

# RADIOWAVES



## MARCI Newsletter

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## FROM THE PRESIDENT OF MARCI

As was mentioned here last month it's hurricane season. (Big surprise, eh?) The weather has been wet and stormy and may continue as such at least through September and into late October. The Caribbean and south Atlantic can get dangerous for us this time of year. But let's hope our luck holds out and that it will be JUST wet and stormy! Geoff Haines, N1GY, always has good ideas on the subject this time of year so check out his website at N1GY.com for this and LOTS of other goodies.

While you're at the computer you might want to have a look at the MARCI Facebook page. Little used but there for you to use, post, and/or comment there. Check it out at <https://www.facebook.com/groups/966175460080399>

The September General Membership Meeting will soon be upon us (Sept. 6<sup>th</sup> at 7:00pm at the Bible Baptist Church. Check the MARCI Website Home page for the exact address if you need it.) Our guest presenter is a Detective from the Manatee County Sheriff's Dept. who will discuss overall crime prevention and topics such as what to do during an active shooter situation. This looks to be a presentation that should interest everyone so make a point to make this meeting.

The MARCI Board of Directors continues to discuss plans for our 2022 Christmas Party. We are surely trying to provide the best bang for the buck with respect to the dinner, the prizes to raffle, etc. As we have not had a live Christmas Party in a couple of years due to the pandemic, we're trying hard to make this one special. A survey will go out LATE this week on this so watch for that. Answer the questions and RETURN THE SURVEY quickly so we will know how many of you would plan to attend. The Christmas Party/Meeting will take place the first Tuesday (as do all General Membership Meetings) in December on 12/06. So SAVE THE DATE.

A work party is being planned for some maintenance at the repeater site. I would like to have one or two able volunteers who can manage some light lifting, carrying of tools, and able to work on their feet for a few hours. Call me at your convenience, (941) 376 – 6453 or email [mryan001@tampabay.rr.com](mailto:mryan001@tampabay.rr.com).

MARCIFEST 2022 is of course October 15<sup>th</sup>. VE Exams will be offered by Jim Woodson, KE4INM and his volunteer VE crew. This would be a great time to upgrade or for those new to the hobby to take the FCC Exam for the first time. MARCIFEST will be a great time to get to know or visit with other MARCI members, do a little shopping in the tailgate/flea market area, and enjoy some great eats courtesy of 'TY's GOLDEN HOG' food truck.

At our G/M Meeting we will have as usual the 'Swap and Drop' tables. These will be in the rear of the room for those with something TOO GOOD to throw away but that another member might like to have. You may find something to pick up for yourself but bring stuff to contribute if you can. However, "if it is truly junk leave it in your trunk."

Should you hear Ron Silver, WA4LOX on the repeater (should he come out to look for his shadow) wish him a happy (or belated) birthday today 08/27. He is celebrating the 22<sup>nd</sup> anniversary of his 39<sup>th</sup> birthday. Happy Birthday Ron!

That's all I have for now, but as an old celeb used to say, 'Happy trails to you, until we meet again'. And hey, tell someone you love that you love them. See you soon. –Mike Ryan, K4CVL

## From the Editor

This issue is undoubtedly the largest to date during my short tenure as your editor. It is packed FULL of very useful information and of course, some pictures of our fellow MARCI members and guest from the July social event at Bob and Ann Borsari's home. Thanks again for being such gracious hosts, Bob and Ann!

### New and Returning Member's Corner

Please welcome the following individuals who were recently approved as new or returning members by the MARCI Board of Directors:

- Paul Herriman – N5AAV
- Jack Mrozak – K2CTH
- Wes Walker – KN4NPR
- Phil Wilson – N8IPS

If you joined in the last few months, and you are not listed above, please let me know and I will be sure to add your name in the next issue of Radiowaves.

