



VOLUME 74 ISSUE 7
July 2027

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Board	Ken Hook K0KWH
Board	Richard Teal KF0KBX

* In final year of 2-year term

+ One year officer position

All officers can be contacted at: boardmembers@ppraa.org

Monthly Ham Breakfast

Golden Corral 1970 Waynoka Road Saturday, 14 June 2023

Join us between 8:00-9:30 AM

All are warmly invited to come on down and join us!

PPRAA Board Meeting (July 7) at Perkins

3298 E. Platte Ave., Colorado Springs, CO. 80909

– There will be both an online meeting via Zoom and in the restaurant. The business meeting starts at 7 PM, but get your dinner and beverage of choice and check in any time after 6 PM for a social hour. Club members check your email for info or email [Officers](#) to receive the Zoom information.

PPRAA Megafest

- Saturday, 22 July 2023 0800 to 1300
- See Megafest tab above

2023 ARRL Rocky Mountain Division Convention

- August 12-13, 2023
- Saint Pius X High School
- 5301 Saint Josephs Dr NW
- Albuquerque, New Mexico
- More info [here.](#)

Denver Radio Club Ham Fest

- Sunday August 27, 2023 (0900-1300)
- Adams County Fairgrounds
- Brighton, Colorado
- More info [here.](#)

Alamogordo Hamfest

- Saturday September 2, 2023
- Otero County Fairgrounds, Alamogordo, NM
- Free admission
- More info [here.](#)

Albuquerque Duke City Hamfest and Convention

- ~~September 15-17, 2023~~ Cancelled for 2023
- More info [here.](#)

BARCfest

- Sunday, 8 October 2023
- 0900-1300
- Boulder County Fairgrounds, Longmont, CO
- More info [here.](#)

Announcing the ARRL Colorado section net beginning in 2023.

Fellow Colorado Section Amateur radio enthusiasts,

As section manager I desire to have a better connection to ARRL members and non-members in the Colorado section. I visit as many in person events as time allows and also make myself available for attending virtual meetings (i.e. Zoom). This "net" will hopefully be a place that Colorado hams can ask questions of ARRL leadership, request help, guidance, club support and technical support. This can also be a place where Colorado hams can ask why is the ARRL important and why should I join?

The net will meet on the second Monday of each month at 7:30 pm Mountain time. Our first net will be on January 9th 2023.

I've chosen an ARRL Affiliated Club/Repeater system to host this net each month. The Fun Machine WE0FUN was chosen as it is a Colorado based system that has dedicated links in Colorado with little "regular" traffic. WE0FUN provides paths into the net via analog RF, Echolink, DStar, YSF, NXDN, P25, DMR and M17.

See http://www.we0fun.com/?page_id=304 for analog repeaters and locations.

The digital reflectors are as follows;

Allstar - Node 28368

Echolink - *CANONCTY* 363976

DStar - XRF815B, XLX815B, DCS815B or REF815B

TGIF - DMR 815

Brandmeister DMR - 310815

YSF - US CO WE0FUN 53927

P25 - Talkgroup 10209

NXDN - Talkgroup 31081

M17 - 815B

I look forward to hearing you all.

Feel free to forward to other clubs as well.

John Bloodgood, KD0SFY

PIC, Colorado Section - ARRL



June 1, 2023

Pikes peak Radio Amateur
Association c/o DiCk K0hlhaas,
W5UDM P.o. BOX 16521
Colorado Springs, CO 80935

Dear Friends,

On behalf of the ARRL Foundation Officers and Board, I am pleased to announce the 2023 recipient of Pikes Peak ARC Memorial Scholarship in the amount of \$4000.

Brennan Long, K6gFL, of Arvada, Colorado has been selected for The Pikes Peak ARC Memorial Scholarship from an outstanding group of applicants. Scholarship recipients were recently notified of their awards, and we have already had many replies conveying their excitement and appreciation.

Scholarships through the ARRL Foundation would not be available without the support of thoughtful and generous sponsors such as you. Thank you for making The Pikes Peak ARC Memorial Scholarship possible, and for aiding a student Amateur Radio operator in his/her pursuit of their higher education. I am confident that these young people will be successful in their future careers, and in representing Amateur Radio as well.

