



THE SCOPE



The Central Michigan Amateur Radio Club and Lansing Civil Defense Repeater Association

VOLUME 20, ISSUE 3

APRIL / MAY 2020

CENTRALMIARC.COM

A Tale of the Michigan QSO Party

By Shannon Ranes, WA2NVK

Saturday, April 18, 2020, arrived, and Randy the Radio had expectations of an exciting day at CMARC's Michigan QSO Party. The contest had been advertised, Club members had used him before and after meetings, and everything worked great. He had not let them down during the last contest, so he knew they were excited to see him! His friend, Ollie the Off-Center Fed Dipole, was waiting outside the building. He swayed in the breeze in anticipation of being the one to kick off the contest. He was great at reaching those Ham stations within Michigan. Friends in 83 counties wanted to hear from him! The newest of the crew, Micah the Mosley Tri-bander, was still getting used to contests, but with elmering from Ollie, he was feeling confident. The Club members worked hard to make sure he was high on the tower and shined in the sun. He was going to make sure those Hams outside Michigan could hear the Club!!

The three friends waited for the operators to arrive. They knew they would see friendly faces by 10 am. The smell of coffee and donuts would greet them, and maybe even that little girl would come again? Her face lit up every time she made a contact at Winter Field Day. Everyone loves to acknowledge a female voice! Oh, it would be a great day!!

But 10 am came, 11 am, even noon when the contest was to begin. Where was everyone? Why didn't they show up? Did the XYL's give out "honey-do" lists? As the sun began to set, Randy, Ollie, and Micah realized they must have missed something. What happened? They did their part, they were ready and willing, but silence was the reply. Well, they knew there must be a reason and would be ready for next time the operators needed them. ■

So, did you use your Randy, Ollie, or Micah during the Michigan QSO Party? Since we were unable to operate together at the club station, and may not be meeting together for some time, it would be nice to publish stories of those who participated in the contest while quarantined. Here is an opportunity to tell your story.

You can email your "Soapbox" entries to cmarcscope@gmail.com, and they will be included in an upcoming issue of the Scope.

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The Scope is a bi-monthly joint publication of the Central Michigan Amateur Radio Club and the Lansing Civil Defense Repeater Association.

Please send any articles, classified ads, or other items to the Editor, Chris Ranes, NS8Q at cmarcscope@gmail.com. Pictures should be mailed in .jpeg format, and articles in Microsoft Word or TXT format.

The views and opinions expressed by our contributing authors do not necessarily reflect the views of the Central Michigan Amateur Radio Club or the Lansing Civil Defense Repeater Association.

Treasurer's Reports 2020

Shannon Ranes / WA2NVK- CMARC Treasurer

Bank Balances for March	
Beginning Balance	\$3,336.69
Total Monthly Income	\$40.00
Total Monthly Expenditures	(\$0.00)
Total Business Checking	\$3,376.69
Petty Cash	\$1.00
Outstanding Checks	(\$40.00)
Sub Total + Petty Cash	\$3,337.69
Primary Share Accounts	
Humphrey's Fund	\$384.22
Building Fund (Club Station)	\$19.09
Field Day	\$178.80
Total Net Worth	\$3,919.80
Youth Fund Balance*	\$254.72
* Separate from CMARC Funds	

March 2020 Summary:

We deposited \$40 in dues. We did not have any expenses. A \$40 memorial check (written in January) has not been cashed.

Treasurer's Reports 2020

Shannon Ranes / WA2NVK- CMARC Treasurer

Bank Balances for April	
Beginning Balance	\$3,376.69
Total Monthly Income	\$0.00
Total Monthly Expenditures	(\$0.00)
Total Business Checking	\$3,376.69
Petty Cash	\$1.00
Outstanding Checks	(\$40.00)
Sub Total + Petty Cash	\$3,337.69
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Humphrey's Fund	\$384.22
Building Fund (Club Station)	\$19.09
Field Day	\$178.80
Total Net Worth	\$3,919.80
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* Separate from CMARC Funds	

April 2020 Summary:

We did not deposit any dues. We did not have any expenses. A \$40 memorial check (written in January) has not been cashed.

2020 Ladies Night / Ziegenbein Award Banquet

Due to the current COVID-19 Lockdown, our May 8th meeting, which includes Ladies Night and the Ziegenbein Award Banquet, has been postponed.

Watch for details on a new date for this event.

2020 SCHEDULE OF VE EXAMS

Sponsored by the
"INGHAM COUNTY VE GROUP"

To best accommodate the various schedules of those wishing to test, the Ingham County VE team meets on either a Saturday morning or a Thursday evening, every other month. We test in the Community Room at Lansing Fire Station #44, 1435 East Miller Road, Lansing, Michigan 48911.

On the ODD MONTHS testing sessions are held on the second Saturday of the Month at 11:00AM.

On the EVEN MONTHS testing sessions are held on the first Thursday of the month at 7:00PM.

2020 SCHEDULE OF VE SESSIONS

FIRST THURSDAY OF THE MONTH AT 7:00PM

February 6th
April 2nd
June 4th
August 6th
October 1st
December 3rd

SECOND SATURDAY OF THE MONTH AT 11:00AM

January 11th
March 14th
May 9th
July 11th
September 12th
November 14th

SPECIAL EVENTS SATURDAY 11:00AM

June 27th (CMARC Field Day-11:00AM-Rayner Park, 730 East Ash Street, Mason, Michigan 48854)

September 19th (CMARC Hamfest 11:00AM - Okemos Convention Center, 2187 University Park Drive, Okemos, Michigan 48864)



Lansing Civil Defense Repeater Association

User Expectations and Repeater Operation Rules

LCDRA maintains and operates high-quality, wide-coverage repeaters for the use of all amateur radio operators. Operation and use of these repeaters shall comply fully with the Amateur Radio Service (Part 97) regulations of the Federal Communications Commission's Private Radio Service, and the following rules.