### Plan Now for MARCIFEST in October

The Manatee Amateur Radio Club's 2022 hamfest (MARCIFEST) will take place at the Bible Baptist Church, 2113 Morgan Johnson Rd, Bradenton, FL 34208. The date is October 15th, 2022, from 8:00 am to 1:00 pm. Talk-in is on the MARCI repeater on 146.820 (-) with a PL tone of 100 Hz.

### Radiowaves Content Needed

We are continually looking for content for our monthly newsletter. If you have pictures of your 'shack' or have ideas for additional items on a monthly and/or quarterly basis, please send them to [N4BB.brian@gmail.com](mailto:N4BB.brian@gmail.com).

### Become A Role Model for MARCI Sartorial Excellence

Please be sure to check out the MARCI polo shirts on the next page. Show your team spirit by purchasing one of these fine shirts, embroidered with your name, call sign, and the MARCI logo.

Look closely at the blue shirt. I know, WA2RFM is no longer my call sign—it was issued to me WAY BACK in 1977 when I qualified for my Novice license (with a code component at 5 wpm). I really would like to relearn Morse Code and use it on the air. Doing so would give my little gray cells a challenge as well as a pleasant diversion! I'm open to suggestions as to the best way to relearn the code. If you use CW, please send me your suggestions.

Until next month, continue to enjoy our fascinating hobby, and stay safe!

Brian Biery, N4BB, Radiowaves Editor

## Be The Proud Owner of a MARCI Polo Shirt and Patch

The shirts are \$30.00 up to XLG; add \$2.00 for the 2X size. This includes your name, call sign and the logo *embroidered* directly on the shirt above the pocket. Shirts are available in RED, WHITE, and (dark) BLUE.



If you are interested in just the patch to sew onto an item or to add to your collection, they are \$18.00.

Contact Info:  
Marsha Littlefield - (941-224-0400)  
Email - [Mypmarsha@Yahoo.Com](mailto:Mypmarsha@Yahoo.Com)



## Ham Shack of the Month – Ken and Noah Olson



This is the ham shack of the father and son team of Ken Olson, K4KEO, and his son Noah, W4NKO. Ken recently upgraded to General, and Noah earned his Technician license! They both applied for and obtained call signs with their initials! See last month's issue of Radiowaves for a picture of this dynamic duo at the top of page 7.

Congratulations Ken and Noah, and thanks for becoming members of our MARCI team!

Everyone - please consider sending us a picture of your shack for inclusion in a future Radiowaves!

# Preparing for Deployment in an Emergency – Geoff Haines – N1GY

I would like to add a few words about emergency preparedness. Although Hurricane Charley was several years ago, and most years since were perhaps notable for the seldom appearance of major hurricanes, that does not in any way suggest that **this year will be benign**.

What I want to talk about is not a grand plan to make communications readily available to everyone, but just a few thoughts engendered by what worked and what didn't, and why. I am of course talking about my own personal response to Charley, not the overall response, which was massive, awe inspiring and wonderful. No, what I am talking about is things that I noticed during the recovery effort about my own situation. Things I forgot, things I wasted time doing only to find that that particular device or system was not necessary. Things that I had at home that would have been useful if I hadn't left them at home. That kind of stuff.

I owned a laptop computer with an excellent mapping program with GPS tracking of my vehicle's position. This would have been very nice to have in the disaster area, since all, and I do mean ALL, of the street signs were gone. Landmarks that people use for giving directions were also gone or damaged beyond recognition. I left the laptop at home. DUMMY! I now have a GPS unit permanently mounted in my car.

I brought my "Radio Station in a Box" to the disaster area. The Box contained an Icom IC-706MkIIG, a power supply, an auto antenna tuner, and a G5RV Jr. antenna plus lots of coax cable. It sat in the car all day, each day, unused. Radios in vehicles were plentiful. Operators were also in good supply, although we could have used more. What would have been useful was a mobile radio (preferably dual band), a mag mount antenna, and a field expedient way to hook up to power. Some emergency equipment runs on a 24VDC system rather than the 12VDC we are used to. A portable jump start battery can power the mobile rig for quite a while in that situation. Some of the hams that responded were sent out with Search and Rescue teams with nothing more than a handheld (HT). While repeaters were back up quickly in most cases, the 25 or 50 watts of a mobile rig is better than 4 to 6 watts from an HT.

