

HORSHAM AMATEUR RADIO CLUB

HARCNEWS

Coming Shortly

April 4th Club Evening Homebrew

May 2nd Club Evening The Best Thing Since Breadboards
by David Jones G4FQR

May 16th Social Evening The Fountain Ashurst

April 2002

Sponsored by:



Foundation Course

The first Foundation course has been a 100 percent success. Professor G3ZBU of Horsham University offers thanks to G4FQR, G4LRP, G4TMC, 2E0AVH and 2E1IGA for their help.

The roll of honour, in no particular order:-

Robin M3RRH
Ernie M3EWE
Tony M3TAG
Lee M3AGQ
Christine M3PTX
David M3EKO
Hugh M3HMW

Also five class B licensees have passed the Morse assessment and now have callsigns including M3DFV and M3OPL. As of 28th Feb. 1,407 M3 callsigns have been allocated of which 313 passed the Foundation Course.

The club has an Eddystone HF receiver which any member is most welcome to borrow.

Some M3's have already been

on the air and were totally amazed at the stations they have worked on the 10 watt power limit. The RSGB's QSL bureau will collect QSL cards for them even if they are not RSGB members provided that they send a batch of strong self-addressed envelopes to the M3 QSL manager, who is Steve Bainbridge, M1SWB, 6, Sandyville Grove, Liverpool, L4 8UL. I suggest you post 3 stout pre-addressed and stamped envelopes marked 1/3, 2/3 and 3/3 to him.

To send QSL cards to the RSGB for forwarding (note: a different address) one needs to be a member.

Conversely it is possible to ask the other station to QSL direct and either give your QTH (address) or send it to HARC by requesting the card to be sent to G3ZBU QTHR. QTHR means that the address supplied by the RSGB's Callbook is correct.

Another Foundation class will

start at the Mid-Sussex club on the weekend of 6th/7th April. Contact John G8JBJ on 01825 724179 for details. Of course, class B operators may take the Morse Assessment chez G3ZBU on demand. He will hold another Foundation course in May. Because many (if not all) of the Foundation group

enjoyed the course, a Novice course may start in the Summer. As City and Guilds are dropping amateur exams, the cost is likely to drop so next year may??? be cheaper.

Details from Alister on 01403 253432 or 0790 5258073 or G3ZBU@hotmail.com.

Junk Sale.

There was a large amount of surplus equipment for sale; in fact we had to finish before all had been dealt with. Some bargains to be had were a KW2000B HF transceiver for £45, signal generators for a few pounds, plenty of printers, and RAM modules.

The latter were in anti-static bags each going for 20p. Most contained 8 72-pin SIMMS suitable for older 486 and early Pentium motherboards and were 4 or 8Mbytes, however lucky Gerald picked up a bag with 32 or 64Mbyte simms which was ideal

for his machine. Many of the Foundation course members were present and they picked up useful items such as hf aerials and roller coaster ATU inductors.

A raffle was won by Chairman, Treasurer and Auctioneer, surprisingly!

Top prize was a 2million candle-power lantern.

The Club made a profit of £78, and the Committee express their thanks to all who sold and bought all that lovely stuff.

Making Your Desktop Look Pretty! (With PSP vs4.10)

By Helen Watt 2E0AVH

What You Need:

1. Paint Shop Pro N.B. version 4.1.0.0 is good because it is a shareware version. It is quite an old version and is only 7MB big (approx.).
2. Imagination
3. Time

4. A little hard disk space for your pictures
5. A brain helps, for understanding instructions.

How To Use Paint Shop Pro

Start by installing and then running the programme.

To create a new file;

1. Simply click on the picture of a blank page,
2. Click 'file' and then 'new',
3. Press [ctrl] + [n].

To save a file;

1. Click on the picture of a floppy disk
2. Click 'file' and then 'save',
3. Press [ctrl] + [s].

To save a file under a different name;

1. Click 'file' and then 'save as',
2. Press [F12].

To open an existing file;

1. Click on the open folder,
2. Click 'file' and the 'open',
3. Press [ctrl] + [o].

I like to either use a 600x500 or a 500x400 page. 400 is the

maximum height that will fit on my screen in 1:1 zoom For the

H.A.R.C. desktops I created, I used a 600x500 page.

