modes followed by group discussion on relevance' by Drew (2E0FQE)
Oct 19th	Talk by Graham (M1GRA) - title TBA

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

NORTH DEVON REPEATER GROUP

Drew (2E0FQE) has formed the North Devon Repeater group. For further details visit :-
<https://www.facebook.com/groups/northdevonrepeatergroup>

Darren (2E0LVC) is keeper of the C4FM/Fusion/WiresX repeater MB6DT (144.8125MHz).

AUGUST ZOOM MEETING

'Introduction to the £7 Component Tester'

by Mike (G4KXQ)



This was yet another brilliant find by Mike offering the following functions for around £7!!

Functions

Automatic detection of NPN and PNP transistors, n-channel and p-channel MOSFETs, diodes (including double diode), thyristors, resistor and capacitor and other components
Automatic testing of the pins of a component, and displaying on the LCD

Detection of the transistor, MOSFET protection diode
amplification coefficient and the base to determine the emitter transistor forward biased voltage

Measurement of the gate threshold voltage and the gate capacitance of the MOSFET

Simultaneous measurement of the of two resistors while displaying resistor symbol

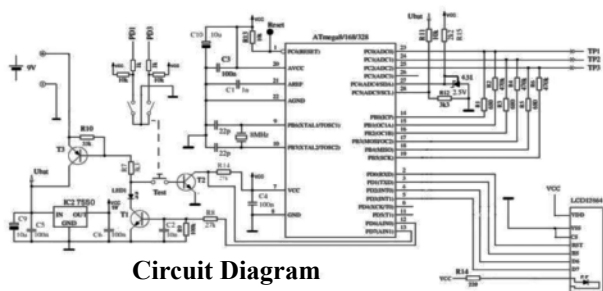
Measurement of a single diode reverse capacitance

Measurements of capacitance, resolution 1 pF

Identification of Darlington transistors via the base-emitter threshold voltage and current amplification factor

Measurement of the bipolar transistor current amplification factor and the base-emitter threshold voltage

16 Character x 2 Line LCD-Display (12864 LCD with green backlight)



Circuit Diagram

Mike's presentation was expertly illustrated using Powerpoint with some of the slides included in this Report. Our thanks to Mike for all his hard work in researching and producing such an interesting talk and offering yet another useful tool for us to rush out and buy.

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
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)

**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)

Fusion/C4FM/WiresX Gateway (MB6DT)

Frequency 144.8125 MHz

Repeater keeper is Darren (2E0LVC)

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)

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

CROSSWORD

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

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

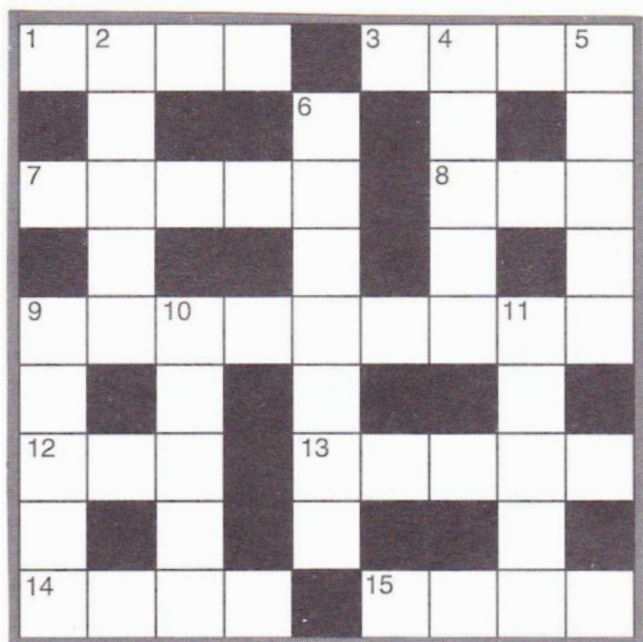


CLUES ACROSS

- 1) Wading bird of the family Threskiornithidae (4)
- 3) ? Thottumkal, actress in Victor Uniform (VU) land (4)
- 7) Nine Golf (9G) land (5)
- 8) Vase, often used for cremation ashes (3)
- 9) A range of frequencies within a given band (9)
- 12) Young goat (3)
- 13) Some 'magnetic' radio aerials are configured as these (5)
- 14) Possibility of danger, injury, loss, etc. (4)
- 15) ? Quatro, American rock singer/songwriter, born 1950 (4)

CLUES DOWN

- 2) State in north-east Papa Yankee (PY) land, capital city Salvador (5)
- 4) Broadcasting by radio as distinct from television (5)
- 5) The ? Gate, 1999 film starring Johnny Depp (5)
- 6) Former RAF station in Oxfordshire, used for atomic energy research (7)
- 9) ? and Howland Islands, Kilo Hotel One (KH1) (5)
- 10) Points in a network at which lines or pathways intersect or branch (5)
- 11) Mainly yellow aluminium silicate gemstone (5)



Last month's answers :-

ANSWERS ACROSS: 1) dot 3) Togo 5) crimp 6) Ben 8) data 9) unit 11) sun 13) sonar 14) Libya 15) sel

ANSWERS DOWN: 1) decades 2) Tristan 3) tape 4) one 6) bananas 7) natural 10) Asia 12) Uzi

POPULAR ANALOGUE/DIGITAL VHF/UHF RIG

A number of members have now decided to venture into the digital voice world on 2m/70cm and its benefits etc will no doubt be explained in this month's Zoom talk by Drew (2E0FQE). The following Yaesu rig - FTM400XDR is a popular choice :-



FT400XDR Key Features/Specifications:-

Touch display
500 Memory channel for each band (A/B)
Backup settings to SD card possible
1200/9600bps APRS
Automatic Mode Selection
Snapshot function (with MH-85A11U)
Wide band receiver from 108MHz to 999MHz
integrated GPS receiver
Smart Navigation
Scanner
DTMF, CTCSS, DCS
Slot for Micro-SD
Analogue/Digital clock

The 400XDR boasts a touch screen but if you want something a bit smaller without the touch screen then the **FTM300R** may be a better choice for you :-



Both rigs cost around £400 and have separate front panels which do not attach to the main unit.

So that's it for this month - bit thin on the radio content I know but hopefully will be able to do better next month or you may have an article I can include
Hopefully not too many errors also this month!!

Stay safe and stay healthy

Terry (G4CHD)