



Volume 4, Issue 5

# Mid Sussex Matters

May 2016

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Editors  
Chit  
Chat

Birthday  
Cake  
any  
One?



### Mid Sussex ARS Net Times—all times local

Sunday	0800	3.740MHz <sup>+</sup> /.QRM
Sunday	1100	145.350MHz
Weekdays	1330	21.330MHz <sup>+</sup> /.QRM
Tuesday (SCARF)	2030	3.725MHz <sup>+</sup> /.QRM
Wednesday	2000	145.350MHz

GB3HY is now working on the new frequency:

Listen 430.900Mhz, Transmit 438.500Mhz, CTCSS 88.5hz

## Chairman's Barbeque

The annual Chairman's Barbeque will be held on 24<sup>th</sup> June 2016 at our QTH, 30 Bonny Wood Road, Hassocks, BN6 8HR. between 7pm and 10pm

For those of you who have never attended I thought you might like some more information.

As a start we soldier on whatever the weather throws at us

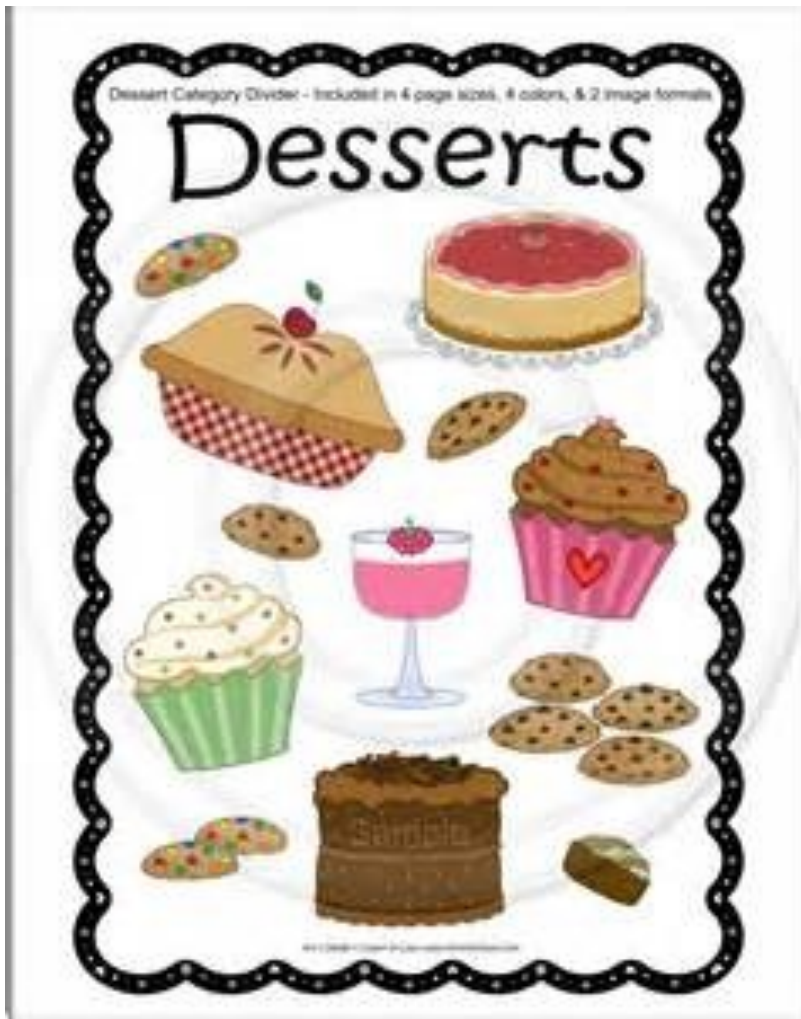


and Kim keeps cooking, if necessary under a large umbrella. We try to have all the food outside but have a large lounge which provides plenty of room for those of you who may prefer to stay indoors.

There will be burgers, sausages, ham, rolls, salad etc for a start

and a selection of puddings and cheese to round off with. Beer, wine, soft drinks, tea and coffee are also available.

Over the last few years we have raised money for various charities and to this end we run a raffle and make a modest "entry" charge of £10 per head. Once in you can eat and drink as much as you like at no further expense. Any prizes would be very welcome.