1. The repeaters are provided for the purposes of contacting and passing information between fellow amateur radio operators, and providing service to the public as a voluntary, non-commercial communication service, particularly with respect to providing emergency communications.
2. In the spirit of the Amateur Radio Service, users shall respect and support each other in a courteous and positive manner.
3. Operators shall announce their call sign before transmitting any touch-tone commands, at the end of each communication, and every ten minutes or less during a communication.
4. There shall be absolutely no communications containing obscene, indecent, or profane words, language, or meaning.
5. No one shall cause or condone the malicious or intentional interference of anyone's communications on the repeaters.
6. Operators shall not communicate with, or discuss the actions of, anyone who violates these rules.
7. Control Operators are required to turn off a repeater to terminate improper operation or use.
8. LCDRA Board of Directors reserves the right to forbid the use of the repeaters by anyone who repeatedly violates these rules, or anyone who facilitates or encourages others to violate these rules.

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Things To Do During Lockdown

By Gregg Mulder, WB8LZG

Many of us are looking for constructive things to do at home, without having to go out to get something for a few weeks. Well, here's a list to give you some ideas.

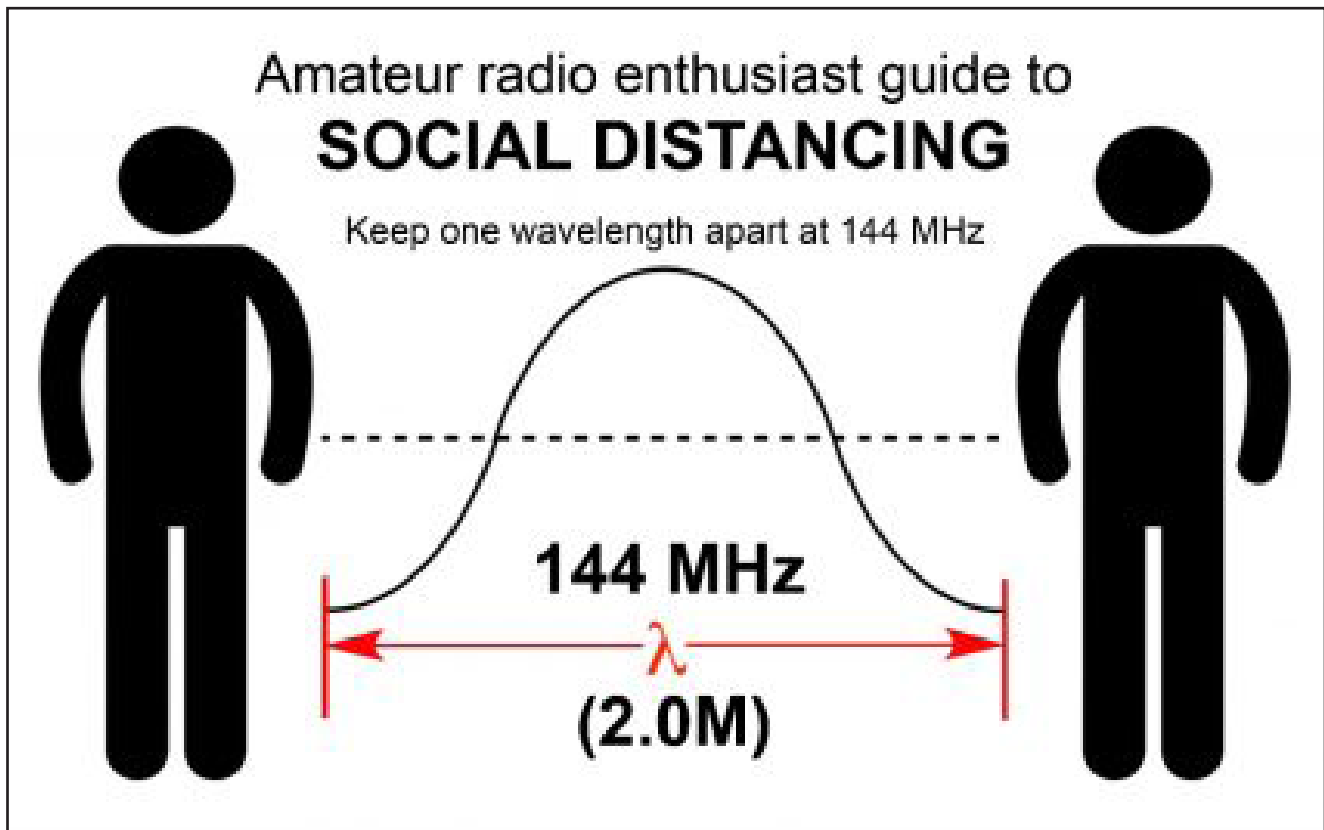
1: Clean the Shack: Turns out to be a several day ongoing project at my shack, but I must say that my operating area has never been so spiffy! I couldn't believe how much junk I had accumulated. I recycled many old paperwork articles I was saving since the '70s. I got an entire box of old cables. Some with only one end, some with no ends, all questionable, so they will go to salvage.

2: Build something: Get out the wire and dykes, and the antenna book and make a new antenna for your shack. Be it HF dipole or VHF J-pole built with plumbers delight construction. Warm up the soldering iron and fix some of those old cables. Build a kit.

