

# TARS TALK

Official Magazine  
of the  
Torbay Amateur Radio Society

Number 68

Winter 2006/7



*The TARS 60<sup>th</sup> Anniversary QSL Card*

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**Your Elected 2006/7 Committee**

<b>Chairman</b>	Larry Hill - M1ARW	<b>Treasurer</b>	Colin Coker - G4FCN
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<b>Committee Member</b>	David Bowyer - M1AEI	<b>Field Contest Manager</b>	John May - GOCDDB 6 Hodson Close, Paignton, Devon. TQ3 3NU.
<b>Website Host</b>	East Foldhay Zeal Monachorum Crediton Devon	<b>Web Master</b>	Brian Wall - G1 EUA 3 Grenville Avenue Teignmouth Devon, TQ14 9NJ,

You can e-mail members of the committee at [callsign@tars.org.uk](mailto:callsign@tars.org.uk)

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**Chairman's Chat****Larry M1ARW**

2006 has passed and the club is going from strength to strength with new members joining and more members attending on Friday nights - the centre pages illustrate the success of our new club HQ. The Christmas party and quiz night was a great success with TARS winning the cup for the second time in a row, thanks to every one that supplied the food - what a spread! And there was plenty left for the doggy bags. Special thanks should go to Sylvia, Marlene, Ged, Ursula, and Pam for managing the "food" room.

We have a lot going on this year as it's our 60th anniversary starting with an open day using the call sign of GB6OTR.

This year I would like us to enter some contests but it's down to you to volunteer and put your name down for them speak to the contest manager, John GOCDB, if interested.

That's it for now, so best wishes and have a good new year in 2007.

Regards Larry M1ARW

## From the keyboard of the TARS Secretary

Mark G7LJN

*"We shall not cease from exploration. And the end of all our exploring will be to arrive where we started and know the place for the first time."*

T. S. Eliot, *Little Gidding*  
British (US-born) critic,  
dramatist & poet (1888 - 1965)

Perhaps this famous quote shines a bit of light on the question why we humans climb mountains, or indeed invent and discover.

Radio of course is itself a tremendous invention that required exploration of the deepest mysteries at the limit of technical knowledge by those who developed it. When I use a radio I somehow feel that I explore that original mystery again. That's about as adventurous as I get mind you, no mountains for me!

We are now embarking on our TARS 60<sup>th</sup> Anniversary Year 2007, what was in the minds of radio enthusiasts and adventurous folks in 1947 when TARS was founded? It was just after the war when adventure had been

military and deadly, times were and would continue to be hard, however the spirit of exploration was strong.

It was the year of Thor Heyerdahl and his amazing Kon-Tiki expedition that used Amateur Radio for its communications.

Thor Heyerdahl was a noted Norwegian anthropologist and adventurer who theorized that the South Pacific islands were colonized from South America, rather than from Asia or Africa. To add to his theory, in 1947 Heyerdahl built a 45-foot long balsa wood raft lashed together with hand-drawn hemp rope and assembled a crew to sail her from Peru out into the South Pacific.



The *Kon-Tiki* Expedition crossed 4500 miles of open ocean in 101 days to reach the Polynesian atoll Raroia in the Tuamotu Archipelago. The seaworthiness

of an aboriginal raft was proven and Heyerdahl showed that ancient Peruvians could have reached Polynesia.

### Radio onboard Kon-Tiki.

World War II was a great incubator of radio skills. The resistance workers in Norway developed splendid clandestine rigs, many of which were battery powered, some hand cranked and a few even steam powered with tiny engines burning wood. On board the Kon-Tiki raft when it departed from Callao, Peru on April 28, 1947, were two former Norwegian Resistance radio men, who, like Heyerdahl, had escaped to England early during the Nazi occupation of Norway, trained there and were either smuggled back into Norway or parachuted in at night.

Torstein Raaby was famous for secretly transmitting data about the German battleship *Tirpitz*, ultimately leading to its sinking by RAF bombers. Knut Haugland, the expedition's chief radio operator, was part of the team that dropped into Rjukan and blew up the Norsk Hydro heavy water plant, effectively stopping the Nazi nuclear bomb experiments.

Several years later, it was not too surprising to find Haugland and Raaby on a balsa-wood raft in the Pacific running a set of watertight, 10-W-input, hand-cranked rigs for Heyerdahl's expedition.

**6 On Raft Drift Across Pacific**

**KON-TIKI EXPEDITION PICKS NATIONAL RECEIVERS**

Somehow in the vast loneliness of the Pacific a frail, old wood raft is drifting westward, carrying six Norwegian sailors toward the Polynesian Islands. Their mission: to see that the Polynesians could have been settled by prehistoric Peruvian Indians.

Courage, yes; recklessness, no. These adventurers are sailors, not shut-ins. Before setting out from Peru they are sure that they would have the finest radio equipment the world... National receivers, of course (Models 40/20 and 10/10).

To be sure... to bring in the weakest signal in the world that weather... to exchange vital weather and navigational data with land stations thousands of miles away... to stay in touch for months on end these are National receivers aboard the Kon-Tiki Expedition. They are still functioning as reliably as ever.

What better testimonial than operator Knut Haugland's cheerful "All's Well" radiated from the Tuamotus atolls... 4000 miles across the Pacific, and still going well.

Congratulations are also in order to W5AQA, W6EVM, and W7YA who have been in regular contact with U2B, 778 and 14,142 mega have been assigned for general use. Next time you go on the air, why not see if you can spot Haugland and get the Expedition's story first-hand.

**National Company, Inc.**  
Malden, Mass.  
MAKERS OF LIFETIME RADIO EQUIPMENT

The conditions on the raft were primitive, to say the least. What is remarkable is how well their three simple transmitters--with the 40/20, 10 and 6-meter rigs made up entirely of 2E30 tubes--performed. As an emergency backup they also carried a British Mark II Transceiver originally produced by the SOE in 1942. All

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the gear was powered by dry batteries.

The receiver was a National NC-173.

The expedition, with the amateur call sign of LI2B, maintained regular communication with a number of American, Canadian and South American stations that kept the Norwegian Embassy in Washington, DC, abreast of Kon-Tiki's efforts. LI2B also kept a schedule with **W1AW** the primary operating station of the American Radio Relay League.

The success of these QSOs was due to the skill of the operators. On August 5, Haugland worked Amundsen back in Oslo, Norway, for a circuit of about 10,000 miles. The crew was thrilled to finally have a direct contact with home and several more QSOs were made with Amundsen, who had only a single 807 in his power amplifier.

The gear was soaked upon landing on Raratonga. In his book *Kon-Tiki*, Heyerdahl described how the NC-173's maximum operating frequency slowly rose as the unit dried out--finally reaching the frequency of 13,990 kHz, where the crew had been forced to move

its 20-meter operation because of a crystal failure. The crew used a hand-cranked emergency transmitter to send out an "all well, all well" message via LI2B just in time to head off a massive rescue attempt.



Heyerdahl also led anthropological expeditions to the Galapagos Islands and Easter Island, sailed the Atlantic in papyrus rafts (under the UN flag) and explored the Maldives. He died April 18, 2002, at the age of 87.