This is one evening when Geoff G6MJW has a chance to see you all. Despite his memory loss he still enjoys sitting in his armchair being waited on and chatting to those of you who he has known for many years. Last year all monies were donated to the Alzheimer's research centre.

You are all very welcome to attend

together with wives, husbands, loved ones or partners which every you prefer!

In order to arrange sufficient refreshments please will you let me know by 19<sup>th</sup> June should you wish to attend. Tel no 01273 845013 or email sue@figgerit.co.uk

88 Sue G6YPY



## Part Two: Constructing Circuits Using Stripboard/Veroboard

### **Introduction**

Sometimes it is useful to be able to design and build one's own circuit boards. Photo Etching is not really practical for the average 'home-building', but using stripboard/Veroboard certainly is possible. I have attempted to do this with the circuit under discussion.

### **Reproducing the surge protection circuit**

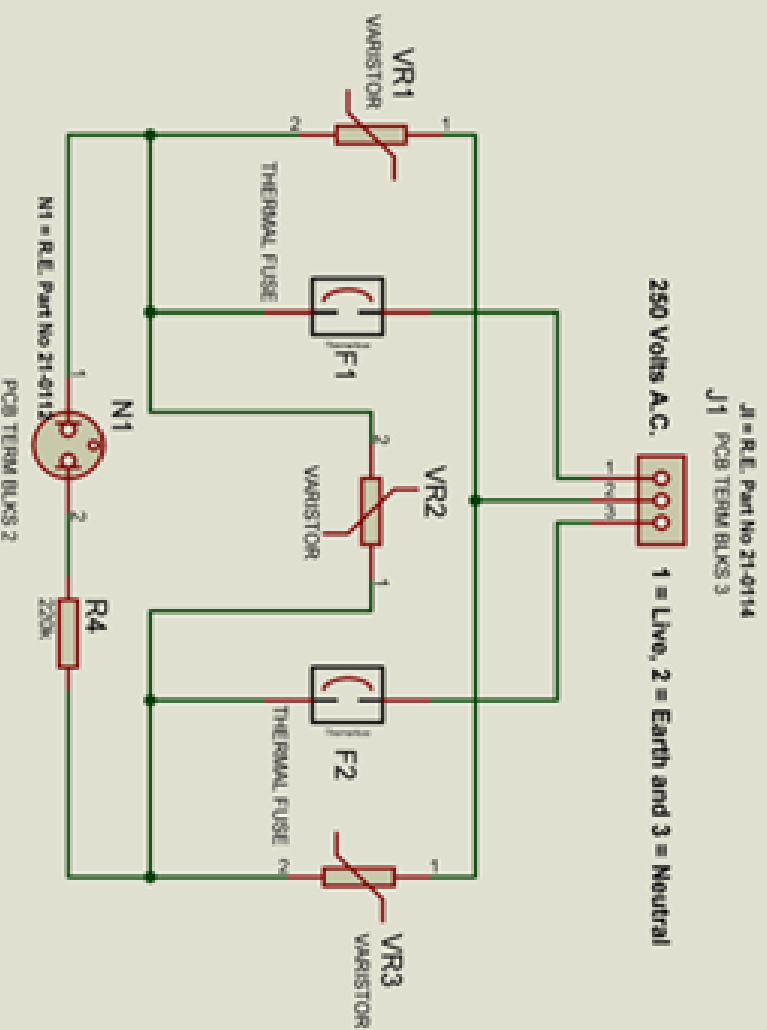
The circuit shown in **Fig. No 1 on next page** is the schematic for the circuit shown in **Photo. No 3. on page 6**. This circuit is shown laid-out on a piece of stripboard/Veroboard as shown in **Fig. No 2. on page 7**. The board was laid-out using software '**Lochmaster4.0**' from ABACOM. This is a useful piece of software that can be used for designing quite sophisticated schematic circuits. There is a library of 'ready-made' components. One can also 'construct' one's own component, and store them in the component library.

73

Alex Henderson

MOTOT

Fig. No 1 Typical Surge Protection Circuit

**Notes:**

VR1, VR2 and VR3 = Varistor (Zinc Oxide Metal Film Resistor); M.C.C. Part No 471KD14; Pitch = 7.5mm.