Again, many thanks for your support with this award. If you have any questions, please contact ARRL Foundation Secretary Diane Middleton, W2DLM at ARRL-dmiddleton@arrl.org.

73,

David Norris, K5UZ

President ARRL Foundation

Hams start going to Dayton for the technology. They keep going for the people.

Dayton, Ohio becomes the center of the amateur radio universe every third weekend in May. That's when the Dayton Amateur Radio Association holds Hamvention, the largest gathering of radio amateurs in the world. This year, approximately 30,000 converged for the event.

Most people start going to Hamvention for the technology, and there was plenty of that this year. All the major manufacturers were there, including (in alphabetical order) Elecraft, Flex, Icom, Kenwood, MFJ, and Yaesu. There were some less well-known manufacturers there, too, including Alinco, HobbyPCB, QRPLabs, and QRPWorks. They were joined by a host of niche suppliers, who make and sell everything from antennas to Morse Code keys to batteries. And, of course, there's the flea market, where you can find all kinds of weird and wonderful electronic stuff.



People come for the forums, too. The theme for this year's Hamvention was Innovation! and many of the forums emphasized this aspect of amateur radio. This year's forum lineup included presentations on digital communications, software-defined radio, fast-scan TV, and Linux-based ham radio software.

People over technology

Technology was certainly the initial draw for me, but it's not why I keep returning. I didn't buy a single thing this year. What keeps me going back are the people. Every year, I meet old friends, hams who I've only met on the air, and make new friends.

Last year, for example, I had dinner on Saturday with a fellow with whom I'd had many CW contacts, but never met in person. In fact, because we were operating CW, I'd never even heard his voice. We hit it off so well, that we again met for dinner this year. Not only that, we expanded our circle to include several other hams who we've worked before.

Here's another example. On Friday, an old friend came up to the booth to say hello. As it turns out, he was recently elected to the board of directors of the Quarter Century Wireless Association (QCWA). About 15 years ago, I was a member of QCWA, but let my membership lapse when I became disenchanted with the organization.

One of the reasons for my departure was that they actively discouraged me from starting a chapter here in Southeast Michigan. Their reasoning, as I recall, is that there was already a chapter in Michigan, even though its activities were mostly on the west side of the state. That made no sense to me at all.

This didn't seem to make much sense to my friend--the newly-elected QCWA board member--so we plan to explore this further at a later date. Who knows? We may yet form a SE Michigan chapter of QCWA.

This is just a small sample of the people I met this year. I also got to talk to some podcasters and YouTubers, a couple of fellows who recognized me from reading my blog or listening to me on the ICQ Podcast, and hams out in the flea market who had some interesting stories about the stuff they had for sale. You never know who you'll run into, what stories they'll tell you, and what you'll learn from them.

It's meeting people that keep me returning to Hamvention. If you've never been to a Dayton Hamvention, I'd encourage you to go at least once. If you do, I'm going to guess that you'll go back, and it won't be for the technology, but for the people.

Dan Romanchik, KB6NU, is the author of the KB6NU amateur radio blog (KB6NU.Com), the "No Nonsense" amateur radio license study guides (<https://KB6NU.Com/study-guides/>), and often appears on the ICQPodcast (<https://icqpodcast.com>). When he's not at Hamvention, he teaches ham radio classes and operates CW on the HF bands.

On Jul 9, 2023, at 8:16 AM, W0XLD [<w0xld@w0xld.com>](mailto:w0xld@w0xld.com) wrote:

I finally got all the logs cleaned up and documentation scraped together for the field day submission, so here are some additional stats you can use for a field day summary if you want:

Main station contacts = 1081

Main station contact points = 3378

GOTA contacts = 46

GOTA contact points = 230

Other bonus points = 1490

Total contacts = 1127

Total points = 5098

And of course, you are welcome to use all pictures and media from <https://w0xld.com/2023-06-sfd/> . These include Leianna's video from KRDO, and the final version of the sections-contacted heat map.

Let me know if there's any other information you'd like me to aggregate from field day.