For the background of your design you can do lots of different things. But for the desktops you can download I used some clipart components for an attractive effect. It is possible to draw a circuit diagram of something that you have built on your design, using the line tool. See [PSPvs4Toolbar.bmp (it is the 2nd from the right on the bottom line)].

After you have a main design in either a 1 or 2-pixel width you can then colour the backdrop simply in your favourite colours. If you are in 16 million colour mode, then the effects are much better than 64K or below.

Hint...

Select each main area of your image with the magic wand and save each one, then when you have sprayed them, you can still load and work on the separate sections only later.

TO PAINT

1. choose your foreground colour
2. Unless you are colouring with a solid colour choose your background

colour too.

3. Click on the paint tin
4. Select the fill style
5. Modify the options
6. Click in the place you want filled

Use the magic wand tool, the lasso, or even the simple select tool to select a section that you wish to paint if you want the effect e.g. linear to have a steeper gradient. [See HARC DT1_st1]

After you have used some 'flat' colour, you can add texture with the spray can. It is necessary to select the backdrop with the magic wand for this, otherwise the spray will cover the design.

1. Choose foreground colour
2. Click on the spray can
3. Select your paper texture
4. Select the opacity, this needs experimenting with...
5. Select a big size
6. Click and hold over the places that you want sprayed.

YOU MUST REMEMBER TO SAVE FREQUENTLY, YOU CAN ONLY UNDO ONE MISTAKE.

SELECTING

With the select tools, you can select circles, squares, rectangles and eclipses by click-and-

dragging. You can also select random shapes with the lasso and clicking in a space with the magic wand will select it up to the point where the image changes colour. You can load and save selections using the selections menu.

Experiment with different paper textures and opacity, undo and redo if you are not happy. If you make too many mistakes, then you can revert to the last save you made by clicking on 'file'; 'revert'.

You can do many things with your textured design. [See harcdt1_st2.bmp]

One special effect is Hot Wax Coating, it can give it colour and/or texture enhancement. To leave the colour similar to the original, choose a white or pale colour as your foreground colour.

Then click on Image, Special Effects, Hot Wax Coating. [See harcdt1_st3]. If you wish, you can experiment by giving it more coatings.

You can also change the colour, if you choose a darker shade it will darken the whole image with that colour. White paper will turn

to the exact shade itself, and darker bits will be tinted.

You can use either the magic wand or the selection tool to select bits of your image to give a hot wax coating. You needn't coat the whole thing.

You can change the colour of your image in another way, which doesn't give the texture of hot wax,

1. [Shift] + [u]

2. [Shift] + [h]

No.1 is the toggle for Red, Green & Blue modification. You can change the values of the red, green and blue in your image.

No.2 is the toggle for Hue, Saturation & Luminance.

[See harcdt1_st4]

Another way to change the colour, is Negative Image.

Click on Colours; Negative Image.

[See harcdt1_st5 (= negative of _st4)]

[See harcdt1_st7 (= negative of _st3)]

If you like, you can 'Buttonize' your image - or parts of it. Simply select the part you want 'Buttonized' and click on Image; Special Effects; Buttonize

You can use either a transparent or solid edge.

[See harcdt1_st9 (transparent edge)]

DEFORMATIONS

You can deform your image, use the deformation browser in the image menu. The circle deformation will push your image into a circle, and then you have a blank background to play with. If you create a new file about 50x60 then you can write in small letters a word, such as H.A.R.C. and then return to your original image and select the fill tool (paint can) and choose 'pattern' as your fill style. Select options and change 'current image' to the name of the small image you have created. It must be open at the time.

Then you can fill the gaps with your image.

[See harcdt1_st10,st11]

Another thing to do is to emboss your image. This makes it a subtle background in semi-monochrome colours. [See harcdt1_st12]

It is done by clicking on Image; special filters; emboss

TEXT

This gets a title to itself because there are so many things you can do with text. Choose the text icon (a letter A) and click on your image. This brings up a box called Add Text. Choose the font, size and other effects. Make sure it is floating. Press ok and move it to

the position you want it to be in. Then choose the select tool and click outside of the text. It is now fixed. This means your text cannot be moved or deleted.