F1 and F2 = Thermal Fuse (TCO); non-resettable type, Manufacturer AUPCO; Part No AUPCO-5A-F, 10Z Degrees C; 5.0 Amp; Pitch = 5.0mm.

(F1 and F2 = Thermal Fuse; resettable type; Farnell/none Part No 1345914; Holding Current = 2.0 Amp; Tipping Current = 4.0 Amp; Pitch = 8.911.4mm.)

N1 = 250 Volt Neon Board Light; 1.2mAmp, or similar mains voltage neon light (May not need external resistor).



Photo. No 3 Surge Protection Circuit Board (See Fig. No 1)

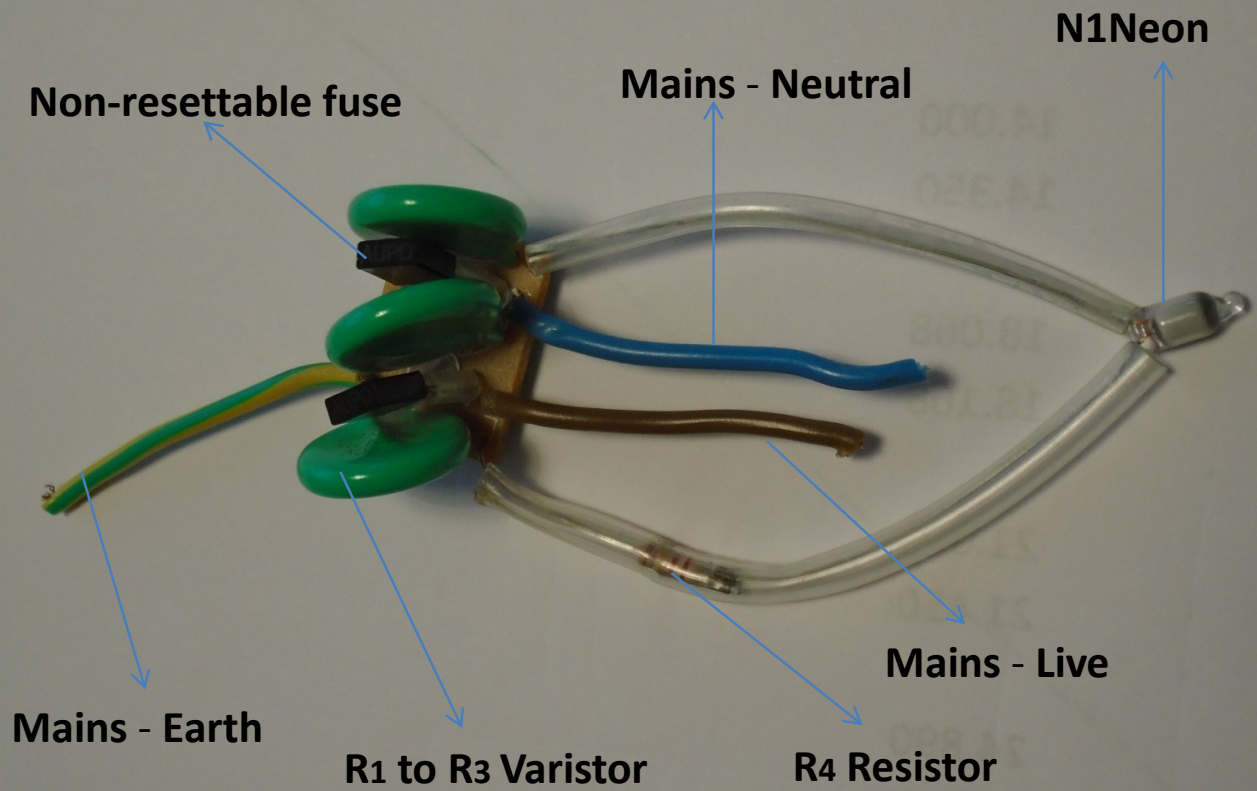
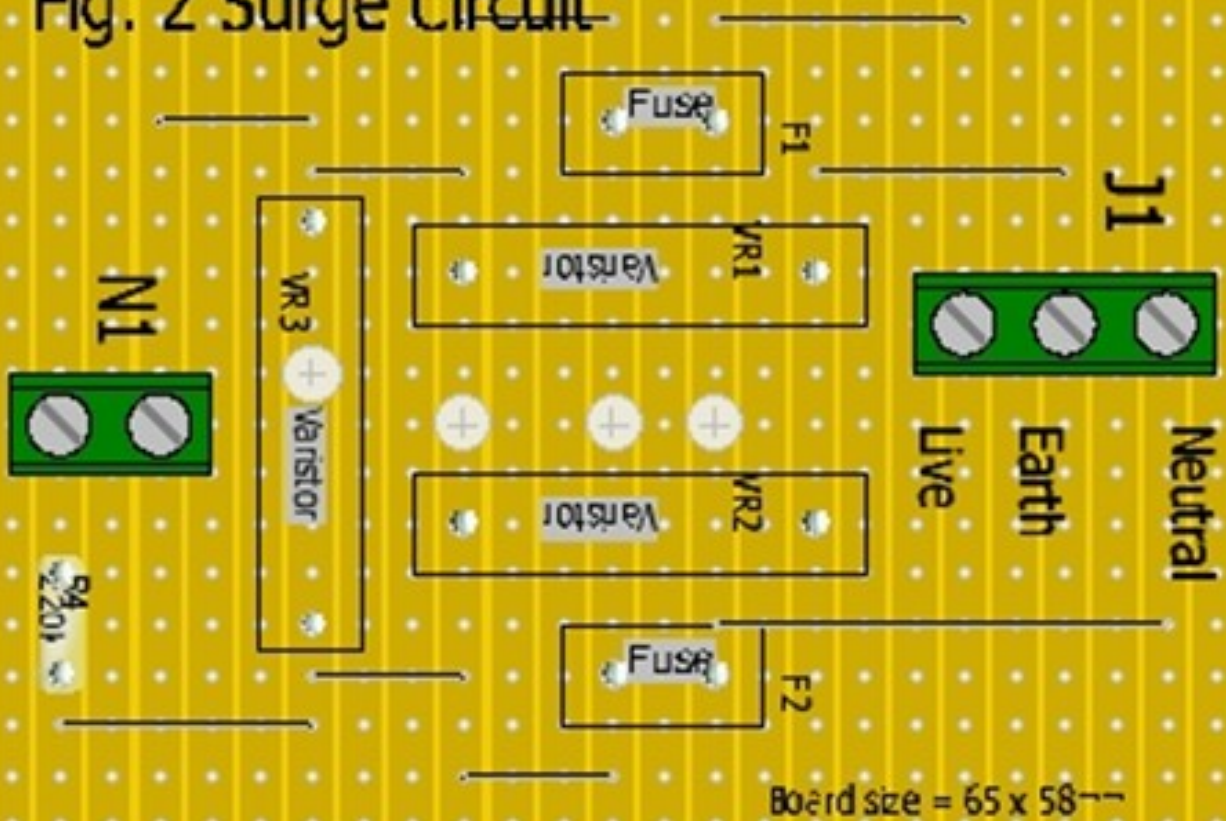