3: Get on the air more: Use those airwaves! Work some DX or try one of the digital modes. Join in on the local nets. Have fun with the area hams while keeping your distance. Try the SSTV net on Sunday nights if you want to have some cheap and easy fun. Learn Morse code. There will never be a better time than now. It's easy and fun. Maybe the kids will want to learn too.

4: Write down your story: Many of you have exciting tales to share with other members of the club or some other sub-group. Now is a good time for you to author your story.

I hope this gives you all an idea or three. Stay healthy and happy. ■



“Radio for the Rest of Us” Presentation

By Jim Wades, WB8SIW

Radio Relay International has added another training opportunity entitled “Radio for the Rest of Us on May 6 at 1730Z.” This is a follow-up to our web-based “Introduction to the National SOS Radio Network and Neighborhood Hamwatch” training class to be conducted on April 29.

“Radio for the Rest of Us” is a presentation developed by the El Dorado Amateur Radio Club in response to experiences during the recent California Wildfires and widespread power outages that disabled Internet and Cellular data networks. The presenter, Alan Thompson (W6WN), will take those attending the class through the sequence of failures in cellular mobile data networks and public safety answering point service and then introduce you to the very constructive approach being taken by the El Dorado Amateur Radio Club to provide their community with an alternative in the form of a “neighborhood radio watch” initiative modeled on Radio Relay International’s Neighborhood Hamwatch and NSOS programs.

Club members are building and maintaining GMRS repeaters, training citizens in basic two-way radio communications and assisting by programming GMRS and FRS two-way radios. Radio amateurs also serve as gateways to ARES networks interfaced with local public safety services and the traffic system to offer citizens an emergency “life line” in the event of a major disaster that disrupts traditional telecommunications infrastructure.

You will not want to miss this excellent presentation. There are six slots remaining, with registration for “Radio for the Rest of Us” available at:

www.signupschedule.com/jwades

If you are not able to attend the RRI presentation on April 29 first, you may want to review these links from the RRI Web Page before the May 6 presentation:

- <http://radio-relay.org/emcomm/national-sos-radio-network/>
-
- <http://radio-relay.org/emcomm/neighborhood-ham-watch/>

- <http://radio-relay.org/wp-content/uploads/2019/06/NSOS-Hamwatch-PPT-TR-003-Final-Approved.pdf>
- <http://radio-relay.org/wp-content/uploads/2018/07/Neighborhood-HamWatch-for-Knox-County.pdf>
- <http://ballyhac.com/>

Thank you,

James Wades (WB8SIW)

Radio Relay International

National Emergency Communications Coordinator

www.radio-relay.org

www.facebook.com/radiorelayinternational



Want To Learn How To Pass Traffic?

By Dan Romanchik, KB6NU

ARRI Online Classes Filling Quickly

Participation increase attributed to nationwide stay-at-home orders.

April 14, 2020
Buchanan, MI

With national “stay at home” orders in effect during the COVID-19 outbreak, RRI’s online classes are filling quickly, attracting students worldwide with an unexpected range of motivations.

“We’re both excited and pleased by the public’s response” says lead instructor Jim Wades, WB8SIW. Wades is RRI’s National Emergency Communication Coordinator and a nationally recognized telecommunications professional. “Class registrations often fill within an hour of the announcement.”

RRI’s current classes cover a variety of topics, offered on a weekly schedule to accommodate sudden demand:

- Basic Radiotelephone Net Procedures
- Emergency Communication Theory and Planning
- Introduction to the Amateur Traffic System
- Introduction to the National SOS Radio Network and Neighborhood HamWatch civic programs.

In addition to offering a wide variety of training documents and classes, Radio Relay International regularly conducts internal emergency exercises while also providing infrastructure support for various local and state emergency communications drills.

Radio Relay International was formed in 2016 after a successful demonstration of Amateur Radio capabilities during the FEMA “Cascadia Rising Exercise” in which a prototype emergency communications response plan was implemented to link Alaska, Idaho, Northern California, Oregon and Washington State with the National Response Coordination Center at Washington,

D.C. via an all-RF system. Expert traffic operators scored a 99.998 percent accuracy rate against simulated cipher group messages while rapidly conveying communications traffic across country in minutes.

“One of the big surprises is the support we’re getting from ARES/RACES, REACT, and other local groups” says Joe Ames, W3JY RRI’s national chairman. “RRI believes all communication is ‘local’ and we emphasize the ideal of neighbors helping neighbors.”

The National SOS Radio Network and Neighborhood HamWatch programs were adopted to promote community engagement with local amateur radio clubs.

Class schedules and RRI program information are published at the RRI website and Facebook pages. ■

www.radio-relay.org • info@radio-relay.org • @RadioRelayIntl



WWROF Sponsors Hamvention QSO Party, Saturday, May 16

By Dan Romanchik, KB6NU

Hamvention may be cancelled this year, but that doesn't mean we can't have any fun on that date. The World Wide Amateur Radio Foundation (WWROF) is sponsoring the Hamvention QSO Party on Saturday, May 16. The group is touting the 12-hour event as a "fun way for people to celebrate the Hamvention experience over the air."

Here are some more details:

Contest period: 8 AM to 8 PM EDT (1200 to 2400 UTC), May 16, 2020

Bands: 160, 80, 40, 20, 15, and 10 meters CW and SSB – You can work the same station once per band mode (12 QSOs possible with same station).

Exchange: Signal report and first year you attended Hamvention. If you have never attended Hamvention send "2020".

Entry Categories: Only single operator entries – you may use assistance such as the cluster and the reverse beacon network (RBN). No self-spotting.

Power levels:

QRP – no more than 5 watts

Low Power – No more than 100 watts

High Power – no more than 1500 watts.

Scoring: Score is number of QSOs + bonus points = final score. There are no multipliers.

