



Come to the Club Meeting Thursday February 15th

Come out to the meeting this month at Arise Brandon Assembly of God 710 South Kings Avenue in the Annex. Things get underway at 7:30 p.m. when Scott bangs the gavel to start things off. One of the discussion topics this month will be continuing to meet at this address or moving to the new church location.

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Thursday Night's Program: Low Pass Filter Construction

Hints and Kinks

Jim WF4AC will be presenting a program on Low Pass Filter Construction. Here are his insights on the program.

One of the most used circuits in ham radio is the RF filter. There are many filter types, families, sizes and construction materials. I recently found an interesting article on low pass filter design and decided to investigate its characteristics, then find a RF design worth building and finally test to see if it really works. My journey in this endeavor is the subject of our BARS program for February 15th.

I want to share with you how a filter is categorized, designed and how to use modeling software to test out that design. Finding a great example to build was easy. Look up Bill Jones/K8CU and find his technical article on building a 1.8-54MHz RF (1500W) low pass filter

https://nam03.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.realhamradio.com%2FDC_54_mhz_lowpass_filter.htm&data=02%7C01%7C%7C48e1b2ce8ec140d59d5808d56db116fc%7C84df9e7fe9f640



afb435aaaaaaaaaaaa%7C1%7C0%7C636535529730890854&sdata=PP02CmDNzlz0Fy3gfh5jcqk8pGhiR8ZXS BgIN4Mc1LM%3D&reserved=0).

In that article he references free filter modeling software called ELSIE. Since I already had this, I began modeling his design and comparing it with a Butterworth filter. Ever hear of a Butterworth filter? Let me show you the similarity and difference between it and the project design.

Finally, I don my safety glasses and start drilling, soldering, coiling tubing and gluing parts together. Ever hear of a “rivet nut”? Well, let me show you this really ingenious tool and how it is used to build a variable capacitor. Once the build is complete, I will show you how I confirmed the design characteristics and tested it in actual use. All-in-all, it was a fun build while learning a great deal about designing, building and testing a RF low pass filter. Oh wait, there’s more...I also will show you how to avoid my mistakes. See you at the meeting.

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BARS License Testing Sessions

Bill WJ4G passed along these update stats for the BARS Testing session this month. Our Feb 3 test session resulted in 3 new techs, 3 new generals, and 1 new extra. Here are our totals for the year to date: 7 techs, 4 generals, and 1 extra. Thank you all for your part in making these results possible.

Bill WJ4G

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That’s it for this month. Have fun with radio!

Keep in Mind Our Weekly Nets and Bulletins

Monday 8 p.m. The Two Meter Net 147.765 - 147.165 MHz Hosted by Doris Haskell WB9VDT

Tuesday 7 p.m. 6-meter Roundtable 50.200 MHz USB followed at 8 p.m. with the 10 Meter Roundtable 28.365 MHz USB

Send us your articles AND PICTURES! We do much more in the digital format! I would like to have pictures of BARS members and their ham shacks!

Remember to check out the BARS website:

brandonhamradio.org