See you at the meetings this week! 73,

LD / W0XLD



PPRAA

Pikes Peak Radio Amateur Association

Below are the new licensees with callsigns from the May VE session for Secretary and Treasurer tracking for new membership certificate purposes. The full VE report will be submitted closer to our June board meeting.

All are new Technicians:

Jason Anderson – KFØMTT

Raymond Graham – KFØMQG

Jacob Holstun – KFØMRE

Here are the statistics from our latest VE sessions.

13 May, 2023 PPRAA VE Session - 10 Applicants and 10 Elements taken:

3 New Technicians

2 Upgrades to General

1 Upgrade to Amateur Extra

1 Unsuccessful Technician Applicant

1 Unsuccessful upgrade to General

2 Unsuccessful upgrades to Extra

10 June, 2023 PPRAA VE Session - 13 Applicants and 13 Elements taken:

9 New Technicians

1 Upgrade to General

2 Upgrades to Amateur Extra

1 Unsuccessful Technician Applicant

An interesting note at our June session we had 2 separate Father/Son pairs that passed their Technician; one pair were both adults and the other pair were adult and teen. We

also had a Son and Daughter that also successfully passed their Technician who had previously tested last year when their Father successfully upgraded to General. All this is possible thanks to our great group of Volunteer Examiners!

73

Jon Cashatt, KJØCFW

VE Team Leader

Pikes Peak Radio Amateur Association

Laurel VEC

Something for Zero Beat...

Tnx & 73,

Bob K0NR

Amateur Radio Fun in the Colorado Mountains

August 4 through 7, 2023

www.ham14er.org

Amateur Radio operators from around Colorado will be climbing **Colorado Summits On The Air (SOTA)** peaks and communicating with other radio amateurs across the state and around the world. Join in on the fun during the annual event by activating a summit or contacting (chasing) the mountaintop stations. This event is normally held the first full weekend in August. Again this year, we will add **two bonus days** to the Colorado 14er Event. The main two days remain **Saturday and Sunday (Aug 5 & 6)**, while the bonus days are **Friday Aug 4 and Monday Aug 7th**, for those SOTA enthusiasts that need more than two days of SOTA fun! Be aware that many mountaintop activators will hit the trail early with the goal of being off the summits by (1800 UTC) noon due to lightning safety concerns. The 14er event includes **Summits On the Air (SOTA)** peaks, which provide over 1700 summits to activate. (See the [WOC SOTA web page](#) or browse the [SOTA Atlas](#).) The Colorado 14er Event was started in 1991, about 19 years before the SOTA program was set up in Colorado. As SOTA grew in popularity, this event expanded from just the 14,000-foot mountains (14ers) to include all of the SOTA summits in the state. We still call it the Colorado 14er Event because, well, that's where it all started and the 14ers are the iconic summits in the state.

Important: The recommended 2m FM frequencies have been changed to **146.58**, 146.55, and 146.49 MHz, to align with the use of the **North America Adventure Frequency for SOTA (146.58)**. The National Simplex Calling Frequency (146.52) may be used as appropriate. There will be plenty of action on the other ham bands, for more information see the [operating frequencies page](#).

Resources:

[Colorado 14er Event webpage](#) – Everything to Know About The Colorado 14er Event

[Beginner Guide](#) – For the first-time activator

[Ham14er Groups.io](#) – Discussion Group for the event

[Colorado SOTA groups.io](#) – Colorado SOTA discussion group

Colorado 14er Event Task Force

info@ham14er.org



Isotron 20/15/10

Work the DX - The Bands are opening.

www.isotronantennas.com

Reducing Reception Noise

The last article described how to build a ferrite loop antenna. It has bi-directivity, so it can be used for locating sources of unwanted noise.

The ferrite rods have an interesting characteristic that makes it look like a much larger antenna. In free space it bends the electro-magnet lines into the ferrite rod. This enhances more signal into the rod than a metal antenna. This allows the ferrite antenna to receive signals at an acceptable level. It normally will not receive like the full size resonant antenna, but it is enough to take advantage of the other features.

The ferrite antenna needs to be resonated on the band you are using. Signal or noise will maximize at this point. It will have a bi-directional response. Also, a bi-directional null. This null reduces unwanted noise in two directions. In the opposite two directions it literally pulls in signal.