Fig. 2 Surge Circuit



## Diary Dates May - July 2016

27-May	Friday	Downstairs	Construction Contest
03-Jun	Friday	<b>OUT</b>	Fox Hunt
04-Jun	<b>Saturday</b>	<b>OUT</b>	Sussex Electronics and Radio Fair SERF Eastbourne Sports Park Cross Levels Way BN21 2UF
05-Jun	<b>Sunday</b>	<b>OUT</b>	Sussex Electronics and Radio Fair SERF
10-Jun	<b>Friday</b>	<b>Downstairs</b>	Open Evening for Burgess Hill Town Festival <b>Shack opening times to Public 7.00 pm to 9.00 pm</b> <b>Shack open from 6.30 pm to 10.00 pm</b>
12-Jun	<b>Sunday</b>	<b>OUT</b>	Burgess Hill Town Day, St. Johns Park
17-Jun	Friday	<b>OUT</b>	Windmills Evening at Jack and Jill Car Park <b>50th Anniversary</b>
24-Jun	Friday	<b>OUT</b>	<b>Chairman's Barbeque - QTH is G6YPY</b>
01-Jul	Friday	Downstairs	Prep for NFD
02-Jul	<b>Saturday</b>	<b>OUT</b>	<b>National Field Day</b>
03-Jul	<b>Sunday</b>	<b>OUT</b>	<b>National Field Day</b>

With a tent packed and our mobile trailer in use things are looking up, all we need now are some members to make these events worth putting on.