Amateur Radio has always been at the edge of exploration, at the frozen Poles, on the sea, up mountains and now in space. Never let it be said then that it is a dead hobby, or is purely the domain of those who have megarigs and megawatts, its for you and me with 10mW or 1000W, the

crystal set or the latest "Yaywood", we are all explorers following in the footsteps of those who have gone before.

Please make a resolution to enthuse someone with the Amateur Radio spirit this year, or as our American Ham friends have it, be an Elmer!

Happy New Year,

Best 73

Mark G7LJN

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**PETER TANNER**

\*\*\*\*\*For Sale\*\*\*\*\*

**TARS TALK ON CD**

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£8.00 each for members, £10.00 for non members. Available from G4FCN at the Club on Friday evenings or by post if required, carriage and packing £1.00.

## Membership Matters

Ged - G6CLD

Welcome to another year - Many thanks to those of you that have given your subs for 2007, a reminder to those that haven't done so yet. We have 66 of you who have renewed so far - so that may will be a record for this time of year so well done to you.

Subs are the same as in previous years:

Full:	£15.00
Joint:	£20.00
Junior (u16):	£ 5.00
Associate:	£10.00
Family:	£22.00
Life:	£500.00
Honorary:	£15.00

We have a few more new members since the last edition - we welcome you to TARS (or even welcome you back).

Our new members are:

G1TUU Michael Dixon  
Paignton 01803 557941

G6UPR Bryan Hingston  
Marldon 01803 557853  
bhingston@tiscali.co.uk

SWL Valerie Hingston  
Marldon 01803 557853  
bhingston@tiscali.co.uk

G1WUU John Neate  
Paignton  
john.g1wuu:blueyonder.co.uk

G3WWT John Teed  
Staines 01784 458583  
johnteed@fish.co.uk

M3RMU Andrew Teed  
Newton Abbot  
01626 356176  
11427@coombeshead.devon.sch.uk

R3M Russian Union of Radio  
Amateurs, Regional Department  
Yaroslavl Region.  
R3m@mail.ru

G0DDF David Fairchild  
Torquay 01803 314822  
davefairchild@davefairchild.plus.  
com

G0IVZ Jan Fisher  
Callington 01579 362652  
Jan.fisher@virgin.net

G3LQX Mike Nicholls  
Teignmouth  
01626 773934

Mikea-nicholls@virgin.net

Some minor amendments from  
last time:

M3DCQ is now 2E0DCQ

SWL John Maltby is now 2E0ZEO

G3GHS new e-mail address is  
jgholland@totease.eclipse.co.uk

GOCEL new address is  
ngevely@aol.com

And finally my apologies to Nigel  
G7URW - his callsign is G7URW  
not as in the membership  
handbook which shews G7URM .

Must now email this to the Editor  
before the dead line.

73 and 88

Ged.

## Member of the Month

Brian G1EUA / VE7BRN

Webmaster is asking for a photo  
and short text of all members in  
their shack to present as a  
feature on the website.

As an example I include a picture  
of my shack:



Would members please submit  
their copy directly to  
webmaster@tars.org.uk or  
directly to Brian at  
veloce1@tiscali.co.uk or by hand  
at club meetings.

The Webmaster needs to assemble a bank of these photos in order to obtain continuity of publication so get out your digital camera and get a shot of yourself in your shack and send it to Brian

These photos would be held in a bank and presented in a feature on the website

Brian Wall G1EUA / VE7BRN  
webmaster@tars.org.uk

*(Editors Note: please be aware that if your picture is published and you subsequently suffer loss or damage TARS will not be held responsible - any pictures submitted are at the member's own risk).*

\*\*\*\*\*For Sale\*\*\*\*\*

**TARS 60<sup>th</sup> Anniversary PEN's**

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Black ink with a maroon colour body - ideal for filling in your logbook. Comes with an LED Torch and laser pointer in a snazzy felt bag.

Engraved "TARS 60<sup>th</sup> Anniversary 1947 - 2007"

£3.00 each - £3.50 Post and Packing (Overseas postage on application)

Contact Colin - G4FCN

## Meeting and Event Activity Reports

### October Monthly Meeting

A talk by Steve, G4 EDG, on signal losses using our old friend co-ax was October's topic at the monthly meeting. Steve has approximately 100 metres of RG58 and he easily demonstrated with five watts into a dummy load using a power meter how the cable run losses its' power. Top band was acceptable and 20 meters lost a quarter of its' power by the time you got to 2 meters, 1 watt was all that was showing, anything above 2 meters would be complete waste of time. The losses are mainly due to the construction of the cable itself, the centre core is small in diameter and as the signal travels around the outside of this (skin effect) it is lost through the dielectric to the outer cage. The receive signal is also limited in the same way and although a linear could be used on the transmit no commercially available pre-amp could make up such a difference. So if you want to send signals any distance and co-ax is the only choice the more expensive

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heavier core cables would have to be used.

Steve also showed how a badly matched aerial will not work either even when used with an ATU, Ok the ATU will match to the rig so it doesn't lose any signal power but the feed to the aerial will still be ineffective as heat will be lost in the ATU. The ATU cannot improve the inefficiency of the aerial although if an SWR meter was placed between the rig and the ATU it would appear to be doing so.

The age old problems of bad terminations were also explained and of course the old favourite of water entering the co-ax through a badly sheathed connection, after all, it must be remembered that co-ax is only a hosepipe whether it carries radio signals or water.

A very enlightening evening - thank you Steve.

73's - Peter G4VTO

## Lifetime Licences

Dave G6FSP and  
Pam G7SME

### How to get a licence - an idiots guide

There you are, a pass certificate in your hands just itching to get on the airwaves. Now all you have to is get your licence.

Having just experienced the "joys" of navigating the Ofcom website to register a new M3 licencee, it wasn't as easy and straightforward as I was led to believe.

You have to log on and register yourself, supplying of course your name, address candidate number, date of birth. You are also asked to generate a password and also a question with an answer should you need to verify yourself.

You then have to wait for at least five days for the registration confirmation letter to be posted to you (if you are lucky!).

Time and Ofcom permitting you log on again. If you use the website address on this letter, you have to navigate "round the houses" again until you reach the

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page for registrations and new call signs.

We have found an easier route, log onto:

[www.ofcom.org.uk/licensing/olc](http://www.ofcom.org.uk/licensing/olc)

This will take you straight to the correct page.

You are asked for your registration confirmation (on the letter) and then the password you were asked for in your original registration request.

Click onto the done box, eventually it will come up with a new page with your name address and other details.

Click onto the confirm box and it takes you to another page where you are asked for your candidate number from your pass/fail certificate.

You then have the opportunity to choose your own call sign.

There is a little icon to the right of the call sign field, I found it impossible to choose the call sign I wanted, and so I left it up to the computer to choose one for me.

Once a call sign has been generated, click the confirm box, and you are on another page

where you are asked to click "ticks" in question boxes, basically they are confirming you age etc. You then are asked to read the terms and conditions of your new licence, if you are happy with this, click on save and confirm. Print the pages - sorry there are 24 pages to the licence, but it does include terms and conditions and it is a requirement of the licensee to keep a paper copy.