Special bonus points:

W8BI, the club call of the Dayton Amateur Radio Association (DARA is the host of Hamvention) will be activated by DARA members from their home stations. You can add 10 points for each band mode QSO with W8BI (12 available). So you can earn 120 bonus points (this is like having 120 additional QSOs)

To Enter: Post your score at 3830scores.com within 5 days of the event (May 21, 2020). No logs are required.

Awards: An online certificate will be available to all stations that post a score before the deadline.

Questions: Contact Tim Duffy, K3LR, k3lr@k3lr.com

Sounds like fun to me!



A modest proposal (for the next Extra Class question pool)

By Dan Romanchik, KB6NU

At our last club meeting, I was discussing the changes to the Extra Class question pool with someone, and the topic of memorizing the answers popped up. As I always do, I mentioned that many of the questions you can only get right by memorizing the answer. At that point, someone down the way piped up. “Not me,” he said, “I studied the material so that I didn’t have to memorize the answers.”

At that point, the president called the meeting to order, so I didn’t get to challenge him on that point, but that statement is just plain wrong. First of all, it’s true that some questions you can only get right by memorizing the answer. Almost all of the rules questions are that way, for example.

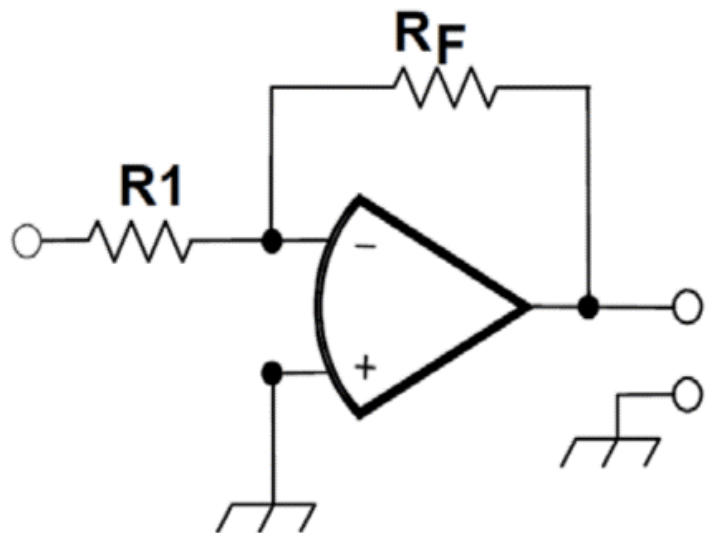
Secondly, there is no way to study the rest of the material in any depth and still have time to actually be an amateur radio operator. The amount of material that the Extra Class question pool covers takes an electrical engineering student four years or more to study thoroughly. And even then, some topics are bound to get short shrift.

So, we’re back to memorizing. I would say that even an “engaged” person will memorize about half the answers. I’d go even further and say that those that “study” the technical topics, don’t study it as thoroughly as a college student would.

For example, there are a dozen questions in Section E7G – Active filters and op-amp circuits: active audio filters; characteristics; basic circuit design; operational amplifiers. Despite the name, you don’t need to know how to design or build an op-amp filter. All you really need to know is that op-amps are high gain devices and if you have a circuit like the one shown below,

$$V_{out}/V_{in} = R_F/R_I.$$

Figure E7-3



These concepts are relatively easy to learn, but there are also two questions on filter “ringing.” Honestly, you’re better off just memorizing the answers to those questions unless you have a real interest in active filters that use op amps. Wading into the mathematics isn’t all that hard, but when you consider this is only one of dozens of topics, you can see where doing any kind of in-depth study is going to take you months, if not years, to accomplish.

A modest proposal

The end result of this approach to testing is that we have many Extra Class licensees who know about a lot of things, but not in very much depth. Perhaps that’s OK. Perhaps that’s just what the question pool committee of the National Council of Volunteer Examiner Coordinators (NCVEC) was shooting for. If, however, we want an Extra Class license to denote that the licensee has some real technical expertise, I have a modest proposal.

See QUESTION POOL, Page 11

Basically, my idea is that instead of testing on an incredibly wide range of topics, we test applicants on a set of basics, plus one or two particular topics. These would be topics that the person has expertise in already or enough of an interest in to study the topic in some depth.

Below are the topics that I would consider to be basic and some that I consider to be more specialized. This is, of course, not an extensive list.

- Base questions (20 questions, everyone takes this part of the exam)
 - Safety
 - Rules and regulations
 - Electrical principles/basic circuits
- Technical Interests (Choose two, 20 questions each)
 - Antennas and transmission lines
 - Radio wave propagation
 - EMI/RFI
 - Analog and digital design
 - Digital communications and networking
 - Software/software-defined radio
 - Operating: contests, DXing, direction finding, etc.
 - VHF/UHF

The questions in each of the technical interest question pools would be designed to really test the knowledge of the person taking the test. We'd have to figure out a way to make them difficult enough so that one couldn't just simply memorize the answer. Questions could appear in one or more technical interest test. For example, a question on VHF/UHF propagation could appear in both the Radio Wave Propagation and VHF/UHF question pools.

Having said all this, I realize that this would not be easy to implement. You'd have to first decide on the topics and then enlist experts for each of the topics and get them to come up with a list of 80 – 100 questions each.

I realize that this has very little chance of being adopted, but it's interesting to think about, no? And, we have four years to do this, so it could be possible. ■

Dan Romanchik, KB6NU, is the author of the KB6NU amateur radio blog (KB6NU.Com), the "No Nonsense" amateur radio license study guides (KB6NU.Com/study-guides/), and often appears on the ICQPodcast (icqpodcast.com). When he's not thinking up ways to make the lives of the NCVEC question pool committee more difficult, he likes to build stuff and operate CW on the HF bands.

