

Horndean & District Amateur Radio Club Journal

Volume 4

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Chris M0KTT, Skittles Champion.

Horndean & District Amateur Radio Club
Founded in 1975

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Articles, letters of interest, photographs are always needed and should be sent to the Editor :- Mike Clark. m0zdz.mike@gmail.com

I use Microsoft Publisher to produce the journal so am happy to accept articles/photographs via email. A Word document or Picture attachment. Just use Journal article or Journal picture as the subject matter.

Opinions expressed in the journal are not necessarily those of the HDARC. The editor has the right to reproduce the articles for our affiliated club journals/newsletters. The Editor decision is always final.

Closing date for next journal is : 5th July 2019

Editorial

Hi All,

Hope this latest edition of the club's journal finds you all well and enjoying our great hobby.



In this edition you'll find a write-up from Julia on the club's skittles night. Sadly unable to attend, but it looks like I missed a good night with Chris M0KTT taking the champion's spot.

I was very interested to see reports of intense solar radio bursts on Tuesday 7th May. Big sunspot AR2740 is turning toward Earth and emitting loud bursts of shortwave radio static.

A remarkable outburst yesterday was rare in both its form and intensity, exceeding even what observers have detected during Solar Maximum.

Whilst putting the final touches to the journal I'm listening to a very active 20m band, even some North American stations coming through at 20.15 utc which is very encouraging.

Till the next time, good DX

73 de,

Mike. M0ZDZ / G7Y
Journal Editor HDARC

RSGB 40M QSO Parties

Two new RSGB SSB events for 2019 - aimed at newcomers who may be interested in HF contesting. Entrants will gain experience of operating in competitive SSB events, as well as experience of preparing and submitting their Cabrillo logfile entry.

A low-key introduction to HF SSB contesting, operating in a relaxed manner, yet with the aim of contacting as many stations as possible in the available time.

1st 40m QSO Party Saturday 8th June 2019 10:00-12:00 UTC

2nd 40m QSO Party Sunday 20th July 2019 10:00-12:00 UTC

SSB only: Operation is suggested in the frequency range 7090 kHz to 7190 kHz

Foundation Licensee 10W

Intermediate Licensee 50W

Full & Overseas Stations 100W

Exchange: 59 plus your Name (min 2 characters, max 8 characters)
Exchanges should be short and snappy e.g. 59 Tim, but feel free to then chat for as long as you and the other station wish!

Scoring: 10 points per QSO

Any RSGB 'HQ' stations that may be active e.g. G#6XX, G#3DR, GB3HQ will be worth 20 points per QSO. These stations will be happy to offer operating advice and they will be submitting Checklogs only.

There are a number of different sections you can enter under.

For information and the rules for the RSGB 40m QSO Party can be found at :
<https://www.rsgbcc.org/hf/rules/2019/rssbqsoparty.shtml>



SKITTLES NIGHT 2019



On Friday 12th April 2019 the club held its annual Skittles night for club members, family and friends. It was held in a different location and was warmly welcomed by all who attended.

The Crofton near Stubbington has been used often by members who have this venue as their local facility, and for others was nearer in travel time than to drive to Southwick or Waterlooville area. The few who live near Waterlooville were happy with the change of venue and did join us there for the Annual Christmas Dinner in December.

I think the furthest member came from Hayling Island so I thank Jon MOXUE for supporting the venue for his first time, and sincerely hope we will see him and many others at this year's Xmas Dinner at the Crofton which is already booked to take place on Thursday December 12th.





The staff were very attentive, and the home-grown and home-made food menu choices was excellent. The management laid the tables out in a much better format allowing groups to be kept together easier. The function room is a separate building away from the main restaurant and bar although parking is shared. We had a separate bar and comfort facilities and coat rack for ladies and gents to hang their coats and jackets up. The skittle alley area was carpeted and the alley itself much longer and wider than that we have used before. The skittles and balls did at least stand up better and the balls were actually round and nice to handle.



The room layout enabled full view at all times of all activities going on so without standing, guests could sit and watch from their seats. Guests played three rounds each before the end of the evening with two rounds being completed before the food was served prompt at 20.00hrs. For those guests who asked about dessert options this can be organised but would be an additional request as the Skittles menu is main course only.