Please don't take too much time reading the conditions, I did and the page timed out, making it really awkward to get back to this page again.

Once the pages have been printed, you can get on the air.

Have fun with your new hobby, we'll see you on the air (so to speak).

#### Converting your existing licence into a lifetime licence

You need to log onto the Ofcom Web site as above and register your details. You will need your first and last names, an e-mail address, specify a password (which must be between 7-15 letters long and include upper and lower case and numerals), and a challenge question and answer in

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case you forget your password. Please bear in mind that you will need to remember your password and associated question for use again in five years time! It will be a good idea to write down the user name and password that you used with your licence as in five years time you may not be able to remember it!! (or at least keep the Ofcom letter with your paper copy of the licence but this does not include your password).

You will be sent user name confirmation letter in the post. You will then have to log onto the same site address, using you log on name that is sent to you in the post and the password that you specified before.

This will then take you to a screen that will list the licence's that are registered to you personally at your address - this will not include group or club licences

If you then click onto the Licence link then follow the instructions to validate your licence as appropriate and you will end up being able to print out your licence.

When you go back to your home screen again you should see that

your licence has now been validated.

We have found that you do not need to wait until your renewal date before you can validate your licence.

Some of the frequently answered questions from the Ofcom Web site are as follows:

- **What will happen if I don't renew my radio licence before the new lifetime licence regime starts?**

Ofcom will not send you a lifetime radio licence. If you choose to use your radio equipment you will be operating illegally and subject to enforcement penalties.

- **What is a validation reminder?**

If you have not made any amendments over the past five years, Ofcom will send you a validation reminder once every five years. You are required to positively respond to this reminder by informing Ofcom that still required your radio licence, or if you wish to surrender your radio licence.

• **What will happen if I don't validate my radio licence after five years?**

In line with the terms and conditions of the radio licence, Ofcom will issue you a "Proposal notice of revocation". From the date of this proposal notice you have one calendar month and one day to make representations that you wish to keep your radio licence. If you do not respond or you are unsuccessful in your representation, Ofcom will issue you a "Notice of Revocation" which means you can no longer use your radio apparatus in accordance to the letter and the terms and conditions of the radio licence.

• **What are Notice of Variations?**

The following is a list of NoVs:

- Contest Call sign
- Special Events
- 5MHz Experiment
- Repeaters
- Repeater with Internet Gateway
- Simplex Internet Gateway

For more information on NoVs please contact the Ofcom Licensing Centre (Tel. 020 7981 3131).

• **I am under 18, do I need to pay for my amateur radio licence if I submit it using a paper based form?**

Yes, if you apply using a paper based application form it will cost £20 but if you choose to apply on line it is free

• **I am over 75, do I need to pay for my amateur radio licence if I submit a paper based application form?**

No. Paper based applications will only be free for applicants that are over 75 years of age and over.

• **I represent a registered charity, how do I qualify for a discount on my radio licence?**

Ofcom would like to advise the charity to use the online system. On supplying the correct information, the licence will be issued electronically for FREE. A paper application form will attract a £20 administration fee.

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- **What is a club licence?**

It covers all users that belong to that particular licensed club.

An application for club licence must be supported by 2 other named individuals who all hold individual amateur Full radio licences.

- **How do I apply for an Amateur Club Licence?**

- To apply for the Full (club) radio licence, the applicant should use the Full radio licence application form. You can't apply for a Full (club) radio licence online. The charge for this will be £20

- **Do I need to keep a paper copy of my radio licence?**

Yes

We hope that this gives you an insight into how to apply for or validate an Amateur Radio Licence.

If there is anyone out there that wants to save themselves £20.00 for the paper licence as they have not access to the internet, please feel free to contact Dave G6FSP or Mark G7LJN and we will do it for you on line. The fact that you have not got an e-mail address is not a problem; we will supply one

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for you via TARS. We would also add that we are bound by the Data Protection act to protect your privacy (in case you are worried about identity theft) and we will destroy any details that we may hold about you once your licence has been validated. Also feel free to call us if you are having problems with your on-line application.

### Licence changes

Now we have seen the printed copy of the new licence, the main changes are involving:

- Unattended operation
- Withdrawal of allocation frequencies in the 75.5-76.0GHz and 142 - 144 GHz Bands
- New allocation of frequencies in the 28 -29.7Mhz band for Foundation and Intermediate Licence holders.
- The re-introduction of the /A suffix for use at alternative address - contrary to what we were told this does not need separate notification to the local Ofcom office - so look out for G3NJA/A from the Torbay Area soon!

- Third party traffic is now allowed for all licence holders - this was formally restricted to just full licence holders only. This is a major step forward and means that Foundation and Intermediate Licence holders, who were previously prohibited, due to their licence terms and conditions, may now take an active part in Emergency communications exercise's and events.

The restrictions on maritime mobile and operation in a foreign country still exist for Foundation and Intermediate licence holders.

We would suggest that all members should register for their new licence when they can so that they may benefit from the new terms and conditions as the new conditions have not been published in the gazettes (to the best of our knowledge).

We hope that this review is of some help and do remember we are to help you - so give us a call and we will do our best to assist. These are our own interpretation of the new Licence arrangements.

Dave and Pam

## T.A.R.S. 60<sup>th</sup> Anniversary, 2007

### GB6OTR - Special Event Call

#### Sign - Derrick G3LHJ

The Call Sign of GB6OTR has been confirmed for the month of February and will be operational from the Society's HQ on Friday Evenings, all day on Saturday 24<sup>th</sup> February from HQ which is the 60<sup>th</sup> Anniversary day. I propose to apply for the Call sign to operate from my QTH during March, so I will be looking for other members to come forward for the rest of the year, I will do the paper work, just let me know which month you are prepared to operate as GB6OTR.

During GB5OTR we used the logging program LogEQF, not to worry if you don't has a PC, a paper log will do.

QSL's cards have been printed and the aim is to QSO as many stations as possible in your spare time.

Any more info required, please give me a call.

Derrick G3LHJ

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### Anniversary QSL Cards for Members - Colin G4FCN

As advertised in the last edition of TARS TALK members can order anniversary QSL cards that they can then write in (or print for those with technology) their own details.

The QSL card which has been produced in sepia (as depicted on the front cover) shows the Torbay Amateur Radio Society's Field day site in 1947.

The cost to members is £10 per 100, collected either from G4FCN's QTH or Club Headquarters on a Friday Evening.

If you would like them posted to you then the cost will be £11.75 per hundred. (UK only, please ask for overseas rates). Please let me know your requirements. We currently have 1000 cards, but reprints will be available should they be required. Please make cheques payable to Torbay Amateur Radio Society - please send your cheque with your order.

Colin - G4FCN

### Anniversary Day Arrangements - 24<sup>th</sup> February 2007

The HQ will be open from 08.00 for setting up the various stands. At present we have the following people providing stands:

- Henry Westlake - for all you components.
- GB3TB Television Group - a demonstration of Television activities hopefully with live feeds from around Newton Abbot and Torbay.
- TARS Training, Membership and information desk - we need help to man this desk from people who can explain amateur radio in layman's terms, trying to skip the jargon.
- RSGB Books - for all your reference books and information about Amateur Radio.
- GB6OTR special event station demonstrating CW, Voice, and Data-modes. We will need help from you again with this stand as Derrick (our President) will be needed to meet and greet people as required.

