

SHACKNEWS

HIGHVELD AMATEUR RADIO CLUB

PO Box 1111, Bedfordview, 2008

June 2003

e-mail zs6bfl@telkomsa.net

COMMITTEE



Office		Call sign	Telephone number
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Sunday morning BULLETINS - 145.7875 MHz & 7062 KHz @ $\pm 08h45$.

COMMUNICATION IS THE NAME OF THE GAME

MEETING Which was held on 7th June at the usual venue. The turn out was not too bad. The first part was a discussion about the proposed budgets to be tabled at the SGM. Proxies were signed (10) for ZS6BFL to vote as he saw fit. The rest of the meeting we looked at how the newer type of electric blanket works. A sample of the element, consisting of two elements wound one on top of the other (coaxial) in a single core, and the controller was brought along. The usual refreshments were partaken afterwards.

SSC The meeting was held on Saturday 14th June. Shaun, ZS6SMR, brought along photos of his resent visit to Mozambique. Most interesting to see what has happened to some of the houses there since the war. OM Johnny, ZS6EH, the gave all an interesting (impromptu) talk on the history of the SARL after the 2nd world war and how the league was moved to Cape Town.

SPECIAL BUDGET MEETING This meeting took place on 21st June at the NARC. Official start was at 09:30. OM Graham Hartlett, ZS6GJH, Gave a power point proposal on restructuring of the SARL. This was favourably met by a majority of those present. The three budget proposals from ZS6, ZS2 & ZS1 were discussed and eventually voted upon. The proposal from ZS6 won by 50% of the vote. As heard on the HQ bulletin of Sunday 22nd June there is a new council and I'm sure that we wish them all the best for this coming year. Also congratulations go to Ton ZS6ANA and Yvonne ZR6TBL on their election to council. Best of luck

OUT TO DINNER MATHEMATICS

This is pretty neat how it works out.

DON'T CHEAT BY SCROLLING DOWN FIRST

It takes less than a minute.....

Work this out as you read.

Don't cheat and read the bottom until you've worked through it!

This is fun!

1. First of all, pick the number of times a week that you would like to have dinner out. (try for more than once but less than 10)
2. Multiply this number by 2 (Just to be bold)
3. Add 5. (for Sunday)
4. Multiply it by 50 - I'll wait while you get the calculator.....
5. If you have already had your birthday this year add 1753.... If you haven't, add 1752.....
- 6.. Now subtract the four digit year that you were born.

You should have a three-digit number.

The first digit of this was your original number

(I.e., how many times you want to eat out each week.)

The next two numbers are...

Answer page 4. ↓

Warning labels be placed immediately on all varieties of alcohol containers:

WARNING: The consumption of alcohol may make you think you are whispering when you are not.

WARNING: The consumption of alcohol is a major factor in dancing like a giraffe in heat.

WARNING: The consumption of alcohol may cause you to tell your friends over and over again that you love them.

WARNING: The consumption of alcohol may cause you to think you can sing.

WARNING: The consumption of alcohol may lead you to believe that ex-lovers are really dying for you to telephone them at four in the morning.

WARNING: The consumption of alcohol may make you think you can converse with someone you are attracted to without spitting.

WARNING: The consumption of alcohol is the leading cause of inexplicable rug burns on the forehead, knees, and lower back.

