

Issue 6 - March 1985

From your Chairman

write these words in sub - zero temperatures, I long for a repeat of last Summer's heatwave - ideal for Field Days!

There have been several Committee acctings since the last newsletter. Remember, it is your club and the Connittee exists to run it the way you want it. The last thing I want is for the Club to be run on a secretive basis. Recent items discussed have been the refurbishing of the Twyford House aerial systems, the purchase of an ATU (Garry G3HKA has very kindly offered to look into the possibility of making one) and the installation of the transverter (70 cs - Ed) into its own cabinet with psu.

Best wishes to you all for 1985. As I Our winter programme of events has taken place successfully and the Committee is organising a continuation into the Spring, using our now traditional system of talks etc. on alternate Fridays. Midweek evening visits are also being contemplated. Mention must of course be made of yet another highly enjoyable Beer & Skittles Evening - our thanks to Bob G48MB for his superb arrangements.

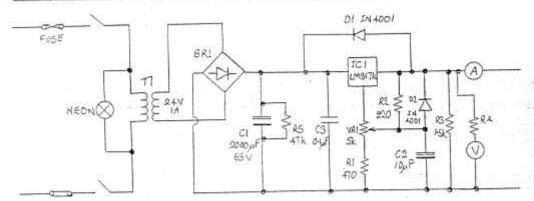
> Keep your fingers crossed for warmer weather. Personally, I haven't seen any snow for three years (having been away in warmer climes for a while) and I'm not impressed!

> > Dave, 640PJ

SHIREHAMPTON AMATEUR RADIO CLUB Twyford House, Lower High Street, Shirehampton, Bristol.

SHIP SHOULD THE HEAT FUR HOT TO

A low-power, variable-voltage psu



The circuit shown will give an output variable between 4 and 30 volts at up to one amp. It is therefore very useful for the experimenter who is tired of looking for a spare PP3 battery etc to power up the latest creation on veroboard. The regulator chip is said to be short-circuit proof and is protected against thermal runaway, so the circuit under test should go up in snoke before the power supply.

Construction is not critical. The whole psu should be in a metal box which is connected to the earth of the mains input. The negative outlet of the psu is not connected to the chassis, but could be if required. The LM317K is in a TO3 style package and the case can be used as a heatsink, with a suitable insulating washer. It is rated at 1.5A so should rarely become warm. Its maximum input is 40V dc, the above circuit produces 36V at C1.

Notes on components:

Ti can be a 12-0-12V transformer wired to give 24V.

BRI can be a suitably rated bridge or four separate diodes.

Ci must be a good quality electrolytic; the writer used two at 1000uF each.

A useful quide for reservoir capacitors is said to be 2000uF per amp.

C3 is to prevent instability within the IC and should be mounted directly on it.

D1/D2 protect the IC in case of short-circuit conditions at its input or output.

R3 should be 2W rating or more and is there to provide a load for the IC if the psu is switched on with no external load.

R4 is a suitable value for the meter. The voltmeter and ammeter are optional extras; without them the psu could be built for less than f12 (if it is not, no claims for compensation will be entertained).

If T1 is rated at 12V ac and R1 is omitted, then the output will be in the region of 3-7 volts.

Dave, G4DPJ

SHIREHAMPTON AMATEUR RADIO CLUB Twyford House, Lower High Street, Shirehampton, Bristol.

SHIREHAMPTON AMATEUR RADIO CLUB - Membership 1985

CARRE			100
GIDBF	John	BS20	074
GIHMO	Jean	8813	065
SIHOV	Ted	BS11	073
GIIFJ	Ron	888	075
63HKA	Barry (Committee)	BS13	062
GZYHV	Colin	BS9	015
G4AYB	Addy	BS11	067
G48WB	Bob	BS9	031
S48WE	Steve	BS15	001
64DPJ	Dave (Chairman)	BS9	004
GADVV	John	BS12	002
G4EQP	Andrew	BS10	018
84FRO	Garry	859	036
64GAR	John (Treasurer)	BS9	013
GAGTD	Ron (Secretary)	BS4	016
GAKKU	Andy	BS11	027
G4KXD	Maurice	BS12	0.44
G4L5X	Gary	9519	005
G4NAD	Clive	8911	011
64NFS	Norman	9520	077
640QW	Pete	BS17	003
BARKY	Matthew	BS13	043
64TDD	Don (Committee)	BS9	054
G4VWM	Chris	BS9	076
64WBV	Roger (Committee)	BS9	021
64WGW	George	BS9	066
B4YTH	Terry	BS4	040
G&ESD.	Harry	BS20	024
GSYJM	Nick	BS4	009
BBZDE	Steve (Committee)	BS9	014

That's all at February. Congratulations to Jean on her passing the morse test and hope the 60 arrives soon.

SHIREHAMPTON AMATEUR RADIO CLUB Twyford House, Lower High Street, Shirehampton, Bristol.

Club Ideas

It has been suggested that Club members use the newsletter to advertise to a wider audience any test equipment that they are willing to lend out. Obviously those with brand new spectrum analysers in their shacks might be a bit reluctant, but amongst the members there is probably a wealth of bits and pieces that others might find useful.

For starters Garry, G3HKA has a crosshatch generator and Dave, G4DPJ has a dc "dummy load" for checking currents trips up to 25A on 13V power supplies.

Club "Request"

The Club has purchased RadCom binders for the magazines: anyone who has borrowed any RadComs is asked to return them as soon as possible. We can then keep a complete year's issues neatly together for future reference.

Dave, 64DPJ

Club Apology

Some of you may have wondered where the Club magazine has been these last few weeks, well alright, months. I have to confess that the manuscript articles lovingly prepared by their authors have been languishing on my desk. Finally, I have found some time to type them up and many apologies to all if some thing are not quite topical. It will not happen again ... (I hope). So new authors, that is YOU, do not despair — articles still welcome for the next issue.

Watch this space.

Garry, 64FRO

Club Happenings

10 May RF connectors & cable Talk by Steve, 68ZDE

24 May Rig check evening Steve, 68ZOE

1-2 June HF NFD

15 June Exhibition Station at Blaise Castle

30 June Longleat Mobile Rally

6-7 July VHF NFD



SHIREHAMPTON AMATEUR RADIO CLUB Twyford House, Lower High Street, Shirehampton, Bristol.