- Refreshment Room - There will be light refreshments during the day; this will take the form of sandwiches with tea and coffee. A small charge (25p) will be made for this. Help is needed from people, preferably that have a food hygiene qualification, as the event is open to the public.

The doors will be open to the public from 10.00 to 16.00. The Mayor will be in attendance sometime during the day.

There will be no charge to visit the event BUT you will need to "pay and display" in the car park. There are no concessions even for those providing and managing the stands. These rules are Teignbridge council's and not ours. The car park charges are as follows:

Next to the event:

£2.60 up to four hours, £3.60 all day.

Asda Car Park:

£1 - One hour, £1.50 - Two hours  
- You will get your money back if you spend more than £5 in Asda.  
£2 - Three hours (Maximum).

We hope you enjoy the day and we look forward to seeing you there.

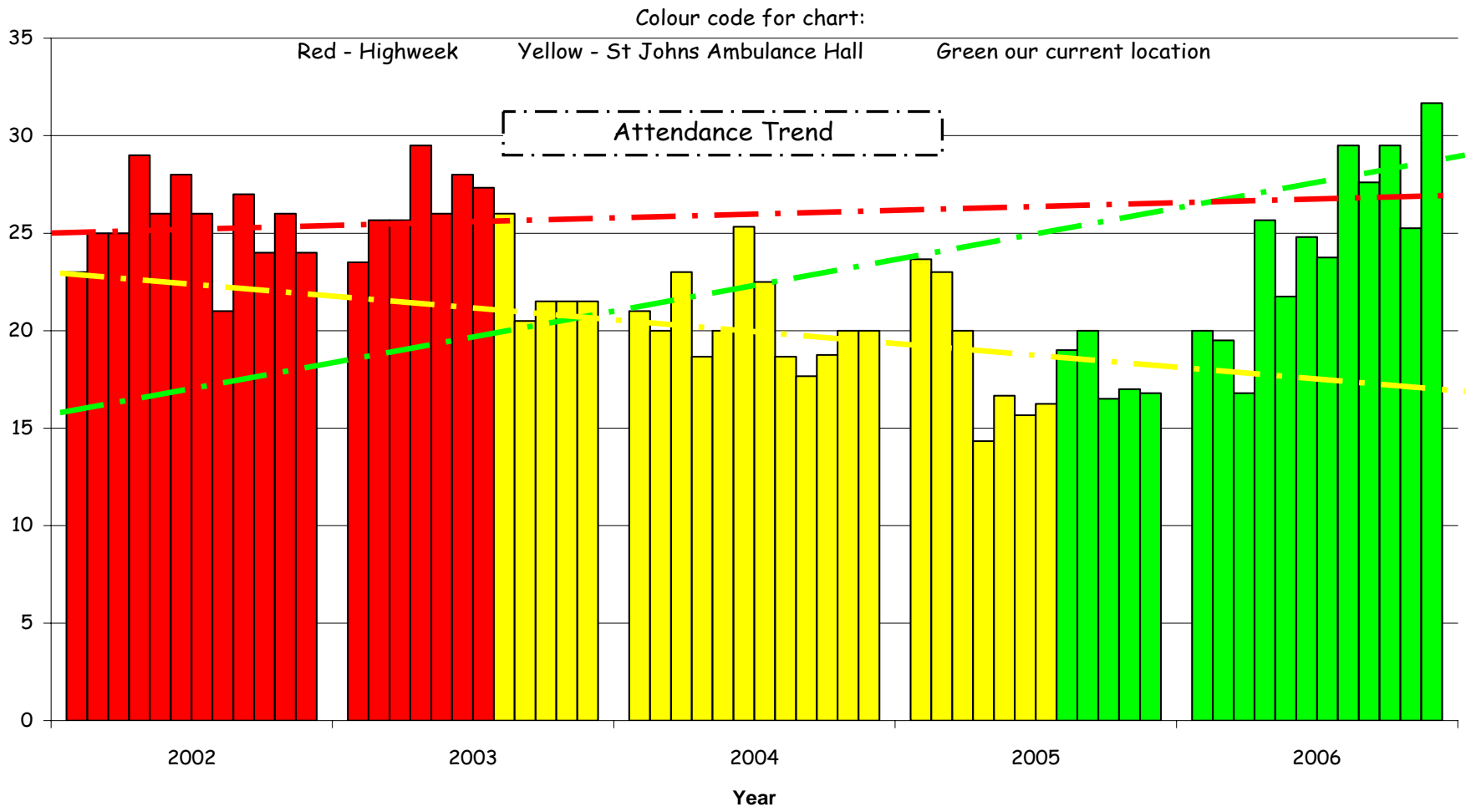
## Webmasters Report

Brian - G1EUA / VE7BRN

Firstly let me wish all members of TARS a very prosperous New Year and many happy hours on the air.

Those of you who view the website regularly will see that numerous small changes occur from time to time; this is to keep the website up to date and also to show that the website is constantly under review. The website has now been updated with a new look. There is no longer a fixed menu at the left side of the pages. This has been replaced by a sliding menu at the left side of the page, activated by passing the mouse over the protruding edge of the menu. This menu is resident on all pages except those that are behind the protection of the Members Login page, each page has been checked and verified that all links are correctly accessed with no delay. I would ask all of you to access the web site and look at every page and also activate the links.  
..... continued on page 20.

**Torbay Amateur Radio Society Average Attendance Numbers 2002 - 2006**



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*Continued from page 17*

A lot of effort and time has gone into this update by me with inspiration from Colin. If you have any comment on the website please let me know

Since the last webmaster report the website has undergone a relocation of server to overcome the problem of download speed, you should all have noticed a great improvement on this and also with the download speed of the PDF documents within the website.

For those who are unaware the previous host server was at QSL.net in the USA and this suffered greatly from overload.

We have been very fortunate in having David M1AEI allowing Tars to use part of his server as the host for Tars website and for this we are very grateful to David for this facility.

This server is hosted in UK and has more than enough bandwidth to accommodate TARS Website.

That is all the news from the webmasters shack for this time and it just remains for me to wish you 73 or 88 as appropriate.

Brian Wall G1EUA / VE7BRN  
webmaster@tars.org.uk

## The TARS 30 Awards

Three new TARS 30 Awards have been issued since the last TARS TALK:

- Number 66 to John MOHEM - a non member of the society
- Number 67 to Eddy MOEDY
- Number 68 to John 2E0ZEO.

Congratulations to you all.

Two other members took up my offer to replace their old looking Certificate with the re designed one, and they were George G3BIT and Brian G1EUA.

So, if you would a nice new looking TARS 30 Award for your shack wall then the cost is £1. Don't worry if you can not find your old Certificate - I have all your QSO details and certificate number issued.

If you want to obtain further "Stickers", (they are issued for additional 10 different members), again if you have not got your previous claimed list of QSO's, let me know and I will give list of your current points.

Good hunting and see the TARS WEB site for full details of the Award.