CMARC Field Day 2020 Update

By: Dan Beuchert, WX8MOJ (Field Day Chairman)

Over the last few months, much has happened, so much of it unprecedented in recent times. It's now May, and less than two months from Field Day 2020. There are still more questions than answers, as Field Day is usually a pretty public exercise of hams working together in close quarters in a public location. Personally, as a teacher, I have gone from going home to wait and prepare for a possible return, to full speed ahead on remote learning while racing to get students prepared to connect to us online at the same time. The past few weeks have been a whirlwind for me and my family, as I'm sure it has been for many of you and yours.

That being said, Field Day is coming. I will be reaching out to those who have helped out in the past and seeing what they may be able to do this year. There are a lot of unknowns heading forward, not the least of which is what the recommendations are at the State and local levels regarding crowd sizes, physical distance, state of business in the community, and access for public events in parks. We will be monitoring all of this, keeping an eye on the recommendations at all levels, and guidance from the ARRL. As the ARRL has stated, Field Day is about adapting to unknowns, and there are a lot of them, but I look forward to what we can do as individuals, as a club, and as Radio Amateurs to sharpen our skills in the upcoming Field Day.

Beware of Incompetent Technicians

By Jim Wades, WB8SIW

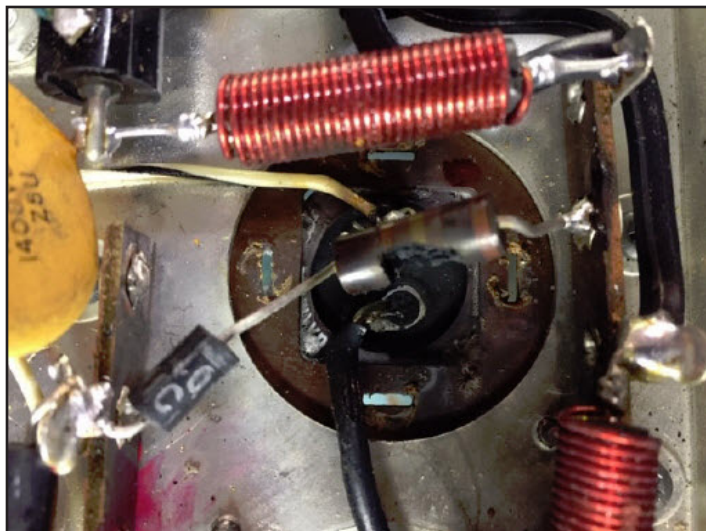
Some months ago, I purchased a Drake AC4 power supply to put an old Drake T4X-C transmitter back in service. The seller advertised the power supply as “rebuilt” and seemed forthright and honest. It turns out that he was not only honest, but also a terrible electronics technician.

Upon receiving the power supply, it worked well, so I installed it and began using the transmitter. Everything functioned fine for a couple of months until one day, while the gear was warming up for a net session, a loud bang was heard and the aroma of acrid electronics filled the air.

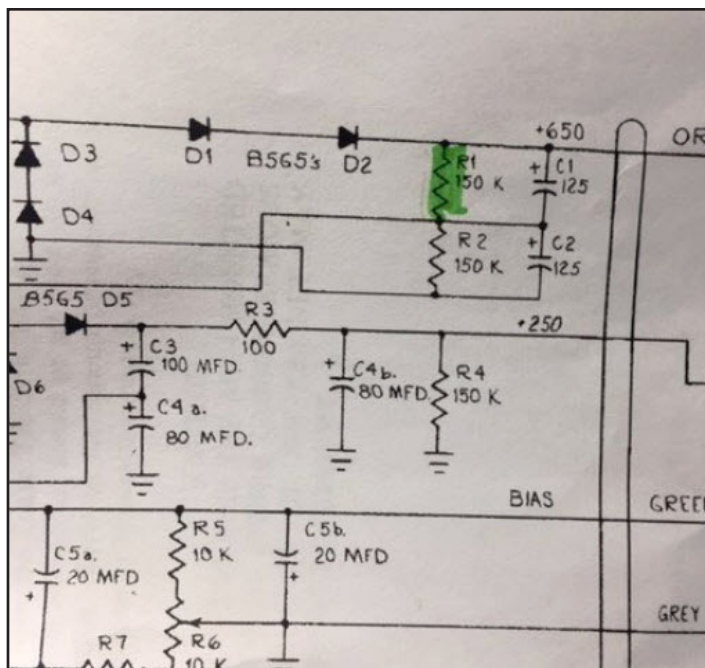
The power supply was immediately examined. Upon removing the case, a damaged 150K resistor was found. It has shattered and broken in half. A look at the schematic revealed the problem. The ham who had “rebuilt” the power supply connected a 150K ohm, 1-watt resistor between the 630-volt B+ line and ground, rather than placing the resistor across the capacitor as indicated on the schematic. Over time, the resistor overheated and decayed until, at some random point, the high voltage arced across the resistor to find ground, creating a rather impressive failure mode and blowing the 5-amp slow-blow fuse!

Considering the error, it is rather surprising that the resistor lasted as long as it did! While the voltage drop was relatively minor, a simple calculation using Ohm’s Law indicates the resistor, rated for 1-watt, was dissipating approximately 2.6 watts, significantly exceeding its rating. Had it been installed properly, the actual dissipation would have been approximately 0.6 watts, well beneath the rating of the original resistor.

