



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

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Chairman	Terry Adams	G4CHD	
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Treasurer	Laurence Soutter	G4XHK	
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	John Lovell	M0JKL	
	Graham Bailey	G1ZTJ	
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Web Master	John Lovell	M0JKL	
Editor	Terry Adams	G4CHD	

September, 2013

EDITORIAL

Welcome to another Newsletter.

This **month's Meeting** is a joint presentation by myself (G4CHD), Laurence (G4XHK) and Dave (M0JAP) on **Antenna Analysers**. Hopefully the evening will end in a fruitful open discussion on the subject so look forward to seeing most of you there.

By the time of our next Meeting, we will have held our **Special Event Station (GB2AC) at Arlington Court but if I get this Newsletter out in time, please come along this Saturday (14th) from approx 8.30am to help erect the aerial, set up/operate the station, and be on hand to answer any questions from the public etc.**

On Wednesday, August 28th, five Club members attended **Vinny Tomlin's funeral** at the Barnstaple Crematorium. Vinny was a regular attendee at our monthly Meetings and so will be greatly missed.

This Wednesday, September 11th, a **Club Committee Meeting** was held at Alan's (M6CCH) qth at which the need for Club Equipment Insurance was discussed. A suitable Company was chosen and it was decided to present details for acceptance at our next AGM. The need for a set of Club Rules together with our existing Constitution was also discussed and suitable examples were presented and will be analysed in due course. It is intended to again present a suitably worded set of Rules at the next AGM for members' consideration. Finally, the need for a Club Application Form was discussed which will be introduced in the next Club year. Terry (G4CHD)



CLUB MEETINGS

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

- September 16th Antenna Analysers - Comparison and Demo
- October 21st Mountains & Canyons of SW USA by John (M0JKL)
This is our annual Open Meeting
- November 18th Back to Basics : The Superhet by Terry (G4CHD)
- December 16th Club Christmas Party
- January 20th Audio Recording - Practical Demo by Laurence (G4XHK) & John (M0JKL)
- February 17th Radio Quiz by John (M0JKL)
- March 17th Club AGM
- April 21st 'Plan B' by Steve (G6SQX)

For further information, contact Alan (M6CCH)

ADVANCE WARNING OF THE HOLSWORTHY ARC RALLY



Need bits for a new rig or just fancy a bargain ?
Then a date for your diary - **Holsworthy Radio Rally, Sunday Nov 3rd 2013 doors open 10 am.**

All enquiries Don G0RQL.
g0rql@hotmail.com

REPORT ON THE AUGUST MEETING

General Natter Night

Unfortunately I was not able to make it to this Meeting due to family commitments, but hope it was an enjoyable evening.

Your Committee would be very interested to hear if such general natter Meetings are useful and if so, whether they should they be left unchanged in format or changed in any way.

Terry (G4CHD)

SPUD LOOK ALIKES !!!

I was digging potatoes on my allotment this morning, and these three came up.



Now, with a little imagination, cannot we detect some resemblance to friends at an Appledore Club meeting? I know who they are – in order, left to right – and if any member can match my identification exactly, that is, **in the same order left to right**, I will award them a prize of a bag of my best potatoes! (5 & 9? after all, you *do* ask for contributions!)

73Stuart, M1FWD.

LOCAL SKEDS

Zepp Net: Mon, Tues, Thurs : 145.450 MHz
Wed : via GB3DN 1600 local time

6m Net: Wednesday, 8pm, 51.5MHz FM

HF Net: Friday at 1500 local time
7.145 MHz ± qrm
THIS NET IS NOW CLOSED UNTIL THE AUTUMN.

Slow Morse: This net run by Dave (G3YGJ) has been suspended. Please contact Dave if you require Morse practice.

70cm Net: Sunday, via GB3ND, 1100 - 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/>

I WONDER IF THIS COULD HAVE HAPPENED IF HE HAD USED MAY DAY ??

Many thanks to John (G0UNB) for the following very interesting article :-

In about 1962 when a RAF Shackleton Search and Rescue Squadron was based at Changi Singapore one of their aircraft failed to return to base. As you can imagine immediate patrols were sent out to the area in which the missing plane was last reported.