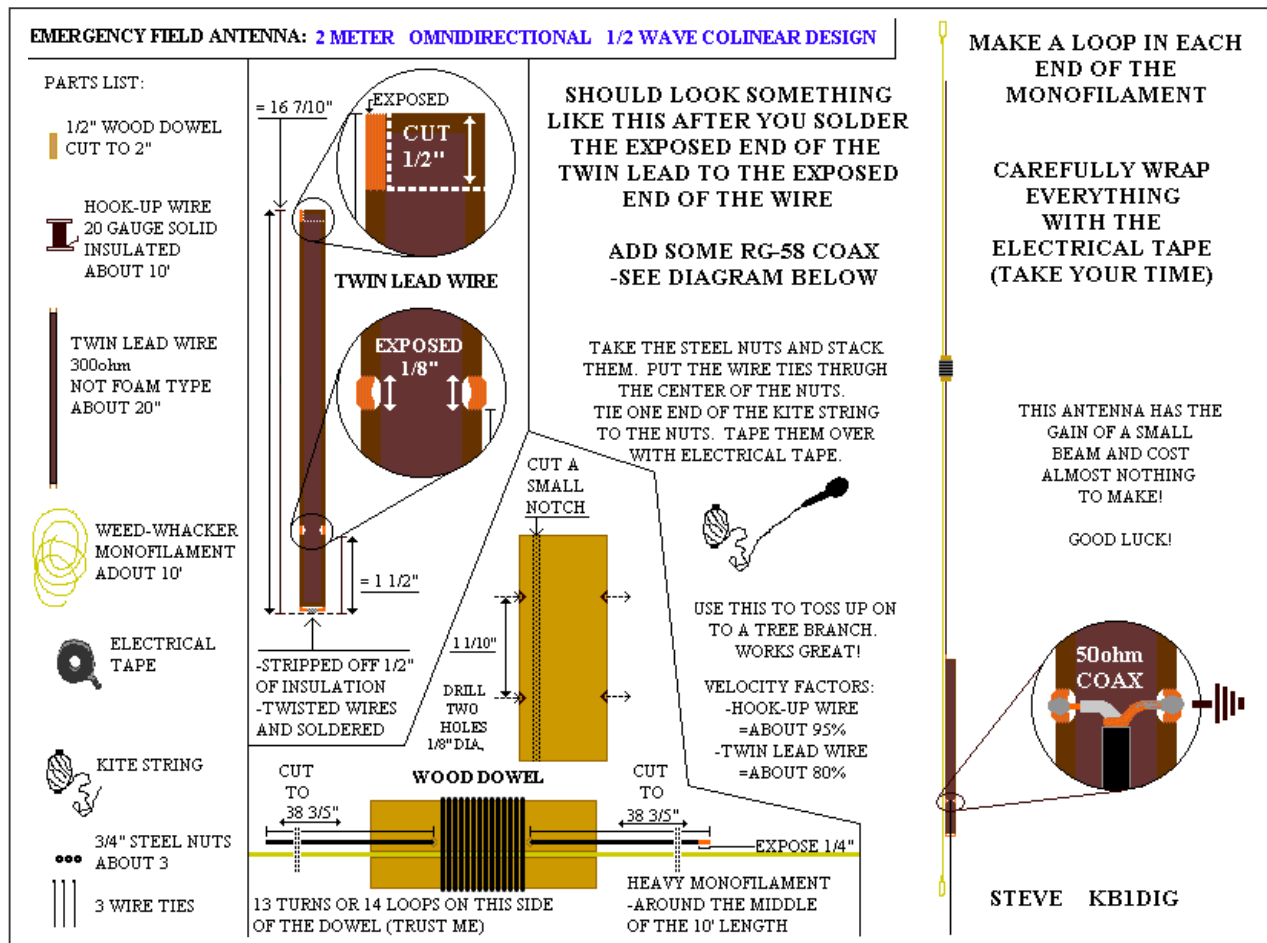
WARNING: The consumption of alcohol may create the illusion that you are tougher, smarter, faster and better looking than most people.

WARNING: The consumption of alcohol may lead you to think people are laughing WITH you.

WARNING: The consumption of alcohol may cause pregnancy.

WARNING: The crumsumpten of alkahol may maak you tink you can tipe real gud.

Lifted from the WEB



Sorry all the measurements are American

PC BOARDS REVISITED.

From HOTLINE NEWSLETTER JUNE 2003

(by ZS6AJY)

Ever seen an article in your favorite magazine about a small project you would like to build? All the info is there, parts are available and they even give the circuit board layout diagram.

Here is an easy way to make the circuit board from that diagram. It is intended for 'one off' boards. You need access to a Photostat machine and a few sheets of transparencies, as used for overhead projectors. First, print a copy of the board diagram on a transparency. Study it carefully from both sides and you will see that the powder deposit is clearly discernible. Match it up with the copper clad PC board so that the powder side is against the copper. It will almost certainly be the reverse of what you actually want etched. Now make another copy on a

transparency using the first transparency as the original, but upside down. The second copy will have the powder deposit correctly placed. Cut the circuit board to the correct size and clean it thoroughly. Place it on a (solid stove plate and heat it until the copper just begins to colour. Remove it, using a cloth, as it is quite hot, place the transparency over it, powder side down. Rub gently across the surface for a minute or so, then peel it off. The powder deposit remains on the copper in sufficient quantities to enable a good circuit board to be etched. Any areas which you feel have not been completely covered should be touched up with a 'resist' pen. It is easy to do this as the tracks are clearly printed.

Instead of using the usual ferric chloride solution as an etchant, a quicker and cleaner method is to use equal quantities of 10% solution of hydrochloric acid and hydrogen peroxide. These should be stored separately and mixed in equal quantities when needed. After use it should be discarded and flushed away using copious quantities of water. It will etch a board in three to five minutes.

I have had excellent results, but I suggest you experiment first to determine the best heat to bring the board to. The powder deposit seems to vary with different types of copy machines and also the darkness of the print should be adjusted.

It has proved to be a viable alternative for quick and easy circuit board making.

From page 2 ↑

YOUR AGE! (Oh YES, it IS!!!!)

THIS IS THE ONLY YEAR (2003) IT WILL EVER WORK, SO SPREAD IT AROUND WHILE IT LASTS.

IMPRESSIVE, ISN'T IT?

SWAPS

This column is still FREE for you to advertise anything that you would like to. Just give the editor a call.

011-893-1291 or e-mail zs6bfl@telkomsa.net

73 Berridge ZS6BFL