Recently, I had a couple of medical problems—heart attacks—that made it necessary for me to purchase a mobility scooter and a lift to put it in and out of the van. Actually, I had to buy the van too. The cost was steep but the alternative (running out of energy after a few yards of walking) was not something I wanted to contemplate. I have, of course, equipped the scooter with ham radio, specifically a Yaesu FT-50. This unit puts out a maximum of 50 watts, about 10X what one gets from an HT. I keep it set at 25 watts to save battery life and prevent overheating the radio itself. I power it with a 12 Ah Sealed Lead Acid (SLA) battery. The charger for the battery sits right in the car, where the scooter is stored. The antenna is mounted on the armrest of the scooter. I have used it quite successfully to attend several hamfests and at least one public service event, a 5K race, since I got it.

The noise level in the staging area is incredible. Every agency that came had a generator. A BIG generator. With all of them running at the same time, in the same place, the ambient noise level is deafening. Bring a set of headphones, with adapters to accommodate the 1/8 "jack on the back of most radios, and the 1/4" jack found on many HF rigs. If you were not wearing headphones and you went more than 5 feet away from the speaker; you could easily miss a call to your station. Another good option would be a headset with large noise-blocking headphones. These need not be expensive. On my web site, [www.n1gy.com](http://www.n1gy.com), there are several circuits that will convert any inexpensive PC headset to use with

a ham radio. You might have to adjust the mic gain slightly, depending on the specific headset. One point I want to make, and this is significant, is that I have heard some hams say things like PC headsets are no good, you need a Heil headset for it to work. To which I say BALONEY. All headsets, be they made for Cellular service before the age of Bluetooth, PC headsets, or the headsets available from Heil or MFJ or anyone else, must meet the standards for communication grade audio. That means they must have sufficient audio power to work with a telephone since that is where the standard came from. The extra audio quality some manufacturers tout as the reason for spending \$2 to \$300 dollars on their brand of headset is lost as soon as it gets into the audio chain of the radio. There may be minor tweaks in the audio for all that extra cash, but the received audio on the other end of the QSO will be just as readable with the \$15 headset as the \$300 unit.

Something we could have used more of was very simple message forms, log sheets specific to the disaster. Call sign and/or tactical call of the station calling and/or being called; the requested information or message; the time/date; a block to check once the message was passed or the request passed to the appropriate agency. Since my experience several years ago, FEMA has designed the ICS Form 213. This basically is an expanded version of the ARRL message form with space for 50 words and slots to insert the to and from and reply data.

Some of the served agencies made requests for the loan of equipment. I loaned out my ball mount and towing ball from the back of my Jeep. Make sure you get the name of the requester, the time or date the equipment is to be returned etc. etc. I did not and the gear vanished into the disaster, never to return. Without the generosity of the manufacturer of the equipment in question, I would be out almost \$100.00 in towing equipment. "I'll be right back" will not cut it. If you do not know the individual you are loaning your stuff to, my best advice is "**don't.**"

Bring your own food and water for the first couple of days at least. It takes time to set up feeding stations for the responders, and the first responsibility is to feed the victims anyway. I did bring my own water and food items and had no problems. I am sure some other operators went hungry much of the first day.

Make sure you know how to reprogram your radio in the field. I have always used a computer program to load my HT. We changed repeaters three times that first day; I only had two of those repeaters in the HT's memory. Note: had I brought the laptop this would not have been a problem if I had remembered to bring the cable to connect the two. Luckily for me, there was skilled operator in attendance who programmed the third repeater for me in seconds manually.

Bring a hat suitable for the sun. Also bring sunscreen and bug stuff. Remember to also bring rain gear. Whatever you forgot, that will be the stuff you need. Murphy's Law is always in effect. I had rain gear and did not need it. I did not have bug spray and had to borrow it from someone better prepared.