Now is where you can use your imagination. The antenna should be outdoors as high and in the clear as possible. Many transceivers have two separate antenna ports. An antenna switch will also work. The antenna is small and light, but it needs to be rotated at least 180 degrees. A small gear reduce motor is sufficient to handle the light load.

Depending how you build the antenna, it may need to be tuned to the frequency you are using.

When you switch from your main antenna to the ferrite, you may notice a drop in reception even at the peak point. This can be compensated for with your receiver pre-amps. External amps could be added also. However, in many cases you will hear the target station clearer.

In our noisy world, it is good to have an option to reduce the various interferences.

73,
Ralph WD0EJA

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mailto: wd0eja@isotronantennas.com

Current Antenna Prices

Model	Price	Shipping
160C	\$249.95	\$40.00
80	\$169.95	\$25.00
60	\$169.95	\$25.00
40	\$159.95	\$24.00
30	\$159.95	\$24.00
20	\$84.95	\$19.00
17 - 6	\$79.95	\$19.00 (Same cost for 1 or more.)
80/40	\$319.95	\$30.00
20/15/10	\$239.95	\$24.00
40/20	\$244.95	\$24.00
80/40, 20/15/10	\$549.95	\$30.00
160/80	\$414.95	\$40.00

NOTE: The multi-band units are the same as the individual units. The harness is supplied for single feed line connection.

AARRL Clean Signal Initiative on the horizon

By Dan Romanchik, KB6NU

In recent message to his Northwest Division membership, Mike Ritz, W7VO, described a new program that he's gotten the ARRL to take on—the Clean Signal Initiative. He writes:

“After a few months gathering support from the amateur community for the project, the ARRL Clean Signal Initiative (CSI) is finally getting off the ground. The Board's Programs and Services Committee approved the concept several months ago, and since then I have been canvassing some of the best known RF engineers in amateur radio to get their support and input. As a result, the team will be conducting our first Zoom call next week to lay out the next steps for the project. All I can say at this time is that there are some amateur radio “heavy hitters” behind this, and I believe will be a game changer for the ARRL.

For those that may be unaware of this project, here is a synopsis (or at least my vision):

1. The CSI gets the ARRL formally in the “technical standards” business. (Other technical organizations already do it: IEEE, UL, ASTM, and SAE, and others.) The ARRL currently tests new products to informal standards, with no real hard benchmarks for manufacturers to meet, other than the minimal standards outlined in FCC Part 97.307.
2. Creates and incorporates documented “best practice” standards and testing methodologies to ensure commercial amateur radio transmitters and amplifiers meet not only minimum FCC requirements for signal cleanliness, but push the envelope.
3. These new standards can be “home grown”, or passed through the IEEE, but I think it's important they be also branded as “ARRL Technical Standards.”
4. Test new commercial transceivers and amplifiers against these standards.
5. Certify the transmitters and amplifiers that pass the standards: “CSI certified by the ARRL.”
6. Work with manufacturers to ensure compliance of those that don't. (Market pressure will drive this.)
7. Market the program to the amateurs through QST.
8. Work with manufacturers and social media experts to create training materials to teach hams how to set up their equipment to ensure the cleanest transmitted signals. (This education part is key!)”

Rob Sherwood, NC0B, of Sherwood Engineering, who is most well-known for his [ranking of receiver performance](http://www.sherweng.com/table.html) (<http://www.sherweng.com/table.html>), is part of this effort. You can see a video of a talk that he gave recently to the Sutton & Cheam Radio Society by going to <https://youtu.be/IioApKRecrI>**Error! Hyperlink reference not valid.**

Based on my knowledge of how IEEE standards committees work, I stressed that the initiative should make every effort to get as many stakeholders—including manufacturers and users—involved as possible. Involving so many people may be cumbersome at times, but standards require consensus for them to be effective, and the only way to do that is to get everyone involved. I'd suggest that if you feel that you have something to contribute that you contact Mike directly. His email address is w7vo@arrl.org**Error! Hyperlink reference not valid.**

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Apply for a grant from the ARRL or ARDC

By Dan Romanchik, KB6NU

In our division director's September missive to the membership yesterday was this nugget:

ARRL IS CURRENTLY OFFERING GRANTS to fund amateur radio projects. This program, sponsored by the ARRL Foundation, is specifically for organizations and aimed primarily for education, licensing and support of ham activities. A special focus is on youth-related plans. We are now entering the last phase of this year's grant cycle, so the opportunity exists for your club or organization to submit a grant request. You can find the full details on the grant page of the ARRL web pages, check: <http://www.arrl.org/amateur-radio-grants>.