## From the President's Corner

Not a good month for DX with little heard from our overseas friends. This has not been helped by several of our members suffering poor health, surgery and other ailments preventing them getting near their radios. We wish all of them a speedy recovery and look forward to talking to them all again very soon.

On the other hand some of our newer members are making a real effort to get onto the nets, some with 10 watts and poor antennas but with the use of increasing quantities of blue wire progress is being made and their signals are increasing day by day. What they need now is a few reports from our stateside members to encourage them even more (but see paragraph 1). In the meantime some of them are learning an awful lot about antennas and antenna matching!

'Our Horse Box' we really do need a better name for it, was a great success up at the Jack & Jill Windmills on the Air event. Once again, many thanks go to those members who have worked so hard modifying it for our use.

I've not been on the air much these last few weeks but am grateful for those who have taken over running the nets in my absence. I'll join in as soon as I can again but in the meantime wish you all good luck in trying to work DX in such trying conditions.

73, Ken G3WYN

### Please Do Not Forget It Is Your Magazine

I am hoping to go to print each month for this I need copy from any one of you however small and it **may or may not be** radio related.

Request for copy around 6th—10th with copy to me by the 15th<sup>th</sup> of each month. If there is no copy there will be no MSM simple as that. Best Wishes

Stella, Editor of MSM



## **Protecting the Telephone System - Part Three**

In the last article, I related how part of our telephone system was 'knocked-out' by a surge on the line feeding the extension. How this actually happened is still a mystery. The previous owner had added telephone extensions in various parts of the house, and unravelling the wiring layout has been impossible in places. Under normal circumstances this would not matter, but as some of the extensions are also used with laptops or computers it became important to protect these points as well. Subsequent investigation showed that there appeared to be two separate lines within the house. Each of these would need protecting.

A start was made with the B.T. box at the point-of-entry; this had probably been installed twenty years ago before the advent of dial-up or broadband. I changed this box for a B.T. 'Open Reach' VDSL2 Mk III (See Photo. No 1 over on page 10 ) type which has much better filters. There is a separate socket for telephone and LAN connection to the router. I used a screened cable between the 'Open Reach' socket and the router, and fitted a single Belkin Surge Protection unit at the power socket for the router.

The other line, where the damage occurred, is protected by a 'APC Ptel' Surge Protection unit (Photo. No 2 over on page 10) with an external earth and ASDL.

73

Alex Henderson

MOTOT



Photo 1 Above

Photo 2 Right



## For Sale Item

Linear Amp Ranger 811h  
Linear

G.W.O. £700

Tel 01444 239371

Peter G4AKG



**Manual ATU**  
**either One For Sale**  
**or**

One that could  
**be borrowed.**



This is so that I can get onto the weekly HF net. If there would be a cost involved, please contact me using either my email address [andrew.thompson3@btinternet.com](mailto:andrew.thompson3@btinternet.com) or mobile number which is 07910 716677.

Many thanks in advance

Andrew Thompson M6TLY

## Mid Sussex Amateur Radio Society 2014— 2015

President	Ken Gibson	G3WYN	01444 412420
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Course Administrator	Adrian Allen	M0TCD	01798 815286
Lead Instructor	Chris Saunders	G4ZCS	
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Our normal "QTH" is Cyprus Hall Burgess Hill Sat Nav RH15 8DX

We meet most Fridays in the Millfield Suite 7.30pm till 10.00

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**Email (call sign)@msars.org.uk**

**(This will only work from a members email address registered with the society)**

Newsletter—Editor Stella Rogers M6ZRJ

All articles and photographs are the copyright of the authors. Contributions are invited from Society members and should be sent to [newsletter@msars.org.uk](mailto:newsletter@msars.org.uk)

Otherwise you can use Snail mail to my address at:

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West Sussex,  
BN6 8BJ.

If you have some great old pics that need to be aired I can share them with the rest of the club.

Best Wishes  
Stella