As soon as I can afford it, I am going to get one of those large-scale atlases of Florida to go along with the GPS that I have now. The standard highway map will get you to the staging area but unless you have a large-scale map of the town or county you will get lost as soon as you leave the staging area if you don't have a GPS. At one point during the first day, I was assigned to replace an operator at a local radio station. The radio station was back on the air with a damaged tower and no roof on the building at all. Because of the lack of street signs and only a rough idea of the address, my partner and I set out on what should have been a 20-minute drive to the station out on a spit of land between two canals. **Two Hours** later, we finally arrived at the location, having driven down every road to the shoreline we came

across. We had no trouble seeing the tower, it was the multiple canals between us and the station that kept making us turn around and try again.

Get a rotating beacon light or strobe light to mount on top of your vehicle. The magnetic mount type with the teardrop cover in amber is fine. The normal mode of operation appeared to be that all responder vehicles have an amber or yellow beacon on top so the law enforcement types who were manning almost every intersection on Route 41 would know who to allow into certain areas. These officers were from all over Florida, not just local, so the magnetic signs on the ham radio vehicles meant little. I got yelled at once by an officer because I did not have my amber light bar running. Of course, I was headed home by that time, but he did not know that. These beacon lights are not expensive, and you can also use them if you have to stop to fix a flat tire or whatnot.

Well, that's about all I can think of for now. Your experience may have been different, you may have thought of other things I forgot. Now is the time to make those changes, buy those things that you found out the hard way would have come in handy. If we wait until the next storm, it may be too late.



# Continuous Tone-Coded Squelch System (CTCSS) - Demystified

by Gary Morrison VE7POP - 02 Feb 2018

## Key Ideas:

**CTCSS is a non-audible tone, embedded in a transmitted radio signal which allows a receiver to suppress all signals except those that have the embedded tone.**

- The frequency of the embedded tone is selected by the radio operator from a list of standard options (e.g. 123.0 Hz) and can be embedded in any VHF/UHF signal.
- The tone is “encoded” by the transmitter and “decoded” by the receiver.
- The encoded tone of the received signal is used to control squelch, thereby restricting whether or not the received signal can be heard.

**CTCSS restricts the received signal, NOT the transmitted signal**

- If a receiver is set to decode a tone at a given frequency, a signal received at that frequency *cannot* be heard unless it has been encoded with the same tone, BUT...
- A signal transmitted with an encoded tone can be heard by any receiver within range, *whether or not* the receiver is set to decode the tone, SO...
- *Encoding a tone in a transmission does not prevent interference with others on the same frequency and does not prevent others from hearing the transmission. It is not a “Private Line” despite some brand descriptions of CTCSS.*

**CTCSS has a number of different applications**

- Control access to repeaters.
- Reduce interference from other stations on the same or nearby frequency.
- Suppress digital signals such as C4FM transmissions which cannot be copied by an FM-only radio.

**CTCSS has different proprietary terminologies**

- Depending upon the brand and the application, CTCSS may also be called **PL** (Private Line); **CG** (Channel Guard); **TQSL** (Tone Squelch. Such expressions usually refer to combined encoding *and* decoding.
- Some radio manuals and other reference may use 'CTCSS' with reference to a system of encoding *and* decoding but just "**Tone**" or “repeater operation” when referring to *only* encoding (e.g. Kenwood TM-V71A).
- DCS (Digital Coded Squelch) is similar to CTCSS in application but uses different technology (not to be confused with DSC Digital Selective Calling in marine radios, which has some similarities in application).

## CTCSS is controlled differently in various radios

- Generally, a radio can be set (a) to encode only *or* (b) to encode *and* decode at the same tone frequency. The former is usually referred to as **T**(tone) and/or “repeater tone,” and the latter as **TSQL** , **CTCSS**, **PL**, **CT**, etc. BUT...
- Some radios can be set to either encode *or* decode *or* both, with the same or different tone frequencies for TX and RX. (e.g. Wouxun KG-UVD1P uses T-TCT for encode and R-TCT for decode but **CT** is displayed when transmitting or receiving).
- Whilst most repeaters are set up to require a tone on the receive frequency, they may or may not encode a tone with the repeated transmission.