73/88's de Derrick G3LHJ

TARS Awards Manager.

## Obituary of Pat Townley G3BVW. 1917 - 2007



Pat passed away in the presence of his family on the 27<sup>th</sup> December 2006

at his home in Moretonhampstead, a double sadness in that Pat lost his Xyl Jane just 2 months ago.

Pat was born on the 8<sup>th</sup> October 1917 in Jamaica, he did service in the RAF for 36 Years and saw active service in WW2 as a Middle Gunner / Wireless Operator in Blenheim & Lancaster Bombers, and was a Flt Lieutenant.

He was the Post Master of the village Post Office in Whiddon Down with the help of his Xyl Jane. And on retirement they moved and settled down in Moretonhampstead, where we started to hear G3BVW, Pat joined TARS around 1985/6, I got to know Pat when I worked for British Gas and had to call on Pat to see to a problem on his Central Heating, and there is no secret where I landed up after fixing his problem - his out-side wooden Ham Shack. Pat loved his Radio and was quite active, mostly on CW with his home brew wire Antennas, he did surcome to the "PC" but they did not get on very well as a few of our TARS member PC buffs will know Hi.

Pat was very deaf, but that did not deter him enjoying his hobby with the help of special hearing aids, he was not a very regular visitor to TARS HQ, but when he did make it through winding roads from Moreton, we enjoyed his interesting stories.

Pat was a member of RAFARS Nr 2020 & G-QRP-Club Nr 3970.

From TARS Our Deepest sympathy to his 3 children Hugh, Rob, Caroline & Family with which George G3BIT & I met and chatted to at Pat's Funeral on Monday the 8<sup>th</sup> of January 2007.

Derrick Webber G3LHJ.

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## Tips and Techniques for the Workshop - 5

Colin G4FCN and Peter  
G4VTO

### Testing multi-pack Battery packs:

If you need to check the current drawn by a piece of equipment that uses multiple cells in its battery pack, a small piece of double side printed circuit board with a pair of wires soldered on will slip in between two cells in the pack and allow the multi-meter to be easily connected. Keep it with your meter.

A further refinement to this tip would be to solder a pair of sockets to the pcb to allow the connection of the meter test leads.

### Drilling round antenna booms:

Ever built a VHF/UHF multi-element Yagi antenna, using a round boom? When you look down the boom, do the elements look like a cork-screw?

The easy way round this is to put an exhaust clamp round the boom and fix a small spirit level to it. Before drilling the element hole at the previously marked position, ensure that the level indicates

that the clamp is truly horizontal. You will get an antenna with the elements all in perfect alignment.

Note that you DO need to use a pillar drill for this - don't try free hand drilling, else the spirit level will be a waste of time.

### Using Washing up liquid as a workshop tool:

1. When using a grinder or power sander on aluminium, rub some soap or a squirt of washing up liquid on the grinding disc - it will stop the aluminium dust clogging the disc.
2. Another useful tip for washing up liquid - a small drop on the thread of a wood screw before driving it into a plastic rawlplug will make the job much easier.
3. If you are doing some concreting, a squirt of washing up liquid will take the place of commercial plasticiser which helps bring the surface to a reasonable finish and makes the concrete or cement easier to work up.

Colin G4FCN and Peter G4VTO

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## Just Supposing

Peter G4VFG

It's February 2007 and TARS is celebrating its 60<sup>th</sup> birthday. At a local Scout HQ there is much excitement because it is the Saturday birthday bash.

Everybody who is anybody has turned up to welcome the masses of people expected to visit the Society open day. The chairman has requested maximum effort to encourage newcomers into the hobby of ham radio. Now there's a thing. Just supposing someone asks you what the hobby is all about, and why you get excited about it, using one or two sentences? What would you say? aargh! Front end overloaded! It was such a long time ago that most of us have forgotten how it all started and why?

Here then is where the story starts:

Our man Fred thought, upon receiving such a question, and answered that it was about talking to people, making friends, learning about the world, learning to use technology, and above all having fun. Fred hoped his answer was a good one because

this first encounter could start a lifetime's interest, or cause the newcomer to disappear as fast as on opening on ten metres!

Noting that he still had the person's attention he followed by asking, "Now can I ask what you are interested in, how much time to spare, how much space do you have for aeriels, and last but not least, how much money you wish to spend."

Fred always someone not afraid to cut to the chase, added that somebody with no time, no space and no money would not last five minutes. He could hear the "Ah buts, Yes buts, no buts", but knew that the guy with the big beam, big linear, and big bucks would get most of the action. Perhaps he had listened to too many Americans, but then he enjoyed talking to them and liked their sense of humour. A 1Kw, a 10 element log periodic at 100 feet and an FT 2000 - just a modest set up. Yeah right!

The young man thought, and replied that computers, photography, and modern technology were of interest, and perhaps in the future foreign travel. Fred was impressed, and

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relieved that the young man, who was called Jason, did to his mates, zapping bad guys on the X-box, drinking Alco pops and digging urban sounds down the club, and all that old YDPF stuff.

In the club room there were such delights as Digital communication, TV, Echolink the DX cluster and all manner of pastimes which could use computers. Of course there were several ham radio setups use more traditional methods of phone and morse. It was strange to reflect that now morse is no longer obligatory, it has become even more popular, and like the vinyl record is not about to lie down and go away. Fred left young Jason to the computer buffs, and for a cup of tea. He thought that being a few years away from a free bus pass, and a fuel allowance, he was not mentally wired up for computer work at least not for fun anyhow.

For Fred it was the old Marconi all band wireless set, then the first Crystal set he built. This was "real radio" he reflected, and the fun of using wire aerials and low power to communicate still gave endless pleasure.

Eventually Jason caught up with Fred and remarked that having watched one of the club experts on a 1000MP it was too expensive and had too many knobs! At one time a Ham would buy a receiver and spend time listening, to gain experience. Today in the world of the instant hit, thought Fred, the best advice he could give was to go ahead and buy a transceiver with general coverage and even better VHF and UHF Air band and VHF broadcast for when the bands are flat! Fred answered that being a Yaesu man, he would advise looking at their range. He however added that getting a cross section of opinion from local club members would be sound, and then looking at stalls at radio rallies, plus a read of Practical Wireless would prove useful. Fred wondered if he had done enough to fire this young person's imagination. Perhaps after cars, girls, music and beer, he would take the plunge and join the hobby, or maybe he would be one of the unique band of diehards who eat, sleep and breathe Ham Radio. Time would tell.

There the story takes time out. The characters are fictitious and

any resemblance to any living persons is coincidental!

Happy New Year to all, and may the force be with you, and as always the very best of good listening.

Peter G4VFG

ISWL G20322

\*\*\*\*\*For Sale\*\*\*\*\*

### Anniversary Polo Shirts

\*\*\*\*\*

Different Colours available:

Gold embroidery on a Blue shirt or  
Black embroidery on Grey shirt.