After 2 days intensive search an aircraft when over flying a small island observed laid out on the sand in characters about 8 feet tall made up of dark material was 'S O S' and alongside lying down was a large wooden cross about 8 feet in length.

There was no landing ground, only a group of huts and what looked like a small church.

The search aircraft notified Base who dispatched an Air Sea Rescue craft to investigate, they found a small village and a priest who said he had seen an aircraft fly straight into the Ocean about 4 or 5 miles out from the land, there were no survivors and no salvageable debris that they could find.



The Air Sea Rescue Craft found no traces of the plane either.

A commemorative service was held for the missing airmen and the cross was brought to RAF Changi and erected outside the Church.

CROSSWORD

This month's Crossword by Stuart (M1FWD).
The answers will be published in the next month's Newsletter. Good luck !

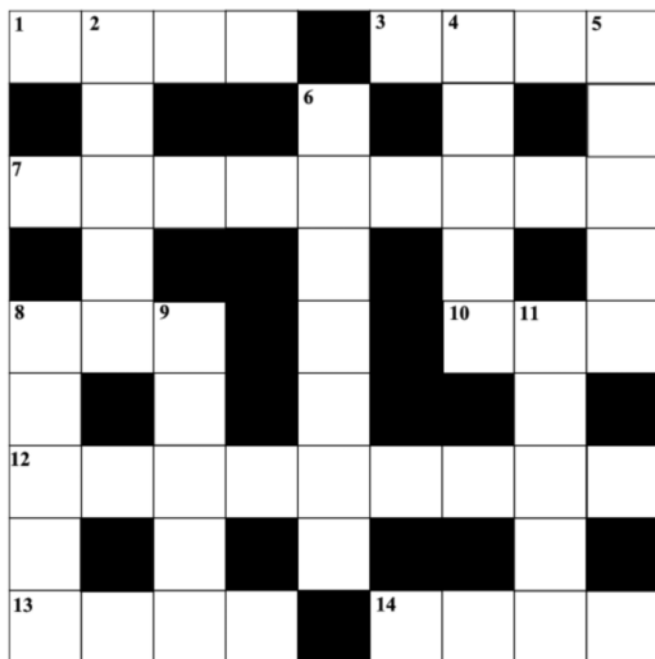
Clues Across

- 1) The 70 MHz band in metres (4)
- 3) Term often applied to a roof-mounted mast structure which supports multiple aerials (4)
- 7) Zulu Bravo Two location (9)
- 8) Abbreviation for the body of water containing India Sierra and Five Bravo islands, plus many more (3)
- 10) For instance, put together two or more numbers and determine their sum (3)
- 12) Natives of Nine Alpha land (9)
- 13) Heard often on the amateur bands : "I'll give you a report on your next ?" (4)
- 14) Kilo Hotel Seven island (4)

Clues Down

- 2) A binary compound of oxygen (5)
- 4) Prefix meaning 'four' (5)
- 5) The ends of plastic-covered wires need to be this before connection to (for example) a power source (5)
- 6) To emit rays of heat, light or other electromagnetic waves (7)
- 8) Denoting a factor of one-millionth (5)
- 9) Lorna ?, heroine of R D Blackmore's Exmoor story (5)
- 11) The currency of Yankee India land (5)

Last month's answers :-



Across 1) Eva 3) half 5) tubes 6) top 8) nana 9) Finn
11) Aga 13) romeo 14) balun 15) Rye

Down 1) Estonia 2) Albania 3) hash 4) Flo 6) trimmer
7) pentode 10) Iran 12) Goa

Stuart (M1FWD)

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**. This month's puzzle is categorised as **Advanced** difficulty.

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

Terry (G4CHD)

BOOK SHELF SUGGESTIONS

Many thanks to Dave (M0JAP) for the following reviews of two interesting books which members may wish to consider

Dave (M0JAP) points out that together these cost just over £20, and he was so inspired by the Radio Nature contents that he has installed an ELF sensor as described there at his radio astronomy and geophysics site.