## There are Pros and Cons of CTCSS in various situations

- If *all* users on particular frequency use both encoding *and* decoding, they can conduct a net without hearing interference (but the transmissions on this net could still interfere with others using the same or very close frequencies).
- By agreement, users in overlapping coverage areas can operate on the same frequency without interfering with each other by using different CTCSS tone frequencies.
- If a receiver is set to hear only an encoded signal at a particular frequency an operator may unintentionally step on other stations because he/she cannot hear that the frequency is in use. (Some radios can prevent this with a “busy channel lockout” function to prevent transmitting if the frequency is in use).
- It is a bad idea to use any coded squelch system to hide interference issues in systems with life-safety or public-safety uses such as police, fire, search and rescue or ambulance company dispatching. Adding tone or digital squelch to a radio system doesn't solve interference issues, it just masks them. The presence of interfering signals should be corrected rather than masked.

## Summary

Tones can be confusing, not only because of the difference among radio brands in terminology and operational controls but also because the way they work is counter-intuitive. It is very easy to fall into the misconception that a tone on your transmitted signal will prevent other stations from hearing your signal. But the reality is much the opposite: if you do *not* encode a tone on your transmitted signal, then other stations (such as a repeater), that have enabled tone-decoded squelch will not hear you. Conversely, if you have enabled tone-decoded squelch on a frequency, you will hear *only* stations that have encoded the same tone on that frequency.

**Remember:** *a key doesn't prevent you from entering unlocked gates but a locked gate prevents entry without the correct key.* The tone you transmit (encode) is a key; the tone squelch activated in a receiver (decode) is a locked gate.

*Note: MARCI member Jim Letterio, KD5FQM, discovered this article on the internet and found it very helpful. This article is being used by permission from the author, Gary Morrison, VE7POP.*

## Pictures from Our July 16<sup>th</sup> MARCI Social Event

Here are some pictures from Jim Zientara, W4MAN. Thanks for sharing these, Jim!

















# September Puzzle – Geoff Haines – N1GY

## QST SEPT 22

TMLRLXLSSELERIWAX  
QYLEEMERGENCYFNJM  
PRVTLWSRETLIFTDYZ  
KEHTBOATSSQKEWWYN  
NLLIEJOYRTTNCWVEL  
ILCMMLGKWE NCJRTVC  
TOBSAKEJBAPYAHKNR  
ARHNTFVCSAYOETOXN  
NTYACBMYRMCRLINKR  
UNGRHWAYGANKTSROH  
TOATMWLNMEFNDKEFC  
NCIBAKICTRETGGPLP  
PMNTKDAKNVJOBPNYC  
QVRNERSKMRIMQMOXT  
XVXYRDQATDRYRDCFJ  
KZTKNKHNARGGZDHWX  
XTWPMLVRCYDESKTOP

[www.WordSearchMaker.com](http://www.WordSearchMaker.com)

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COPPER	HYGAIN	TUNATIN
DESKTOP	LOOKBACK	WIRELESS



# Items for Sale

Chuck Grossman – KO4RRG – Call (941) 933-0354 and [charlesgrossman54@Gmail.com](mailto:charlesgrossman54@Gmail.com)

Pair of hand held Kenwood transceivers: price \$100 or best reasonable offer; includes batteries.

- TH-K2 - 2M FM
- DUAL BAND TH-G71 FOR BOTH 2M and 440 M bands

Both take AA batteries that are included and come with 2 small manuals and 1 manual in a ring binder. The information is extensive.

Both units are in excellent working condition.