Size's:

24", 26", 28", 30", 32",  
S, M, L, XL, XXL

Cost:

£15.00 (24", 26", 28", 30", 32", )  
£17.50 (S, M, L, XL, XXL)  
£2.50 Post and Packing

Sweat Shirts available for £20



Logo Design

Contact Pam G7SME

## Training Topics

Larry M1ARW

We are planning a full program of courses again this year:

### Foundation:

Two Courses, one on 13<sup>th</sup>/14<sup>th</sup>  
April and one in  
October/November.

### Intermediate:

One course in the summer.

### Full:

One course this year.

All courses will be subject to a minimum of five people to make it worthwhile to run. If we are inundated with applications for any course we will run extra ones to satisfy demand. So get your applications in as soon as possible.

If any member knows of someone that is interested in sitting the exam, please get them to email or write to the Training coordinator for an application form.

If any one is interested in helping in running a course but not sure what is involved you can look at the syllabus of the course on the RSGB web site

[www.rsgb.org/tutors/](http://www.rsgb.org/tutors/)

Larry M1ARW

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## Chadwell Radio Club

The TARS Committee have kindly agreed to allow us to invite members to a new Radio Group which is being formed by three of our club members. We have acquired a meeting room at the Chadwell Centre. This is a Disability Centre in Preston, Paignton (TQ3 2DW for those with Sat-Nav) - just off the main Paignton to Torquay sea front road by the Shell garage next to Hollacombe Garden (it is signposted).

Club evenings are on a Thursday from 7 - 9 p.m. We hope you will be able to come along, have a coffee and a chat and talk with other Amateur Radio enthusiasts. As the Group is new, our aims are to welcome any member and any ideas or suggestions for club evenings. There is no membership to the group at this stage, only a small fee of 50p is charged each evening.

If you are interested, or have any queries, please e-mail Sue Bingham on [jbinghamc@aol.com](mailto:jbinghamc@aol.com) or ring/fax on 01803 - 528360.

We look forward to hearing from you soon.

Sue Bingham - SWL

## HF Contest News

Derrick - G3LHJ

We are still coming to the bottom of this Sun Spot cycle and conditions have been very changeable making a few of the contests quite a challenge, especially if you entered the QRP sections, but things can only get better.

We have gained another keen contest member, John 2E0ZOE, on all modes which will be a big help in the forthcoming 80M Club Championships that start again in February. I will be sending out my little leaflet with all the dates, times etc before it starts. If you did not receive a leaflet last year and want to join in with this year's effort then come and see me or give me a call.

It's TARS Contest time again and all entries to be handed in at the January 2007 Monthly Meeting, all the details/entry forms are on the TARS Web Site under "Contests". Please read the rules and use the entry forms - the dead line date is 31<sup>st</sup> Jan.

Friday March 23<sup>rd</sup> is TARS Presentation Evening when we will know who has won what.

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CONTESTS ENTERED BY  
MEMBERS

2006 Russian Radio RTTY Contest.

Ken G3SNU - 32 Q's - 28 Mults - 170 Pts - 4700 Total Points.

Derrick G3LHJ - 13 Q's

2006 CQ WW RJ RTTY Contest.

Ken G3SNU - 219 Q's - 134 Mults - 476 Pts - 63,784 Total Points.

Derrick G3LHJ - 170 Q's - 69 Mults - 352 Pts - 24,288 Total Points.

2006 TARA PSK Rumble Contest.

John 2E0ZEO - 39 Q's - 33 Mults - 39 Pts - 1287 Total Points.

Ken G3SNU - 36 Q's - 21 Mults - 36 Pts - 756 Total Points

Derrick G3LHJ - 36 Q's - 18 Mults - 36 Pts - 648 Total Points.

2006 JARTS RTTY Japan Contest.

Ken G3SNU - 245 Q's - 113 Mults - 572 Pts - 64,636 Total Points

John 2E0ZEO - 208 Q's - 79 Mults - 448 Pts - 34,392 Total Points.

Derrick G3LHJ - 94 Q's - 47 Mults - 210 Pts - 9,870 Total Points.

2006 October FOC Bill Windle Qs0 Party.

Derrick G3LHJ - 55 Q's - only 8 Q's this time with non FOC Members.

2006 CQ WW DX SSB Contest.

John 2E0ZEO - All QRP Section - 105 Q's - 71 Mults - 110 Pts - 7810 Pts

Derrick G3LHJ - 35 Q's - (just picking up countries for TARS Contests).

2006 Ukraine DX RTTY Contest

Derrick G3LHJ - 135 Q's - 62 Mults - 573 Pts - 35,526 Total Points

Ken G3SNU - 108 Q's

2006 RSGB Top Band Club Calls Contest.

Ken G3SNU - 83 Q's.

Peter G4VTO 36 Q's.

John 2E0ZEOI - 30 Q's.

Geoff G3GHS - 17 Q's.

G3BIT - 5 Q's. (I tried but NG wid 80M loaded Dipole)

2006 Edgeware Activity Period.

John 2E0ZEO - 16 Q's.

Geoff G3GHS - 31 Q's,

GX3NJA (op G3LHJ) 19 Q's

2006 WAE DX RTTY Contest.

John 2E0ZEO - 130 Q's - 217 Mults - 132 Pts - 28,644 Total Points

Derrick G3LHJ - 120 Q's - 78  
Mults. - 120 Pts. - 9.360 Total  
Points

Ken G3SNU - 63 Q's. -.

2006 PSK63 Contest:-

John 2E0ZEO - 228 Q's - 171  
Mults - 907 Pts - 155,097 Total  
Points

Eddy MOEDY - 158 Q's - ?? Mults  
- 579 Pts - 78,165 Total Points.

2006 Russian DX CW Contest

John GORDO - 15M LP - 50 Q's -  
7700 Points.

2006 King of Spain CW Contest

John - 15M LP - 44 Q's - 1979 Points.

2006 CQWW CW Contest:

Steve G4EDG -SO QRP 160M - 291  
Qs - 69 Mults - 359 Pts - 24,771 Pts  
Derrick G3LHJ - SO QRP 20M - 372  
Q's - 97 Mults - 748 Pts - 72,556  
Points

John GORDO - SO Low Power 15M -  
156 Q's - 64 Mults - 334 Pts -  
21,376 Pts

2006 TARA Meleey RTTY test

Ken G3SNU - 35 Q's

Derrick G3LHJ - 22 Q's

2006 OK DX RTTY Test

John 2E0ZEO - 150 Q's

Ken G3SNU - 65 Q's

Derrick G3LHJ - 32 Q's.

2006 ARRL 10M CW Contest

Derrick G3LHJ 13 Q's (Conditions  
terrible)

### CONTEST RESULTS

2005 TARA PSK Rumble

Derrick G3LHJ - 15<sup>th</sup> & 1<sup>st</sup> Place G  
Stn.

2005 ARRL 10M CW Contest.

Derrick G3LHJ - 1<sup>st</sup> Place G Stn.

2005 OK/OM DX CW Contest

John GORDO - SO 15M LP - 9<sup>th</sup>  
Place.

2005 Russian DX CW Contest

John GORDO - SO 15M - 31<sup>st</sup>  
Place.

2005 RSGB Championship

Derrick G3LHJ - 15<sup>th</sup> Place out of  
85.

2006 RSGB ROPOCO 1

Derrick G3LHJ - 23<sup>rd</sup> Place.