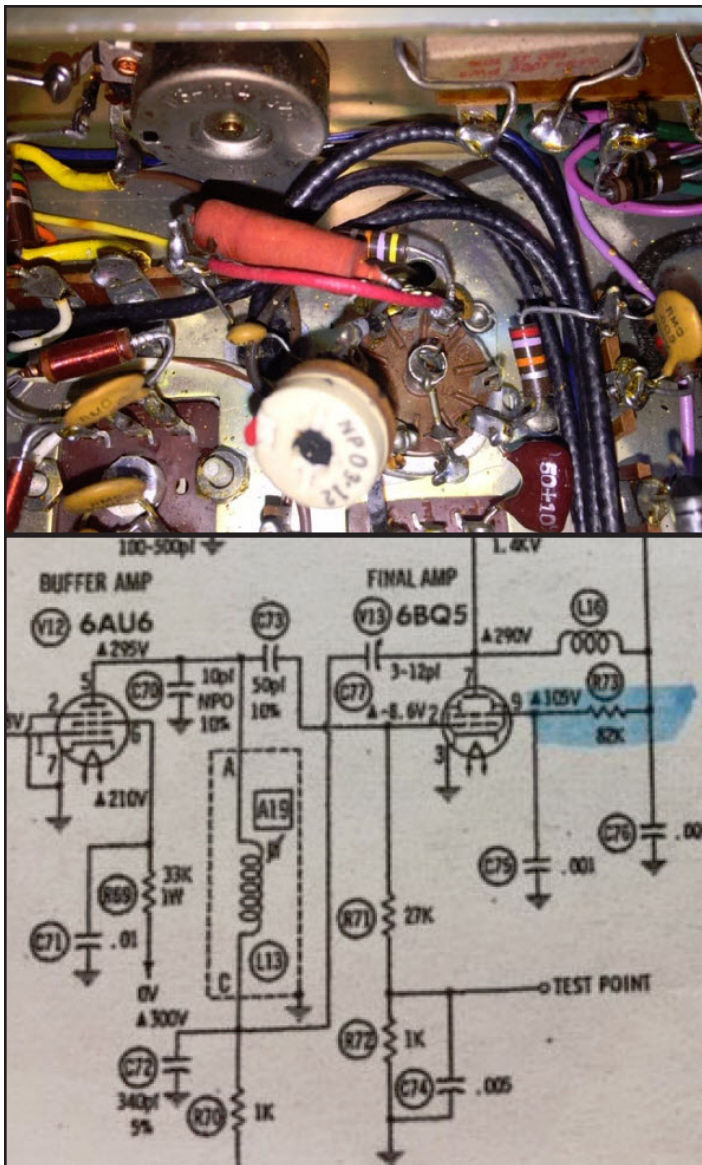
Fortunately, I found a 150K, 1-watt resistor in my well stocked “junk box,” allowing me to restore the power supply to proper operation with minimal delay.



A “well-done” 150K ohm resistor in an improperly rebuilt Drake AC4 power supply.



Schematic diagram showing the proper location of the cooked resistor in the circuit.



A “golden screwdriver” modification to an older Sonar FS-23 CB radio. More power!!!



A Sonar FS-23 CB from 1964. Occasionally called the “Collins of CB Radios,” its beautifully constructed.

Clearly, the seller had no dishonorable intentions. He was just a poor technician. The rebuild had cold solder joints, wires simply solder-tacked to terminals and other poor workmanship. Most importantly, he didn’t examine and understand the schematic diagram before commencing work.

In another case, I was restoring an old Sonar FS-23 CB radio. It was an impressive piece of equipment with excellent build quality and a fun Saturday afternoon project.

Of course, as you might expect, there are few CBers in this world who don’t want more “power.” In this case, some “golden screwdriver” technician had bypassed the screen dropping resistor on the 6BQ5 PA tube, effectively placing the same voltage on both screen grid and plate!

One might say that modifying a good piece of equipment in this manner is much the same as using a fine micrometer as a C-clamp!

The moral of the story is simple: If you buy something on eBay or from a classified advertisement, of even if a piece of equipment is given to you, examine it carefully upon receipt. Even if the seller is completely honorable, there may be unforeseen incompetent repairs or problematic modifications present, some of which might even be dangerous. ■

The article and pictures were used with permission from Jim Wades, WB8SIW as published in the QNI Newsletter, official publication of Radio Relay International.

CENTRAL MICHIGAN AMATEUR RADIO CLUB

BOARD OF DIRECTORS MEETING MINUTES

Saturday, March 7, 2020

Attendance

Board Members Present: Carl Canfield (K8YHH), Dan Dembinski (KD8YDE), Gregg Mulder (WB8LZG), Shannon Ranes (WA2NVK), Gordy Smith (KE8JKS), Clyde Tompkins (K8CPT), Don McLain (KB8RAD)

Visitors: John Doornhaag (KD8NNQ), Bill Thompson (KE8KFA), Ed Hude (WA8QJE), Chris Ranes (NS8Q)

Call to Order

- The meeting began at 7:00pm.

Club Location

- There was talk about creating a contingency plan since the club location may be sold. Ideas ranged from finding a new home with a different owner to possible owning our own place.

March Presentation

- Gordy's brother Jeff will be doing a presentation of an amazing antenna that he built.

Club Soldering Class

- Gordy was going to schedule a soldering class for paid members.

Club Cleanup

- There was talk about doing the building cleanup as scheduled.

Club Open House

- There was talk about continuing the club open house as scheduled. However, because of worries about the Covid-19 Virus, it was decided that we would postpone the open house.

Raynor Park

- Chris relayed information from Dan Beuchert that the City of Mason renewed our agreement with them, giving us permission to use the park for Field Day the next three years.

Antenna Tower

- There was more talk about getting a group of guys together to set up the antenna tower that was given to us. Safety is a priority as this portable mast is extremely heavy and potentially dangerous.