This humongous sensor coil, together with amplifier and filters, measures the Earth's magnetic field between ~0.1 and 30 Hz (yes, Hertz !). It weighs some 30 kg and contains around 15km of wire and a ferrite core, such that the effective capture area is about an extraordinary 20,000 sq. m. With this and Spectrum Lab free software, he can see

Schumann and Alfvén waves, solar flare artefacts and examine geomagnetic pulsations caused within the solar wind etc. Data flow will be available in a few months time from his web site. It's shown below with his 9 year old grandson. Right now he is installing a nearby geophone for this same ELF frequency range. With this he will be able



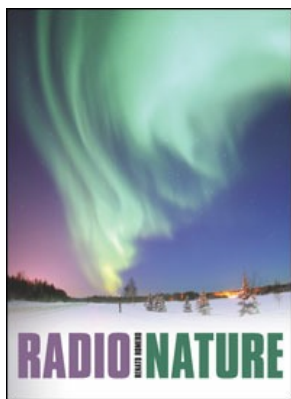
to sense earthquakes, but more importantly will be able to verify whether some signals sensed by the Very Big Coil, despite its internal shielding, are due to man-made sources (like belt buckles moving 10 ft away !).

His biggest problem ? Keeping the sheep at bay!

Although Dave has little time to be on air these days, he points out that for those radio amateurs who like to make their own transceiver equipment and experiment in new areas, the VLF spectrum offers great opportunities at very modest cost. And one does not have to cope with SMT devices and special soldering techniques, one can even use "ugly bug" style construction ! From a scientific point of view he remarks that the whole HF/LF/VLF/ELF area is undergoing a renewal of interest by the geophysics and radio astronomy communities – and including those studying climate change through what is termed earth physics and even through the study and modelling of exoplanets.

Radio Nature - by Renato Romero, (IK1QFK)

Radio signals are not, as is commonly thought, recent phenomena. Nature has spoken through radio signals since the origins of the Universe. Radio Nature is fascinating look at these signals, a guide to receiving and analysing them.



Radio Nature describes these strange signals coming from our own planet and beyond. There is information about tweeks, insects, whistlers, choruses and even flying saucers (nothing to do with spaceships). Readers are provided with details of

artificial and false signals that can confuse the natural radio listener. For the more committed there are designs for simple receiving equipment and antennas along with guides to how you can use simple receiving equipment to hear natural radio. The book also explains how to try to predict storms and even earthquakes using the signals that can be captured.

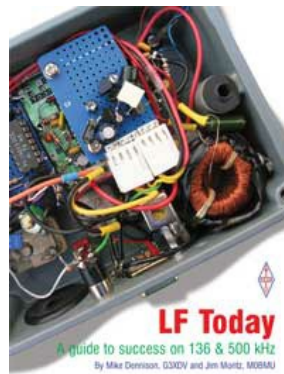
Radio Nature is truly a book for all. If you are a beginner the book opens up a fascinating area for you. For the more committed this provides a comprehensive guide to natural radio and useful reference work. 256 pages

LF Today: a guide to success on 136 and 500kHz

by Mike Dennison, G3XDV and Jim Moritz , M0BMU

The low frequency bands are relatively new to amateur radio. LF Today aims to help you get the most out of operating in this part of the spectrum by passing on the accumulated experience of those who have already found that low frequencies are both challenging and fun.

Based on the experience of the LF experimenters this LF Today provides the reader with a firm knowledge of these



frequencies. This edition has been expanded to include the many revisions and updates that reflect the experimental work has been done on the 136 kHz band, including gaining a greater understanding of low frequency sky-wave propagation. For the first time there are details of the special research frequencies using low power just above 500 kHz. This book includes practical information on antennas, transmitters, receivers and propagation for these experimenters.

Written by the leading authorities on LF, Mike Dennison, G3XDV and Jim Moritz, M0BMU this book is aimed at those who want to try out this fascinating amateur allocation, but it is also of great value to anyone already active on the band. In short, LF Today contains all the information needed to succeed in 136 and 500 kHz amateur radio. 160 pages

So that's it for this month.
Enjoy the read

If any member has an article that they feel would be of interest to Club members, please send it in to me and it will make your Club Newsletter all the more interesting.

Terry (G4CHD)