\*\*\*\*\*

Jack Ham – WG9X – [WG9X@arrl.net](mailto:WG9X@arrl.net) and (941) 567-6716

I now have for sale the following:

- (2) 10 M Hamsticks
- (4) ProAm Ham Stick type antennas: PHF 12,17,20 and 40. The numbers are the respective bands in Meters. The 40M has a railing or ladder clamp on it with the interface connector.
- Included are 4 other ProAM antennas. I do not know the bands they are for. They can be seen on Maple Leaf Communications Web Site.
- Asking \$50 for all. What a deal!

I also have a DISCONE Antenna. Used at camper for 2m and 70cm. Worked well.

I will throw in a 10' section of ½" pipe for mounting. Asking \$ 50 for this antenna as well.

Another great deal.

**Gould OS3600** Dual Trace 100 MHz Oscilloscope with **DM3010** Digital Measuring Unit. Complete with Operating Manuals, Parts List and Schematics. Vintage equipment category. Scope works fine but there is no power getting to the DM3010. Was used as demo equipment for shows and customers. Otherwise has very few hours on it. Will sell for \$125. Great for bench service work.

**IEC 20MHz Log Linear Sweep Generator Model F77.** Complete with (2) Operating Manuals, Parts List and Schematics. Vintage equipment category. Works fine. Was used as demo equipment for shows, customers, and a few personal audio projects. Instrument has very few hours on it. Will Sell for \$75. Great for bench service work.

MFJ-931 Artificial Ground. \$50.

\*\*\*\*\*

Mike Wise - K4PRO - Call (941) 704-4030

Vibroplex CW Keyer with Plexi cover. Asking \$150.

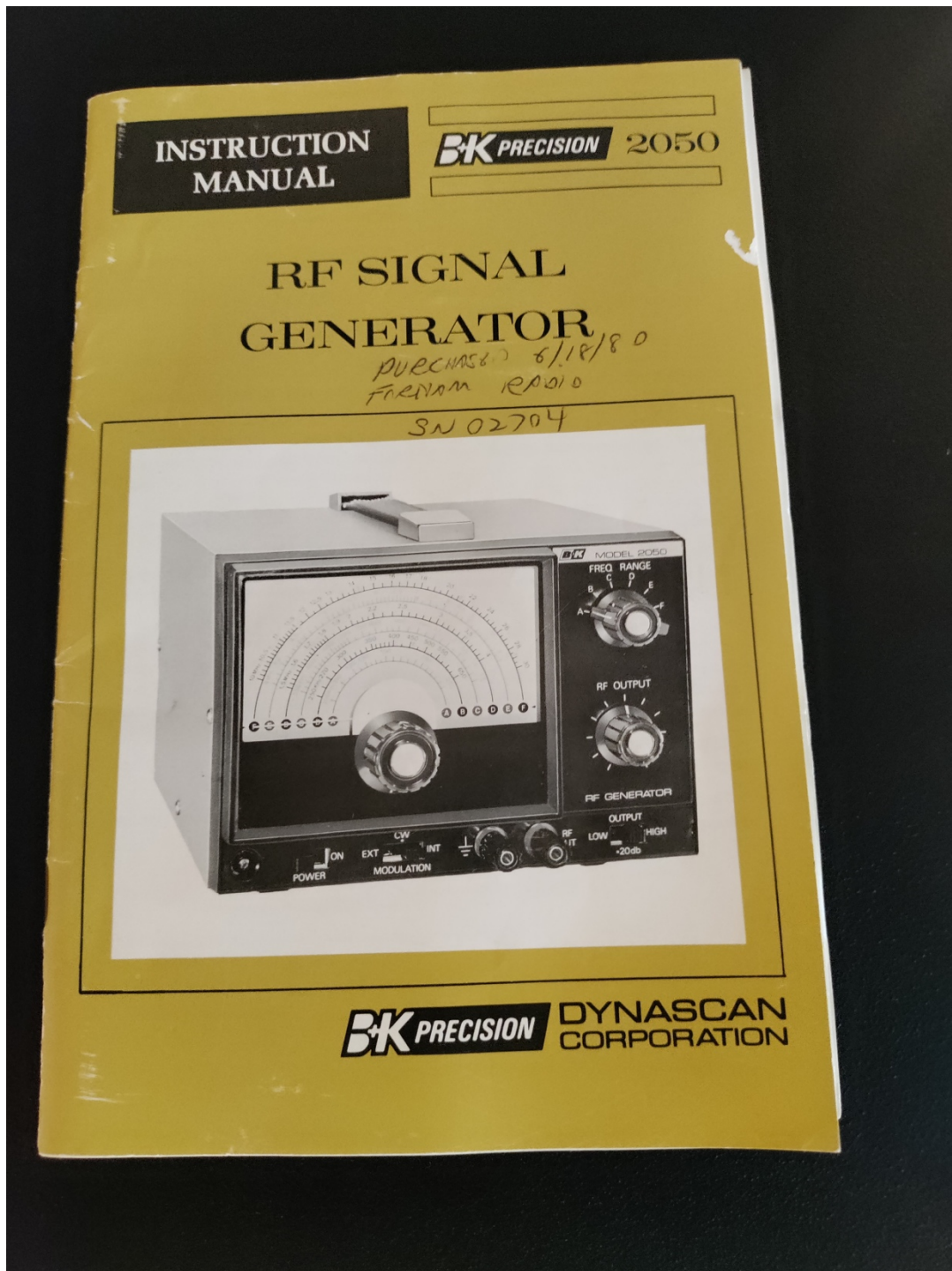
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Pete Jarosik – KA1WBE - Please call or text (941) 580-8696