Helping a fellow Ham in need

- Dan Dembinski asked about doing something with Mathew Taylor in Owosso. He is in a nursing home and has a nice ham radio setup. It's been a hit with many of the residents. He asked if we could send up ham radio magazines and stuff.

Adjournment

- Motion by Clyde Tompkins to close the meeting. Second by Gregg Mulder. Approved by all.

Respectfully submitted,

Clyde Tompkins (K8CPT)
CMARC Secretary

CENTRAL MICHIGAN AMATEUR RADIO CLUB

GENERAL MEETING MINUTES

Friday, March 13, 2020

Attendance

Board Members Present: Carl Canfield (K8YHH), Dan Dembinski (KD8YDE), Gregg Mulder (WB8LZG), Shannon Ranes (WA2NVK), Gordy Smith (KE8JKS), Clyde Tompkins (K8CPT), Don McLain (KB8RAD)

Board Members Absent: None

General Members: 23

Visitors: 1

Call to Order

- The meeting began at 7:00pm.
- John Winn (KE8CYC) held the American Flag during the Pledge of Allegiance.

Sign-in Sheets

- Please make sure to sign the sign-in sheets circulating around the room at each meeting. One sheet for members and another for visitors. We use these sheets to keep track of how many people visit us each month.

Card and Flowers Report

- A card was sent out to Andrew Smith.

New Members / Visitors

Treasurer's Report

Motion: Dan Dembinski (KD8YDE) moved to accept the Treasurer's report as published on the CMARC website, seconded by John Doornhaag (KD8NNQ), approved, and the motion carried.

Secretary's Report

Motion: Don McLain (KB8RAD) moved to accept the Secretary's report as published on the CMARC website, seconded by Dave Vick (W8ZZX), approved, and the motion carried.

Interesting DX or Other Contacts

Old Business

- Russ spoke about planning for Ladies Night. Location will be at Henry's Place in Okemos. We need to get enough people so that we can get the best deal for our meals at \$15 per person. Russ is also working on an alternative for anyone that is on a special diet. Russ and Kelly ask that a couple people help them with planning and bouncing ideas around to make things fun for everyone. We also need to keep growing the event.

New Business

- Dan (KD8YDE) said it would be nice to create a picture collage of all the Zigenbein Award winners. Voting for this year's award will end this coming Sunday.
- Gordy told the club members that we may lose the building. The owner confirmed that this may happen. There was talk about storing the club assets at a club members house if this happens. There was also talk about us potentially getting our own building. We need to look for grants and help from external resources. Gordy also asked if people may be willing to pay more for membership to make it easier for us to have capital to support the club.

Adjournment

- With no further business to discuss, Dan (KD8YDE) moved that we adjourn the meeting, seconded by (), approved, and the motion carried.

Tonight's Presentation

- Gordy's brother Jeff came in to do a wonderful presentation on a unique antenna that he built.

Respectfully submitted,

Clyde Tompkins (K8CPT)
CMARC Secretary

CLASSIFIEDS

Gregg Mulder / WB8LZG
(517) 646-6257 after 3pm

\$425

Elecraft K1 HF XCVR Kit

UNBUILT, new in box, 4-bands with
backlight, extras

\$200

Ten Tec Argonaut 509 QRP HF

Transceiver

D104 Mic, Speaker, Nice Condition,
and works fine!

\$25

Little Bugger Keyer

Very tiny. 9v operation.

\$5 Each

Books

RSGB VHF-UHF Manual

Books by Bill Orr

VHF Handbook

Beam Antenna Handbook

Ed Hude / WA8QJE
Cell: (517) 420-7550
ebhude@yahoo.com

\$350

Icom IC-718

HF rig with manual, power cord
and HM-36 hand mike, Excellent
condition



Ed Hude / WA8QJE
Cell: (517) 420-7550
ebhude@yahoo.com

\$200 Firm

Icom IC-551D

All-mode 6-meter rig with ICOM
hand mike. This unit has the FM
board, and a communications
Specialists SS-64 microminiature
CTCSS encoder installed. This rig
requires a separate 12 VDC power
supply.

\$100

Kenwood TS-230

80-10 meter antenna tuner, with
manual, excellent condition.

\$48

Seiko Watches

(Railroad Certified, Solar
rechargeable) watch, analog face,
White faced, 24 hour background,
day/date, **Gold OR Silver finish**,
not used with box.

From the Estate of W8LKE
Thomas Romanauski
(NonSmoker)

Ed Hude / WA8QJE
Cell: (517) 420-7550
ebhude@yahoo.com

\$900

Yaesu FT-950

HF -50 Mhz rig, Yaesu FP1030A
power supply, Yaesu SP2000
speaker with 2 filters and Yaesu
MD100ASX desk microphone. All
items are like new, and in matching
boxes. (Will not separate)

\$330

Yaesu FT-8900R

Quad-band rig (10, 6, 2, 440) like
new in box with instruction manual
and Nifty operating guide. Comes
with like new Diamond CR-8900A
quad-band mobile antenna and
K600s trunk lid mount. Used inside
the mobile home. Like new with
box. (Will not separate)

\$200

MFJ 269

HF/VHF/UHF SWR Antenna analyzer,
like new in box with instructions,
including Nifty mini manual.

\$95

MFJ 931

Artificial ground, new in box.

\$75

Diamond SX-400

140 to 525 Mhz SWR/Wattmeter,
like new in original box with
instructions.

\$50

Diamond SX-200

In original box like new with
instructions.

\$20

Workman SWR/Watt Meter

145/440 Mhz

Gregg Wesley / KD8PA
(517) 614-6573

Aluminum Tubing, Masts,
and other odds and ends
for antenna building.