They will provide costs and a separate menu for me nearer the time so guests can choose if required, and then the orders will go in as normal prior to the event. We played the final round after guests had eaten and was completed by 21.50hrs; much earlier than in previous years.

The scores were totalled and winners of the various sections were quickly identified.

HOARC ANNUAL SKITTLES EVENING 2011			
NAME	GAME 1 ANSWERSHEET TOTAL	NAME	GAME 2 ANSWERSHEET TOTAL
TRISH DIXIE		LIAJ SHEREEN	7
LIAJ SHEREEN		GUY GENEVIEVE	7
BILL KENWELL	5	BLAINE KENWELL	7
SIMONE TRIBE		JOHN RYAN	7
FRANK COTTERILL		CATHARINE ALEXANDRA	
DEBORA TREVOR		DEBORA TREVOR	
GILL COOPER	7	GERALD	
CHRIS WADDELL		LESLIE ANDREW	
CHARLOTTE SPENCER		MARION COOK	
PAUL GIBSON		GEORGE TAYLOR	
CHRISTIAN BAXTER		TONI HUNTER	
HELEN MURKIN		CHRISTINE WILDE	
ROBIN COOPER		ALLISON PITT	
HELEN COOPER		SARAH COOPER	
TRISH COOPER			
CHRISTINE WILDE		LOUISE BURGESS	
MARGARET SHIRLEY GENTLEMAN		LAUREN BURGESS	
		LAUREN BURGESS	
		LAUREN BURGESS	



The 2019 Club Skittles Champion is Chris Jacobs M0KTT, the club's station manager. The Highest Scoring Lady was Elayne Kenway, the XYL of Bill, our club Treasurer. The Highest Scoring Male was won by Stuart Swain G0FYX, the club's secretary. The Lowest Scoring Female went to Gemma Swain (Stuart's daughter-in-law), the Lowest Scoring Male went to Malcolm Shropshire (Gemma's dad!).



I thank everyone who supported this year's event with members and guests who were happy to take turns acting as the ball boys; this involved picking up the skittles knocked down by players and re-placing ready for the next player. I thank Christine M6UBI for selling and drawing the raffle tickets at the end. With lots of prizes on offer, everyone seemed to have a good time. I thank those guests who kindly brought a gift along and donated it to the table.

Some photos from the evening's activities are enclosed with this article taken by myself, Simon and Mick. There is also a photo taken by me on the following club night of Chris being presented with his certificate by our club Chairman (see front cover). He had been presented with the trophy on the skittles night.

Julia G0IUY Social Secretary HDARC



Portsmouth: Harlots, Dung and Glory Part 4

At the club meeting on March 15th, local historian Andrew Negus, once again visited the club to give a continuation presentation on the History of Portsmouth, this time to bring us up to the present time, with the title "Prosperous at last?"

This is a very brief account of his talk, and I am very grateful to Andrew for allowing me to use his slides to refresh my memory of the talk details. Thanks to Mick G3LIK for this photo; text by Stuart G0FYX

Andrew began by giving a brief recap on what had gone before. The Norman Kings created Portsmouth (their gateway to Normandy), and King John's Dock in 1215, eventually becoming the dockyard, and the 4000 workers being the largest factory complex in the world. In 1930, the Dockyard had 10,000 workers, and the population of Portsmouth was 180,000.

The military presence was not only the Royal Navy, as there were 12 barracks for soldiers and marines too. Industry in the City at that time included Brickwoods brewery, and a number of women's underwear manufacturers.

1930 brought world recession and disarmament, and this meant unemployment and poverty for Portsmouth. Andrew showed a slide of an oil rig structure on the slopes of Portsdown Hill.



During March 1936 the tranquillity of Portsdown was shattered by the installation of an oil drilling rig by the D'Arcy Exploration Company, a subsidiary of the Anglo-Iranian Oil Company. During the drilling of the test bore a small mining village temporarily sprang up on the hillside. The 136 feet (41 metres) derrick drilled to a depth of one mile (1.6 km) but oil in commercial quantities was not found. Site was abandoned February, 1938.