The ARRL accepts grant requests three times a year:

- February 1 – February 28
- June 1 – June 30
- October 1 – October 31

Since this is September 1, you have two months to get your request in. As I've written before, our club was awarded \$1,500 to help us put up a tower for a club station at the Ann Arbor Hands-On Museum. The money is available. Go get it!

Get money from ARDC, too!

You can also get a grant for amateur radio projects from Amateur Radio Digital Communications (ARDC), the outfit I'm currently working for. ARDC grants money for projects that fall into one of the following three categories:

- Support and growth of amateur radio,

- Education, and
- Technical innovation.

ARDC has, for example, awarded grants to:

- An amateur radio club in Wisconsin (<https://www.ampr.org/grants-old/grant-chippewa-valley-arc-emergency-trailer-and-equipment/>) for upgrading their repeater systems and building an emergency communications trailer that they will also use to promote amateur radio in their area.
- A California high school (<https://www.ampr.org/grant-incorporating-constructivism-and-the-maker-mentality-at-california-high-school/>) whose computer science teacher will use the funds to purchase microcontrollers and transform his classroom into a maker space. With this equipment and facility, students will learn computer science by building their own projects.
- The M17 Project (<https://www.ampr.org/grant-m17-open-protocol/>), whose goal is to develop a new, open-source digital radio protocol by hams, for hams, and that is easy to understand and build on.

To be eligible for an ARDC grant, an organization must be a 501(c)(3) public charity or be sponsored by a 501(c)(3) public charity. Other eligible organizations include government entities, schools or universities, and international charities or nonprofits.

For more information on ARDC and how to apply for an ARDC grant, go to

<https://www.ampr.org/apply> **Error! Hyperlink reference not valid.**

=====

Dan Romanchik, KB6NU, is the author of the KB6NU amateur radio blog (KB6NU.Com), the "No Nonsense" amateur radio license study guides (<https://KB6NU.Com/study-guides/>), and often appears on the ICQPodcast (<https://icqpodcast.com>). He recently joined ARDC as their Content Manager. Among his responsibilities is spreading the word about all the cool things ARDC is doing for amateur radio.

EDITORS:

You can find an image of the ARRL Foundation logo at <https://www.kb6nu.com/wp-content/uploads/2019/07/arrl-foundation-425x174.png> **Error! Hyperlink reference not valid.**

An image of the ARDC logo is at <https://www.ampr.org/wp-content/uploads/square-512.png>

Subject: [V7ARC] 2M Cubic Antenna

Date: Oct 8, 2022 8:24 PM

Good Evening, everyone.

As recommended by Aaron, KCØLGX....

Check out Fuzz the Pi Guy on YouTube. He's got lots of antenna videos.

Doug





What is it?

The top Tuning section for the ISOTRON 160C.

This article will also appear on our web site.

CHANGING VOLTAGE ON A REGULATED SUPPLY

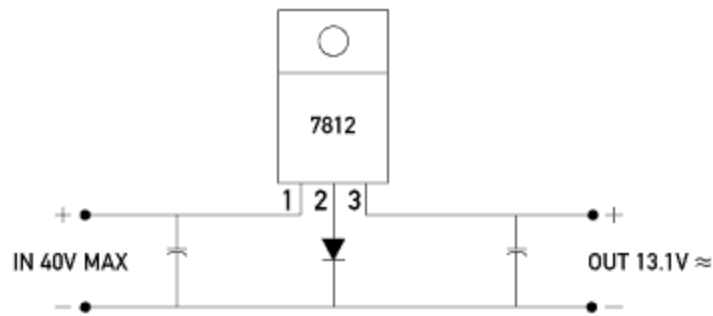
The last two articles were on a fixed voltage regulator and a fixed current regulator. However, there are times when a different voltage is needed. There are a couple of ways this can be done. This article will discuss one of the two ways.