Central Michigan Amateur Radio Club

W8PLP/W8MAA

Membership Form



For new CMARC applicants: Please complete all sections.

For existing CMARC members: Please include your Name and Call Sign along with only the information you would like changed.

Mail completed form to Membership Chairman (see address below) or take to Club meeting for processing. Please include payment if applicable. (Checks or Money Orders should be made payable to 'CMARC').

John Doornhaag | 1165 South Ainger Rd | Charlotte, MI 48813-9540

Membership Type		<input type="checkbox"/> New	<input type="checkbox"/> Renewal
Full:	<input type="checkbox"/> Annual Dues: \$20.00 <i>Includes voting rights and an annual subscription to The Scope.</i>		
Associate:	<input type="checkbox"/> Annual Dues: \$5.00 <i>Includes an annual subscription to The Scope but NO voting rights.</i>		
New Licensee:	<input type="checkbox"/> Annual Dues: 1st Year Free		
Under 18:	<input type="checkbox"/> Annual Dues: Free		

Contact Information	
First Name: _____	Last Name: _____
Call Sign: _____	License Class: _____ Phone #: _____
Address: _____	Apt/Unit: _____
City: _____	State: _____ Zip Code: _____
Birthday: _____	Anniversary: _____
Email: _____	Sign up for the List Serv: <input type="checkbox"/> Yes <input type="checkbox"/> No
<small>Note: Email is used by club officers to communicate club business and may appear in the club directory for use by club members. CMARC does not share/sell contact information to other parties.</small>	

Club Communications	
Newsletter Preference (select only one option)	<input type="checkbox"/> I will download from the web site.
	<input type="checkbox"/> Please mail to my address (Note: Direct mailing increases postage costs.)
ARRL Affiliation	<input type="checkbox"/> I am an ARRL member



Lansing Civil Defense Repeater Association

Membership Form

For new LCDRA applicants: Please complete all sections.

For existing LCDRA members: Please include your Name and Call Sign along with only the information you would like changed.

LCDRA oversees the operation and maintenance of all Lansing Area repeaters. Use of the repeaters does NOT require LCDRA or CMARC membership, but your support is welcome and appreciated.

Mail completed form to Membership Chairman (see address below) or take to a meeting for processing. Please include payment if applicable. (Checks or Money Orders should be made payable to 'LCDRA').

Michael Boensch | 1897 Sunnymede Ln | Lansing, MI 48906-1356

**If you would like a membership card mailed to you,
please include an SASE with your payment. Thank you.**

Membership Type		<input type="checkbox"/> New	<input type="checkbox"/> Renewal
Full:	<input type="checkbox"/> Annual Dues: \$15.00 <i>Includes voting rights and an annual subscription to The SCOPE.</i>		
Family Mbrs:	<input type="checkbox"/> Annual Dues: \$7.50 ea. No. of Family Members: _____		
ARRL Affiliation	<input type="checkbox"/> I am an ARRL member Membership Card <input type="checkbox"/> Yes (Please see above)		

Contact Information	
First Name: _____	Last Name: _____
Call Sign: _____	License Class: _____ Phone #: _____
Address: _____	Apt/Unit: _____
City: _____	State: _____ Zip Code: _____
Birthday: _____	Anniversary: _____
Email: _____	
<i>Note: Email is used by club officers to communicate club business and may appear in the club directory for use by club members. <u>LCDRA does not share/sell contact information to other parties.</u></i>	

Central Michigan Amateur Radio
P.O. Box 54
Mason, MI 48854-0054

STAMP

To:

Activities Calendar



Date	Time	Event	Place
2/14/2020	7:00 PM	CMARC Meeting	The Club Station in Mason
2/17/2020	7:00 PM	Lansing ARPSC Meeting	Lansing Fire Station #48
3/7/2020	6:30 PM	CMARC Board Meeting	The Club Station in Mason
3/13/2020	7:00 AM	CMARC Meeting	The Club Station in Mason
3/14/2020	11:00 AM	VE Session	Lansing Fire Station #44
3/16/2020	7:00 PM	Lansing ARPSC Meeting	Lansing Fire Station #48
4/2/2020	7:00 PM	VE Session	Lansing Fire Station #44
4/4/2020	6:30 PM	CMARC Board Meeting	The Club Station in Mason
4/10/2020	7:00 PM	CMARC Meeting	The Club Station in Mason
4/16/2020	7:00 PM	LCDRA Quarterly Meeting	Lansing Fire Station #48
4/18/2020	12:00 PM	Michigan QSO Party	The Club Station in Mason
4/20/2020	7:00 PM	Lansing ARPSC Meeting	Lansing Fire Station #48
5/2/2020	6:30 PM	CMARC Board Meeting	The Club Station in Mason
5/8/2020	7:00 PM	CMARC Meeting	The Club Station in Mason
5/9/2020	11:00 AM	VE Session	Lansing Fire Station #44
5/18/2020	7:00 PM	Lansing ARPSC Meeting	Lansing Fire Station #48
6/4/2020	7:00 PM	VE Session	Lansing Fire Station #44
6/6/2020	6:30 PM	CMARC Board Meeting	The Club Station in Mason
6/12/2020	7:00 PM	CMARC Meeting	The Club Station in Mason
6/22/2020	7:00 PM	Lansing ARPSC Meeting	Lansing Fire Station #48
6/26/2020	5:00 PM	Field Day Loading	The Club Station in Mason
6/27/2020	11:00 AM	VE Session	Rayner Park in Mason
6/27/2020	2:00 PM	CMARC Field Day	Rayner Park in Mason
6/28/2020	2:00 PM	Field Day Unloading	The Club Station in Mason