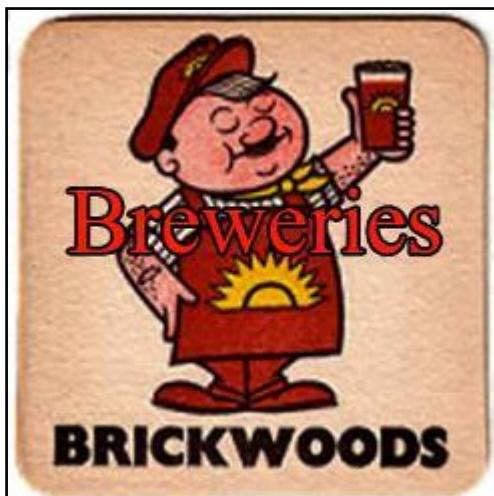
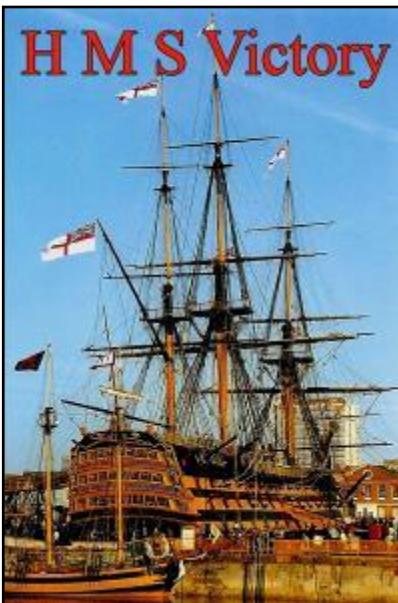


During the 1930's a vast underground storage facility was dug deep into Portsdown Hill, capable of holding up to around 180,000 tons of oil in 9 concrete storage tanks, each 35ft high. Pipes ran from Portsdown through Portchester, Fareham Creek, Fleetlands, Frater, Priddy's Hard, Forton Lake and terminated at the Forton Oil Fuel Depot, Gosport. The internet has a lot of detailed information about the fuel depot, tunnels under Portsdown Hill etc. When the M27 was built the pipelines were re-routed under the motorway in a tunnel.

Portsmouth Airport and the Airspeed factory. Airspeed Ltd. was founded by Nevil Shute Norway (later to become a novelist as Nevil Shute) and designer Hessell Tiltman. Shute lived on Hayling Island for a long time. Amy Johnson, the famous pilot was an associate of the Airspeed company. The airport was built 1931-32, and closed in 1973, following several incidents where aircraft had overshot the runway and ended up across the Eastern Road.



Andrew then mentioned Portsmouth FC and their FA Cup win in 1939 (which meant they held the cup until the competition resumed in 1946 after the war). Manager Jack Tinn was rumoured to have kept the FA Cup trophy 'safe under his bed' during a part of the war. Because the navy city of Portsmouth was a primary strategic military target for German Luftwaffe bombing, the trophy was routinely moved around the city of Portsmouth for its safety and protection, moving from Fratton Park's boardroom, into bank vaults, back to Fratton Park and around local pubs. During the worst of the bombing on Portsmouth, the trophy was also taken 10 miles N of Portsmouth, to the village of Lovedean, where it was kept and displayed in a quaint thatched country pub called "The Bird in Hand".



In 1945, the trophy was taken around the streets of Portsmouth and proudly shown off at Victory in Europe Day street parties. Pompey won the FA Cup again in 2008.

Mention was made of HMS Vernon. Originally set up to carry out trials of torpedoes, in the Second World War, and following on from the increasing use of mines, Vernon took on responsibility for mine disposal and developing mine countermeasures. After WW2 it also took over responsibility for naval diving. The brick building is now the pub (The Old Customs House) in Gunwharf Quays.



On 10th January 1941 Portsmouth Guildhall was bombed causing extensive damage. Andrew stated that there were 23,000 workers in the dockyard in WW2. Vospers shipbuilders were situated in the Camber.

The Cockleshell Heroes were involved in a very successful daring raid on German-occupied Bordeaux harbour in 1942. Operation Frankton (as it was called) was carried out by a group of Royal Marines. They trained at Lumps Fort, in Southsea.