- Dentron AT 3KW tuner.  
Capable of open wire, balanced line, and unbalanced line (50-ohm coax) asking \$150.



- B & K RF Signal Generator Model 2050  
Frequency range: 100 kHz to 30 MHz  
This unit is in like new condition. Asking \$ 75.00



- Kings Type RF connectors for RG-8U, RG-213 \$5.00 each or 5 for \$20

- MFJ Voice Keyer \$100



- Astron RS-12 Power Supply. Asking \$35.





Estate Sale Items from Steve Milovich, W4ASM, of Parrish  
Contact Pete Jarosik – KA1WBE - Please call or text (941) 580-8696

Swan Radios — MAKE REASONABLE OFFER  
240, 350 (3), 350A, 350B, 350D, 400 (2), 500. Cygnet 300B

Antenna Tuners  
ST-1 (2)



It covers the bands of 160-10 meters, switched inductance T-match type, and is designed as a legal limit (1 kW) tuner, built to complement legal-limit amplifiers.  
Asking price \$100

Swan Watt Meter WM-2000 — \$45



Linear Amplifiers

Swan 1200z — \$350



CUBIC 1500ZA — \$350



\*\*\*\*\*

Jack Mrozak – K2CTH – (941) 254-7393

Since hurricane season is here, this is a perfect item for emergency power:

Yamaha Inverter Generator, 1600 watts/2000 watts peak. Never used. Bought new about 2 years ago for \$550. Will sell for \$400. Nice for emergencies or field day.



\*\*\*\*\*

Geoff Haines – N1GY – (941) 447-8579 (cell) or (941) 752-3696 (home)

- I now have 3 headsets for sale, priced at \$15.00 each, for which I can build adapters to fit most radios. This includes the adapters to change them from 4 contact plugs to 2 x stereo plugs. The adapter from there to the radio would be extra depending on the Brand and Model of the radio.
- Offer to build: Custom extension cables for any remote-able radio such as the Yaesu FTM-300, 350, etc.
- Anderson Powerpole Power Distribution Blocks in 4+1, 6+1, and 8+1 sizes \$10, \$15, \$20 each respectively. Can custom build to suit.
- In addition, I have more parts and components than I will ever use, so if you need something, a transistor, a plug, a jack, etc. Call me first, I will give you a great price (as in no charge).

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## MARCI Library

The MARCI library has over 45 amateur radio books and study aids available for short term loans. Please visit the MARCI website at <http://manatee.startlogic.com/WP/marci-library/> for a complete description.