If you want to spray your text, you can do so by NOT fixing it, and choosing the spray can and colour and paper effect etc. Then just spray haphazardly over your image - hey presto ! Only your text is sprayed.

Another great thing to do, is to go to selections; save and save it as Text1.sel (example) then delete the text on your screen. Next go to selections; load. Choose text1.sel and your text will now be selected. You can then change red, green, blue values, or hue, or spray, or blur, or emboss, or sharpen, or mosaic... There are so many things you can do - even with this old version of paint shop pro.

I will leave it to you to experiment further.

73's Helen Watt, 2E0AVH

p.s. PSP vs. 6 has much much more!

The files can be found and downloaded from the clubs website www.harc.org.uk click onto the desktop button.

Desktops



[harcdt1 st1](#)



[harcdt1 st2](#)



[harcdt1 st3](#)



[harcdt1 st4](#)



[harcdt1 st5](#)



[harcdt1 st6](#)



[harcdt1 st7](#)



[harcdt1 st9](#)



[harcdt1 st10](#)



[harcdt1 st11](#)



[harcdt1 st11b](#)



[harcdt1 st11c](#)



[harcdt1 st11d](#)



[harcdt1 st11e](#)



[harcdt1 st12](#)



[harcdt1 st12b](#)



[harcdt1 st13](#)



[harcdt1 st14](#)



[harcdt1 st15](#)



[harcdt1 st16](#)



[harcdt1 st17](#)

To down load these graphics you will need to right click over the text under the picture that you want and click onto SAVE LINK TO and save to your hard disc

These pictures are part of a article in April 2002 HARCNEWS written by Helen Watt 2E0AVH to find this newsletter follow [HARCNEWS April 2002](#)

Alister's Archives: March 2002

by Alister Watt G3ZBU

The subject is PC simulators, and I will start off by mentioning the world of light simulators. These have been around for many years and range from the famous Microsoft Flight simulator which allows one to fly around various airports in anything from a Sopwith Camel to a Concorde.

For real pilots they are only of use to learn the basics of flying and are very good on the navigational aspects and air-traffic control procedures but fail on the real life requirement to have good 360 degree awareness of other traffic.

For the keen PC pilot, there are now virtual airlines on the web that you can join and fly scheduled flights around the world.

The Club has some members who are interested in trains. Microsoft now have a train simulator and add-on package to allow one to design trains.

I believe there are about five journeys in the system, so you will not find Horsham to Clapham Junction.

The basic package has a few trains including steam and these seem to be quite realistic apart from the fact the government do not shut you down for not making enough profit!

Finally there are electronic circuit simulators, of which we will get a talk by David G4FQR. These allow one to build a virtual circuit and apply virtual instruments to test them. Because it is done in software, it is easy to perform modifications to component values and check what happens from millihertz to gigahertz without expensive test gear or a soldering iron.

At work we have used these simulators to check component values on infra-red data pulses and it is very useful to be able to use a virtual pulse generator to produce the sort of data that the receiver will see. This saves a lot of time.

David will show some other circuits that he has been working on and the results will be published soon.

HARC Foxhunt Results

Here are the results of the HARC Foxhunt held on Sunday 23 February.

Considering the time of Year, the turnout was excellent with at least a dozen participants in 8 teams taking part. The weather was fairly typical for February, cold and damp with light rain at

times! First transmission was at 10:30.

The Fox (G3WZT) was to be found in the National Trust car park on Outwood Common, just West of the Windmill. Congratulations to the winners Bryn G3SWC and Eva, and thanks to all that took part.

RESULTS

1	G3SWC and Eva	11:29
2	G7DFV	11:35
3	G4LRP	11:40
4	G7EYL and Jan	11:48
5	G4TPO, G4LKW & Maria	11:57
6	G3ZBU, 2E0AVH & Dave	12:13
7	M1AIN Ian	12:26

After the hunt refreshments were taken at the Dog and Duck. All in all, a very pleasant morning out. Once again, many thanks to

all those that turned out to support the event, I hope you enjoyed it.

73 John G3WZT