Mulberry harbours were concrete structures, made in the Portsmouth area. They were temporary portable harbours developed to facilitate the rapid offloading of cargo onto beaches during the Allied invasion of Normandy in June 1944. A faulty example is still present in Langstone harbour.

In 1951, the population of Portsmouth was 234,000, and new building was required for people made homeless by bomb damage in Portsmouth. The Leigh Park estate was born, and the first residents moved in in 1949.

HMS Dolphin was the RN submarine school at Gosport. This closed in 1998, and the site is now Fort Blockhouse. Andrew mentioned the famous Buster Crabb. Lionel Kenneth Phillip Crabb, OBE, GM (28/01/1909 – presumed dead 19/04/1956), known as Buster, was a RN frogman and MI6 diver who vanished during a reconnaissance mission around a Soviet cruiser berthed at Portsmouth Dockyard in 1956.

Andrew mentioned the Gosport ferry and the Hovercraft, both going strong today. Buildings mentioned were Portsmouth Cathedral, hospitals, and the Tricorn. Notable people mentioned were James Callaghan (politician), Sir Alec Rose (round the world sailor), Marilyn Cole (Playboy bunny).

Mention was made of The Mary Rose (raised in 1982), the same year as the Falklands War.



Portsmouth today is a big city, but not reliant on the Navy for employment. We have the continental ferry port and the commercial docks, tourism, (including Spinnaker tower and Gunwharf Quays shopping and entertainment complex), the dockyard, with HMS Victory, HMS Warrior and the Mary Rose, and the University of Portsmouth which has 24,000 students and 1,500 staff. We have castles (Portchester and Southsea), Forts (including Fort Nelson, Purbrook and Widley) and the Solent forts.

What of the future? Possibilities: Expansion of the commercial port, a cruise ship port, a vehicle port (similar to Southampton for export of vehicles), a container port, so even without the Navy Portsmouth might still be prosperous.

The write-ups of Andrew's previous 3 visits are in the journals Aug/Sept 2016, page 18, June/July 2017, page 9, and April/May 2018 page 13. Andrew gives talks on other local history topics, so if you belong to a group that might like to hear him talk, he can be contacted via negusday@googlemail.com .

Portsmouth : Harlots, Dung and Glory



The End



Isle of Wight Radio Society Golden Jubilee Award

www.facebook.com/groups/iowrs

This award is open to all radio amateurs including members of the I.W.R.S, shortwave listeners and network radio users.

The award will start on 1st April 2019 and finish on 31st March 2020.

How to enter.

Download the spreadsheet logbook from the files section of the I.W.R.S Facebook page. Log the stations worked in the spreadsheet logbook recording the:-

Date, Members Christian name, Mode

Type a one in the **log the contact column** and the total worked is transferred to page one of the spreadsheet.

Bronze Award work 10 club members.

Silver Award work 20 club members.

Gold Award work 35 club members.

Trophy work 35 club members plus the club station G3SKY active from 8pm on a Friday night.

Claims can be made by sending an email to paul.g0gmy@gmail.com with a completed spreadsheet logbook attached.

PDF certificates will be sent by email free of charge. Trophies will be presented at the club's 2020 AGM. Certificates may be claimed for single or mixed bands or modes please indicate when you make a claim. Contacts made via GB3IW including echolink and nets are allowed. Contacts made via network radio are allowed.

A member is a person who is listed in the spreadsheet logbook, E&OE.

Duplicate contacts with the same club member are not allowed.

Claim forms for the award have been uploaded to the club's Facebook page and PR material sent to Practical Wireless and the RSGB. Local groups and clubs will be notified. There will be a briefing at the club and on the GB3IW Thursday night net.

Nets and frequencies where club members can be found

Waterside Net 145.525 Mhz	Daily	08.00 - 09.00
GB3IW Thursday Night Net 433.225 Mhz	Thursdays	20.00 - 21.00
Club night G3SKY on AIR 145.525 Mhz	Fridays	20.00 -
Confusion Net, C4FM DigitalCall on 144.6125Mhz	Sundays	20.00 - 21.00 (then QSY 144.575 DN)

Paul G0GMY



COMPONENT TESTING

Mike CAA tell the difference.