For example, you want to use the regulator as a trickle charger for a 12 volt battery. Lawn tractors, generators and even cars and trucks that sit for a long time should have a charge on the batteries to keep it working year around.

Select a LM7812. You can use a wall wart that can handle at least .5 amps. If the wall wart claims 12 volts, it will probably be around 18 volts measured. Connect it to the LM7812 as in the schematic. Your output with lead #2 grounded will give you a slightly lower reading than 12 volt. This is not enough for trickle charging a 12 volt battery. Therefore, how can you raise it to 13.1 volts that is needed?

Simple, release lead #2 from ground. Then add a diode with the cathode to ground and anode to #2 lead. The forward direction of the diode will exhibit a resistance. This will increase the output voltage at lead #3. It will still be well regulated.

Depending on the diode used, will determine the output voltage. If it is not high enough, a second diode can be added in series with the first one.



(Input voltage should be 35 volts)

A wall wart power supply can be picked for just a few dollars surplus. The regulator can be bought for as low as 50 cents. 2 filter capacitors will vary in cost, but will most likely be under \$2.00 each.

The circuit can be built on a small board. You can use a fancy project box to house it, or a large shrink tube.

You can build the whole charger in less than an hour. It will save the batteries that sit unused throughout the winter to be ready for use in the spring.

73,
Ralph WD0EHA

02-16

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EchoLink allows licensed Amateur Radio stations to connect to one another over the Internet. You can use EchoLink to connect your station (or your computer) over the Internet to other amateurs using the same software, and carry on a voice QSO. This greatly enhances the range and utility of mobile and portable VHF/UHF-FM stations, and also allows computer-equipped hams to access distant repeaters directly.

You can access EchoLink either with a radio or a computer. If you are in range of an FM repeater or simplex station equipped with EchoLink, you can use DTMF commands from your radio to access the EchoLink network. If you are a licensed amateur with an Internet-connected PC, you can access EchoLink stations directly from your PC.
How do I get started using it?

First, download the software from this Web site. Then, install the software on your PC, be sure you have a good Internet connection, and start it up to register your copy of the software. The final step is to provide proof of license so your callsign can be added to the system; see Validation for details. Then, you're ready to go.

Is EchoLink available for any platform other than Windows?

EchoLink is designed specifically to run under Microsoft Windows. Currently, there are no plans to offer versions of EchoLink for other platforms (except as noted below).

Is EchoLink available for smartphones and tables, such as an iPhone or an Android phone?

Yes! An edition of EchoLink for the Apple iPhone and iPad is available, free of charge, at the App Store. For Android devices, please install EchoLink from Google Play.

73

KFOOTE

\$35 Application Fee

The majority of the FCC's revised Part 97 rules (adopted in December 2020) establishing new application fees become effective on April 19. The FCC announced on March 19 that the amateur radio application fees, including those associated with Form 605 filings, would not become effective

until the "requisite notice has been provided to Congress, the FCC's information technology systems and internal procedures have been updated, and the Commission publishes notice(s) in the *Federal Register* announcing the effective date of such rules."

The \$35 fee, when it becomes effective, would apply to new, modification (upgrade and sequential call sign change), renewal, and vanity call sign applications, as well as applications for a special temporary authority (STA) or a rule waiver. All fees will be per application. Administrative updates, such as a change of mailing, email address, or name, are exempt.

It is expected that such fees will not become effective before summer 2021. The FCC has stated that amateurs will have advance warning of the actual effective date, because it will publish such date in the *Federal Register*.

ARRL Volunteer Examiner Coordinator ([VEC](#)) Manager Maria Somma, AB1FM, said VECs and Volunteer Examiner (VE) teams will not have to collect the \$35 fee at exam sessions. Once the FCC application fee takes effect, new and upgrade applicants will pay the \$15 exam session fee to the VE team as usual, and pay the \$35 application fee directly to the FCC via the [Fee Filer System](#) or [License Manager System](#). Somma said this information was provided in a [VE Newsletter](#) distributed this past week. "Further news and instructions will follow when we have them," she said



PPRAA 2 Meter Net Script

Version date: 2021-10-17

At 1955 hours (7:55 pm), announce:

The Pikes Peak Radio Amateur Association 2 meter net will start in five minutes, at twenty hundred hours. This is [your call sign].