## VE Exam Sessions

When you're ready to take the Technician, General or Amateur Extra License exams, you may take them locally.

VE Exam Sessions: Saturdays - October 15, 2022 (at MARCIFEST) & December 17, 2022.

### **Location:**

Bible Baptist Church of Bradenton  
2113 57th St E  
Bradenton, FL 34208

**Testing starts at 9:00 am.**

**Contact:** James E. Woodson  
(941) 301-8703

**Sponsor:** Manatee Amateur Radio Club, Inc.

## Websites of Interest

Our MARCI website: [Manatee-ARC.org](http://Manatee-ARC.org)

The ARES website: [MCESG.org](http://MCESG.org)

Manatee County Public Safety: [https://www.mymanatee.org/departments/public\\_safety](https://www.mymanatee.org/departments/public_safety)

ARRL: [ARRL.ORG](http://ARRL.ORG)



# Club Meetings

## Monthly MARCI Club Meeting

Our September 6<sup>th</sup> meeting will be “in person” at the Bible Baptist Church located at 2113 57th St E, Bradenton, FL 34208.

## Monthly MARCI Board of Director’s Meeting & MARCIFEST Run Through

Tuesday, September 20<sup>th</sup> at 6:30 pm at the Bible Baptist Church.

## Monthly ARES Meeting

General membership meetings are held on the 4<sup>th</sup> Tuesday each month. The next regular general membership meeting in September will be on Tuesday, September 27<sup>th</sup> at 7 pm at the Bible Baptist Church of Bradenton and will also be available on Zoom.

Unless changed by Manatee County officials, the meeting will be held in the EOC on a quarterly basis. The next quarterly meeting would be on November 22<sup>nd</sup>. If a change to the schedule is made, you will be notified directly by the ARES staff, and this newsletter will be updated.

# Clubs and Other Nets

MARCI Info Net	Sunday 7:00 pm	146.820 - 100 Hz
ARES Net	Monday 7:00 pm	146.820 - 100 Hz
MARCI Traders Net	Wednesday 8:00 pm	146.820 - 100 Hz
Manatee SKYWARN Net	Thursday 8:00 pm	146.820 - 100 Hz
WCF Eagle Net (Local NTS Net)	Nightly 8:30 pm	145.43 - 100 Hz or 442.95 + 100 Hz
WCF Technical Net (tech assistance)	Thursday 9:00 pm	145.43 - 100 Hz or 442.95 + 100 Hz

## **PLEASE PARTICIPATE IN ALL OF THE NETS ON OUR REPEATER**

Our Manatee Amateur Radio Club Net every Sunday night at 7 pm on the K4GG repeater, 146.820, is an excellent opportunity to learn about all the fun amateur radio activities that are happening in our club and across our ham radio community.

Our Club Net on Sunday night is often very poorly attended. Our club has over 60 members. Surely at least 15 or 20 of you can take 20 minutes out of your Sunday evening to check into your own club net!

On Monday evenings, feel free to drop in on the Manatee County Amateur Radio Emergency Service (ARES) Net at 7 pm. They are a bit more tactical and an easy way to improve your own operating skills.

On Thursday evenings at 8 pm, we host the National Weather Service SKYWARN Net. Everyone is interested in the weather and SKYWARN is an easy way for you to contribute to this popular public service program.

DON'T FORGET about the Regional Nets on NI4CE on 145.430 and 442.950. The Eagle Net, the National Traffic System Traffic Net, is on every night at 8:30 pm. Whether you are interested in "Traffic Handling" or not, everyone is welcome to check in and enjoy putting your radio to good use. They also host the regional SKYWARN Net on Tuesdays at 9 pm.

The ARRL West Central Florida Technical Net is a very popular and informal activity held every Thursday at 9 pm or immediately after the end of the Eagle Net should that net run a little over.

With so many opportunities to listen in and participate, you are sure to meet new folks and discover many more of the interesting ways to use and enjoy your amateur radio license!