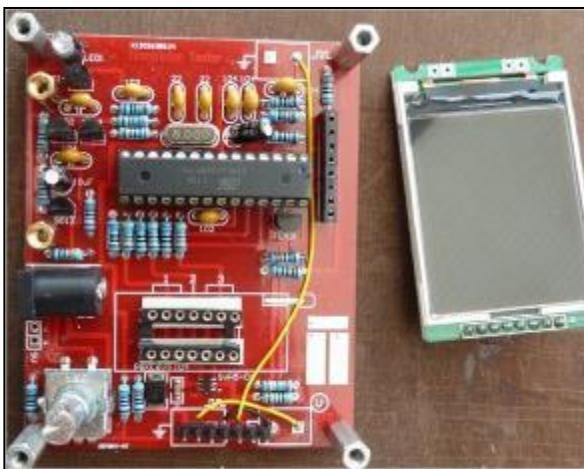
A while back (before the house build took over all my waking hours) I was attempting to find some matching NPN transistors from my junk box for a home brew project. If you can guess the pin out, you can work out if a transistor is NPN using a cheap multi-meter with a diode test position. If there's an HFE test socket, DC gain.

However after a bit of web surfing I found an article by a guy with the same sort of problems who'd solved them by making a component tester.

See:

https://www.mikrocontroller.net/attachment/164956/ttester_eng104k.pdf

The device uses an ATmega328 single chip microcontroller (as used on the Arduino modules). This is a very capable little controller as it has 3 timers, an 8 channel, 10 bit analogue to digital converter and a PWM modulator. Using 3 test terminals it will test resistors, capacitors, inductors, diodes and most types of transistors.



A bit more digging revealed the Chinese have produced this as a cheap kit (£9 including postage) using a 128x160 pixel LCD display. The surface mount components are pre-fitted to the PCB and all the other components are through hole, so construction is a doddle and took me less than an hour.



The 3 test terminals are wired to a 14 pin dual in line, quick release socket. This allows components with different pin spacing to be easily connected. External screw type connections used which I replaced with a plug strip to make connection easier. You can get a Perspex case but I preferred something that would stay on the bench so extended the connections to fit the unit in a box with a wall wart supply as I find batteries leak in stuff that's rarely used.



The kit includes a pre-programmed chip and the software is very well designed. It displays a pictorial indication of the device with its pin out and characteristics. Very good for basic bipolar transistors and it even shows the protection diodes on FETs. It can't cope with complex devices like Darlington transistors or unijunction's. The large value capacitance testing uses discharge time and an effective series resistance (ESR) measurement is done with a low frequency. I tried testing some ancient electrolytics from a valve radio but the results were nonsense, however enough to tell you they needed replacing. Inductance testing works well with the DC resistance displayed with the inductance. Obviously very small values of inductance (and capacitance) are not very accurate, as you'd expect. The frequency measurement and square wave signal generator mode are very crude and of limited use.

Overall I'm very impressed that such a cheap device does so well and brilliant for anyone with a junk box with unknown devices. Excellent for finding matching transistors. With a couple of short test leads, components on a PCB can be checked with a bit of intelligence for other devices in circuit.

All the best and happy hacking - Mike M0CAA & Sue M0BOZ



RSGB Cricket World Cup Radio Marathon 2019

The **RSGB** is pleased to invite all radio amateurs across the world to join us in celebrating the **Cricket World Cup** which is being held in England and Wales in 2019. We are organising an International Amateur Radio Marathon for the duration of the competition.

Overview and Objectives

The marathon will run from 30 May 2019 to 14 July 2019 UK and International callsigns will be activated on 9 HF bands using SSB, CW and Digital modes.

A series of award certificates will be offered based on the number of QSOs made with the special UK and International stations. We will be using the excellent Hamlogs system that was used so successfully for the Football World Cup marathon in 2018.

We are inviting other countries to take part and to activate special call signs with the suffix 19CWC or similar.

The UK will be using the following 31 callsigns.