2006 RSGB Commonwealth CW  
Contest

John GORDO - Restricted - 31st

2006 RSGB IOTA Contest

Derrick G3LHJ - SO - 12 Hr CW -  
2<sup>nd</sup> World.

2006 RSGB Low Power Field Day.

Derrick G3LHJ - 10W Fixed -  
10th

2006 RSGB ROPOCO 2

Derrick G3LHJ - 20<sup>th</sup>.

2006 SPDX RTTY  
Derrick G3LHJ - 257<sup>th</sup> - 7<sup>th</sup> G ,  
out of 356 entries.

2006 EPC PSK63 Contest  
John 2E0ZEO -12<sup>th</sup> & 1<sup>st</sup> G - (Won  
2M H/H)  
Eddy MOEDY - 72<sup>nd</sup> out of 188  
Entries.

### FORTHCOMING CONTESTS

#### JANUARY 2007

Sat - Sun 27-28<sup>th</sup> Jan - 00:00 -  
23:59 - CQ 160 Meter Contest -  
CW

Sat - Sun 27-28<sup>th</sup> Jan - 06:00 -  
18:00 - REF Contest - CW

Sat - Sun 27-28<sup>th</sup> Jan - 12:00 -  
12:00 - BARTG RTTY Sprint  
Contest . Ex RST + S/N

Sat - Sun 27-28<sup>th</sup> Jan - 13:00 -  
12:59 - UBA DX Contest - SSB.

#### FEBRUARY 2007

RSGB Club 80M Championships  
20:00 - 21:30 Local

SSB - Mon 5<sup>th</sup> Freq: 3.600 -  
3.650 and 3.700 - 3.750Khz  
DATA - Wed 14<sup>th</sup> Freq: 3580 -  
3590Khz.

CW - Thur 22<sup>nd</sup> Freq: 3510-  
3590Khz

Sat - Sun 3-4<sup>th</sup> Feb - 00:00 -  
23:59 - YLISSB QSO PARTY -  
SSB/CW

Sat - Sun 3-4<sup>th</sup> Feb - 18:00 -  
17:59 - Mexico International  
RTTY Contest

Sat - Sun 10-11<sup>th</sup> Feb - 00:00 -  
23:59 - CQ World-Wide WPX  
RTTY Contest. Ex RST + S/N

Sat - Sun 10-11<sup>th</sup> Feb - 12:00 -  
11:59 - Dutch PACC Contest -  
SSB/CW

Sat - Sun 10-11<sup>th</sup> Feb - 21:00 -  
00:59 - RSGB 1<sup>st</sup> 1.8Mhz Contest  
- CW. Ex RST + S/N + TQ

Sat - Sun 17-18<sup>th</sup> Feb -00:00 -  
23:59-ARRL International DX  
Contest - CW. Ex RST - Your  
Power Output.

Fri - Sat 23-24<sup>th</sup> Feb - 21:00 -  
21:00 - Russian PSK WW Contest  
- PSK31

Sat - Sun 24-25<sup>th</sup> Feb - 00:00 -  
23:59 - CQ WW 160 Meter  
Contest - SSB

Sat - Sun 24-25<sup>th</sup> Feb - 06:00 -  
17:59 - REF French Contest -  
SSB

Sat - Sun 24-25<sup>th</sup> Feb - 13:00 -  
12:59 - UBA Belgium DX Contest -  
CW.

#### MARCH 2007

RSGB 80M Club Championships -  
20:00 - 21:30 Local  
DATA - Mon 5<sup>th</sup> Freq: 3580 -

3590Khz.

CW - Wed 14<sup>th</sup> Freq: 3510-3590Khz

SSB - Thurs 22<sup>nd</sup> Freq: 3.600 - 3.650 and 3.700 - 3.750Khz

Sat - Sun 3/4<sup>th</sup> - 00:00 - 23:59 - ARRL Int DX SSB Contest- ex RS+PWR

Sat - Sun 10/11<sup>th</sup> - 10:00 - 10:00 - Commonwealth CW test - ex RST + s/n

Sat - Mon 17/19<sup>th</sup> - 02:00 - 02:00 - BARTG Spring RTTY Contest. Ex RST, S/N & Time (GMT)

Sat-Sun 24/25<sup>th</sup> - 00:00 - 23:59 - CQ WW WPX SSB Contest, ex RS+S/N

APRIL 2007

RSGB 80M Club Championships - 20:00 - 21:30 Local

CW - Mon 2<sup>nd</sup> Freq: 3510-3590Khz

SSB - Wed 11<sup>th</sup> Freq: 3.600 - 3.650 and 3.700 - 3.750Khz

DATA - Thurs 19<sup>th</sup> Freq: 3580 - 3590Khz.

Sun 1<sup>st</sup> 07:00 - 09:00 - RSGB ROPOCO CW - on 3520 - 3570 Khz Ex RST + Postcode received

Sat - Sun 7/8<sup>th</sup> 16:00 - 16:00 - EA RTTY Contest, ex RST + S/N

Sat - Sun 14/15<sup>th</sup> 07:00 - 13:00 - Japan Int DX CW Contest, ex RST+ ur Age.

Sat - Sun 28/29<sup>th</sup> 12:00 - 12:00 - SP DX RTTY Contest, ex RST + S/N.

Sat - Sun 29/29<sup>th</sup> 13:00 - 13:00 - Helvetia Contest - CW/SSB/Data Ex RS(T) + S/N.

All contest times are GMT, if there is no exchange details stated then listen to what's being exchange before you have a go, and as I have said before there are quite a few more smaller contest listed in SM3CER web site calendar.

Jon GOCDDB our Field Contest Manager is trying to drum up support for TARS to enter some Major Field Days contest again this year, regrettably I had to give up organizing of those events due to health reasons, but it would be great if some of you would support Jon in putting on Field Days again, we did so well in the past.

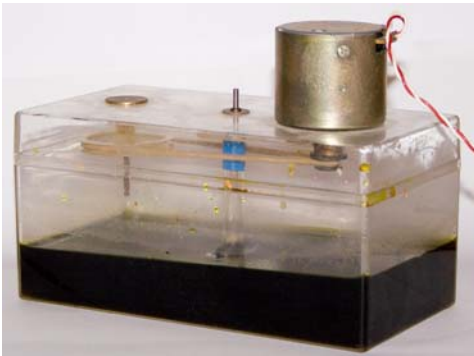
That's it for this time, good luck with your contesting and let me have your results.

Derrick - G3LHJ

## Etching PCB's

Colin - G4FCN

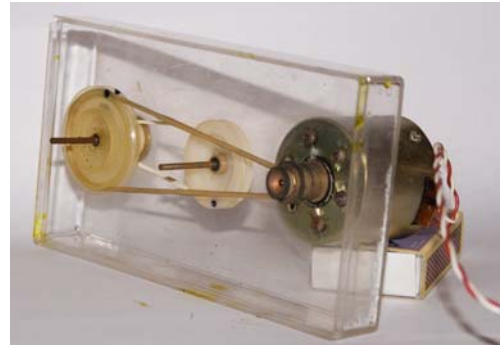
Several members have asked me how I etch my pcb's, so I thought, as our editor is always on the lookout for copy for the magazine, I would put fingers to keyboard and try to describe the construction of the etching tank I am currently using. It does have its faults but all in all it works very well for smaller boards.