Callsign	Representing
GB19CWC	2019 Cricket World Cup HQ England

Cricket Ground callsigns activated in England

GB19OT	Old Trafford, Manchester
GB19RG	Riverside Ground, Chester-le-Street
GB19HL	Headingley, Leeds
GB19EB	Edgbaston, Birmingham
GB19LL	Lord's, London
GB19KO	Kennington Oval, London
GB19RB	The Rose Bowl, Southampton
GB19BG	County Ground, Bristol
GB19TG	County Ground, Taunton
GB19TB	Trent Bridge, Nottingham



Teams callsigns activated in England

GB19AFG Afghanistan
GB19AUS Australia
GB19BAN Bangladesh
GB19ENG England
GB19IND India
GB19NZ New Zealand
GB19PAK Pakistan
GB19SA South Africa
GB19SL Sri Lanka
GB19WI Windies

Callsigns for other DXCC countries

GB19CNI Cricket Northern Ireland
GB19CGI Cricket Northern Ireland
GB19CS Cricket Scotland
GB19CGM Cricket Scotland
GB19CW Cricket Wales
GB19CGW Cricket Wales
GB19SG Sophia Gardens, Cardiff activated in Wales
GB19CG Cricket Guernsey
GB19CJ Cricket Jersey
GB19CIM Cricket Isle of Man

Special International callsigns

LX19CWC Luxembourg
CS2019C Portugal
PJ4DX Bonaire
VK19AUS Australia
VR2019C Hong Kong
5B19CWC Cyprus
ZS19CWC South Africa
5P19CWC Denmark



QSOs with stations using these callsigns during the marathon period will count towards the marathon awards in the same way as the GB19 calls.

What are the rules?

1. A list of all the activating special callsigns for the marathon will be published on the Hamlogs website.
2. Special stations in England and Wales will represent the 11 venues and ten participating countries of the Cricket World Cup. In addition England, Scotland, Wales, Northern Ireland, Jersey, Guernsey and the Isle of Man will have a number of Cricket HQ stations.
3. RSGB will welcome special stations from the 26 DXCC Countries who are Full International Cricket Council (ICC) members and the 117 DXCC countries who are Associate ICC members.
Callsigns with the suffix 19CWC will be encouraged but other activating callsigns may also be used.
4. Activating stations will call “CQ CWC” on CW or “CQ Cricket World Cup” on phone.
5. All radio amateurs are welcome to take part in the marathon.
6. Awards will be available for numbers of QSOs with the activating special stations. QSOs with the same special station will be valid on three different modes; CW, Phone, and Digital and per band, 160m, 80m, 40m, 30m, 20m, 17m, 15m, 12m & 10m.
7. All QSOs must be made between 30 May and 14 July 2019 inclusive.
8. Awards will be: Bronze – 50 QSOs, Silver – 125 QSOs, Gold – 250 QSOs and Platinum – 500 QSOs.

All QSOs will be uploaded to LoTW at the end of the marathon. There will be no Paper QSL cards or eQSL cards for the Special UK Callsigns.

How can I make QSOs with the Special Stations?

Special stations may attract a high number of callers, all transmitting at the same time. In such cases, the station will advise callers that they are listening within a nearby range of frequencies. This is called “split-frequency” operating.



It is important, therefore—

- to listen carefully to the special station before transmitting. The operators will announce if, and when, they are working “split” and give an indication of where they are listening. On CW this will normally be the word ‘up’ (rarely ‘dn’) to indicate the operator is listening higher (or lower) in frequency, typically 1 – 2 kHz. Be careful to watch for this if using a code reader.
- not to transmit on the special station’s run frequency (where they are calling) if they are working “split”.

By carefully monitoring both the run frequency and the range of receiving frequencies, you can determine which frequency the special station is listening on at any instance and can plan your call to maximum effect.

How can I track my progress in the marathon?

The logs for the special stations will be uploaded to Hamlogs each day.

On the [Hamlogs Cricket World Cup Radio Marathon 2019 page](#) you will be able to enter your callsign and select “Check Your QSOs”. If you have had enough QSOs to qualify for a certificate you can download it from there. The Hamlogs page also shows where many of the special stations are currently active—and keeps a count of the QSOs that each special station has.

Full details of the Marathon including the Rules for Awards, can be found on the RSGB website at rsgb.org/cricket .

You can follow your progress in the Marathon on the Hamlogs Website at cricket2019.hamlogs.net .

For further information relating to the marathon please email ContestClub@rsqbcc.org .

Kind Regards, **Nick Totterdell G4FA**
RSGB HF Contest Committee Chair
HFCC.Chair@rsqbcc.org



Horndean & District A.R.C Information.



Club Call signs **G4FBS (Held by MØKTT); G6RST (Held by G4WQZ)**

Club Website <http://www.hdarc.co.uk>
(Maintained by Neil 2E0LNX)

Club Groups.io site Administrator is Stuart GØFYX

Club Meetings Held at Deverell Hall, 84 London Rd, Purbrook, Waterlooville, Hants. PO7 5JU, on the 1st and 3rd Friday of each month. Commencing at 1900.

Club Nets **All times are local and frequencies plus/minus QRM.**

Sunday 0900 CW until about 0930 then SSB on 1950 kHz.
Net controller:- Stuart GØFYX

2000 FM 433.450 MHz
Net controller:- John G4WQZ

Monday 1930 SSB 1950kHz
Net controller:- Stuart GØFYX

Wednesday 1930 FM 145.375 MHz
Net controller:- John G4WQZ

Club Membership

Joining fee £2 . Annual fee £26. Those aged 10-18 pay half this rate, and under 10's have free junior membership. For Europe and rest of the World fees please contact the Membership Secretary. All annual fees payable on November 1st. If fees not paid by the following January 31st, membership is ended.

Club Awards

Full details from Stuart GØFYX (details on committee page).

News of club members

Congratulations to Chris (ex-M6FUW) who passed his Intermediate licence exam, and now has the callsign 2EØFHH.

Well done to another Chris, this time MØKTT, who is the 2019 Club Skittles Champion. See the write-up elsewhere in this issue.

A couple of members had 'big' (ending in zero) birthdays in April - Simon GØIEY on the 20th, and John G4WQZ on the 24th. Congratulations.

Diary

Friday June 7th - Club night

Sat/Sun June 15th/16th GB2RAM on the air from Fort Nelson (see below)

Friday June 21st - Club night

Sat/Sun June 22nd/23rd GB1PPM on the air from Fort Widley (see below)

Friday July 5th Club night

Friday July 19th Club night

This 'n' that

The RSGB series of club championship contests continues. June dates are Data on the 10th, CW on the 19th and SSB on the 27th. July dates are CW on the 1st, SSB on the 10th, and Data on the 25th. Please see if you can get on, and give the club some points.

<https://www.rsgbcc.org/hf/rules/2019/r80mcc.shtml>

On June 15th/16th and 22nd/23rd the club will be running special event stations for the International Museums on the air weekends. Chris MØKTT is station manager for both and asks for your support. Please let him know if/when you can help via oldbikenut1@gmail.com. We need help setting up, operating, liaising with members of the public and dismantling. We will be operating both HF and VHF. Royal Armouries Museum GB2RAM is at Fort Nelson, and the GB1PPM is at the new Pompey Pals (WW1) museum at Fort Widley.

In October 2020 it will be the 45th birthday of our club. We are looking for ideas which can be considered to celebrate the occasion. If you have any suggestions, please let one of the committee know.



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NEW to the UK!**nevada®**

SERVING OUR CUSTOMERS FOR 50 YEARS! 1969 - 2019



Dual Band 6/4 PA5070-11-6



4m Yagi PA70-5-3



Dual Band PA144-432-13-1.5



2m Yagi PA144-6-2



PA432-14-3 70cms Yagi



23m Yagi PA1296-18-1.5AR

Goran YU1CF has over 30 years' experience in antenna design. He uses Professional 3D EM modelling, (not outdated Amateur software), for perfectly optimised, predictable and reliable antennas.

**Dual Band 6/4**

PA5070-7-3.....	6m 3el 4m 4 element 3m boom.....	£179.95
PA5070-11-6.....	6m 5el 4m 6 element 6m boom.....	£249.95

4M Yagis

PA70-5-3.....	4m 5 element Yagi 3m boom.....	£129.95
PA70-6-4.....	4m 6 element Yagi 6m boom.....	£169.95

Dual Band 2/70cms

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2M Yagis

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