As can be seen from the picture, above, the tank is constructed using (an empty) Ferrero Rocher choccy container. Look out for the older ones that have a square removable lid, rather than the later hinged lid variety. Some of the containers have rounded corners, these can also be used, the important thing to check for is that there are no splits or cracks present.

The motor and pulleys were recovered from a defunct video

recorder. The motor used is a 12 volt device which will run quite happily on 6 or 7 volts, although still runs too fast. We are looking for an agitation speed of something like 60 - 75 rpm, hence the pulley arrangement. Belts are small elastic bands:



Start the construction by mounting the motor on the inside of the box lid, taking care not to split the plastic when drilling the spindle and fixing holes. The centre hole may need to be made quite large if the motor pulley cannot be removed from the shaft. The spindles for the intermediate pulleys are also fitted into the lid and secured with epoxy adhesive. When looking for pulleys and spindles, try to find ones with a mounting boss at one end, it makes them much easier to fit to the lid and to ensure that they remain square to the mounting. You will need to experiment with pulley sizes and

motor speed to get the final paddle speed correct, although it's not critical (slower is better than fast - too fast and you will throw all the etchant out of the tank).

You will have to use your own ingenuity for the construction of the paddle. Mine is made from the sleeve of a BIC biro pen with a small piece of flat plastic glued into a slot cut in one end. The other end is a push fit over the boss of the centre pulley.



When cutting the stem, the bottom of the paddle should be between 5 and 8 mm from the bottom of the box with the lid in place. Too big a gap will require more etchant liquid, too small and

it may touch the board being etched.

In use, about 15 to 20 mm of etchant fluid is put in the box, the board put in and the lid and paddle assembly replaced, and the motor switched on. (Don't switch on the motor before placing in the fluid, and make sure it is turned off before removing it).

Periodically check the board during etching and remove when all the unwanted copper is removed. When complete, remove the board, thoroughly wash and dry it, remove the etch resist, drill and complete the construction of the project.

Improvements. With the single centre paddle, the maximum board size is about 50 by 25 mm to maintain an even etching. By fitting the a suitable motor in the middle of the lid, and with suitable pulley sizes, a paddle could be fitted at each end of the box. This would allow a more even agitation when etching larger boards. A bigger paddle could also help.

I hope that this helps.

73's Colin G4FCN

<b>Dates for Your Diary</b>		
<p>I would encourage members to take note of the revised dates for Monthly Meetings. I have listed all the dates below although a lot of the meeting subjects still need to be confirmed. These dates have been altered so we can ensure that we have the downstairs room in the Societies HQ at the Teignbridge District Scout Building.</p>		
January 26 <sup>th</sup>  <b>NOTE:</b> <b>NEW DATE</b>	Monthly Meeting	Construction Cup  Bring along your construction items to the club to win that coveted award - there are separate categories for Kits and home brew as well as a section for the Junior members.
February 23 <sup>rd</sup>  <b>NOTE:</b> <b>NEW DATE</b>	Annual General Meeting	The Secretary hereby gives notice to members that the annual general meeting of the Torbay ARS will take place at 20.00hrs. Members who require anything to be raised at the meeting should notify the Secretary by 2 <sup>nd</sup> of February. Nominations for committee posts will be posted on the HQ Notice board. Alternatively they can be e-mailed to secretary@tars.org.uk.
February 24 <sup>th</sup>	TARS 60 <sup>th</sup> Anniversary open day	To Celebrate the Sixtieth Anniversary of the Torbay ARS there will be an Open Day at the Scout HQ. See Article on Page 17 for more details
March 3 <sup>rd</sup> /4 <sup>th</sup>	Field Contest	March 144/432  Our first Field contest of the year - we have been previous winners of the low power section of this contest. Further information is available from John GOCDB or Dave G6FSP
March 23 <sup>rd</sup>  <b>NOTE:</b> <b>NEW DATE</b>	Presentation Night	Entry will be by ticket only - the cost of which will again be just £5.00 per person (this being held now at this price for the last 5 years) and they will be available from members of the committee. For your ticket you will be able to be able join in and enjoy the buffet as well as help celebrate the achievements of members in 2006.
April 27 <sup>th</sup>  <b>NOTE:</b> <b>NEW DATE</b>	Monthly Meeting	90/10 Sale  Your chance to build up (or reduce!) the equipment in your shack

<b>Dates for Your Diary</b>		
May 18 <sup>th</sup>	Monthly Meeting	Talk by Jan Verduyn GOBBL on operating from Patagonia and travelling to Antarctica on the historic ship "Europa", illustrated with photo's and video clips.
June 2 <sup>nd</sup> /3 <sup>rd</sup>	Field Contest	HF NFD - Activity on all the HF Bands using CW. For further details please contact John GOADB.
June 22 <sup>nd</sup>	Monthly Meeting	Television Highlights Mark Jeff, G7LJN presents some more interesting broadcast TV from far and wide.
July 7 <sup>th</sup> /8 <sup>th</sup>	Field Contest	VHF NFD - Normally activity on all bands from 50MHz right through to 432MHz - enjoy the challenge! For further details please contact John GOADB.
July 20 <sup>th</sup>	Monthly Meeting	Subject to be confirmed
August 24 <sup>th</sup>	Monthly Meeting	Subject to be confirmed
August 26 <sup>th</sup>	Mobile Rally	The annual rally at Newton abbot Racecourse. This year's event will have Mr Angus Annan MM1CCR, the President of the Radio Society of Great Britain, opening the Rally and will be in attendance during the day for questions.
September 1 <sup>st</sup> /2 <sup>nd</sup>	Field Contest	144 Trophy and SSB NFD - Activity on all HF bands and a separate station for 144MHz all on SSB. For further details please contact John GOADB.
September 28 <sup>th</sup>	Monthly Meeting	Subject to be confirmed
October 26 <sup>th</sup>	Monthly Meeting	Subject to be confirmed
November 23 <sup>rd</sup>	Monthly Meeting	Subject to be confirmed
December 14 <sup>th</sup> (to be confirmed)	Monthly Meeting	Christmas party and Quiz Our chance to see if we can retain the trophy for the third year running.
Further Details can be found on the web site - <a href="http://www.tars.org.uk">www.tars.org.uk</a>		

## TARS Useful Information

**Meetings:** Teignbridge District Scout HQ, Wolborough Street, Newton Abbot  
Friday Nights - 1930 - 2230 - light refreshments available for a small charge

Postal Address: Torbay ARS, PO Box 155, Newton Abbot, Devon TQ12 6XP

### 2M Repeater - GB3TR

145.650 - Output

145.050 - Input

CTCSS Tone F - 94.8hz

### 23CMs TV Repeater - GB3TB

1316MHz Output

1249MHz Input

GB3TB is run by the Torbay ATV Group

### Other Useful Contacts

<b>President</b>	Derrick Webber G3LHJ	<b>Morse Code</b>	Lionel Leek - G0NOB
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