Begin the net at 2000 hours (8:00 pm):

Calling all radio amateurs. This is the Pikes Peak Radio Amateur Association Thursday evening 2 meter net. Tonight's net control station is [your call sign] and my name is [your first name].

The PPRAA 2 meter net meets each Thursday evening at 20:00 hours [20 hundred hours] local time on the CMRG repeater, 147.345 MHz, positive offset, CTCSS tone of 107.2 Hz. In case of repeater problems or failure, the net will move to the 146.970 PPFMA repeater using CTCSS tone of 100 Hz, negative offset.

All amateurs are warmly invited to check-in and participate in this net. This is a directed net, so please go through Net Control to contact another station.

The purpose of this net is to announce PPRAA club business, upcoming events and activities, to discuss technical topics, to disseminate general information of interest to the amateur radio community and to practice formal net procedures. Please listen closely and follow the net control station's instructions.

When checking into the net, please give your call sign, your name, your location and if you have traffic for the net. Please speak slowly and clearly, Use correct ITU phonetics. It helps to repeat your call sign at the end of your check-in. Please be patient as net check-ins usually have a few doubles.

Take check-ins:

PPRAA Club Officers and Board Members please check-in now. [Acknowledge all check-ins.]

Portable stations and mobiles please check-in now. [Acknowledge all check-ins.]

Now, stations with suffixes starting with Alpha through Foxtrot. [Acknowledge all check-ins.]

Stations with suffixes starting with Golf through Lima. [Acknowledge all check-ins.]

Stations with suffixes starting with Mike through Romeo. [Acknowledge all check-ins.]

Stations with suffixes starting with Sierra through Uniform. [Acknowledge all check-ins.]

Stations with suffixes starting with Victor through Zulu. [Acknowledge all check-ins.]

Now all stations, with suffixes starting with Alpha through Zulu. **[Acknowledge all check-ins.]**

This is the PPRAA Thursday evening two-meter net, with **[your call sign]** as net control. Now we'll go to stations with traffic. **[Call on stations with traffic and lead discussion.]**

Are there any additional stations wishing to check in? Please call now. **[Acknowledge all check-ins.]**

Round-robin discussion:

This part of the net is for round-robin discussion. We will take comments from each station in turn, and we'd like to hear: have you been doing anything on the air, or working on any ham projects? Or perhaps you've heard some amateur radio news, or watched a YouTube video, you'd like to share with the net? Tell us what's new in your ham shack. **[Call all checked-in stations in turn.]**

[At least once every ten minutes:] This is the PPRAA Thursday evening two-meter net, with **[your call sign]** as net control.

Does anyone have any questions, comments, or requests for the net? Please call now. **[Direct discussion.]**

Wrap-up:

Last call for late check-ins, please call now. **[Acknowledge all check-ins.]**

You are invited to attend the PPRAA club meetings on the second Wednesday of each month. Social hour begins at 1800 (6:00 pm); the meeting begins at 1900 (7:00) pm. You may attend online on a Zoom meeting, and the online invite is emailed out to all members, or you may now attend in person, at Billy's Old World Pizza, 308 South 8th Street in Colorado Springs. That's on the southwest corner of US-24 and 8th Street, and we look forward to seeing you there.

In addition, the PPRAA has an Amateur Radio Operator's breakfast meeting on the first Saturday of each month, at a location posted on the PPRAA.org website.

PPRAA VE exams are held on the second Saturday of each month. Location is the Pikes Peak Regional Office of Emergency Management building located at 3755 Mark Dabbling Blvd. Testing is at 1000 hours and the tests are currently free to take.

Our net control operator for next week will be **[call sign of following week's net control]**.

The Pikes Peak Radio Amateur Association wishes to thank all the stations that joined us this evening, and the CMRG for the use of their 147.345 and 448.100 repeaters. I hope to hear you all next Thursday evening at 2000 hours (8:00 pm) for our next PPRAA two-meter net.

This is **[your call sign]** closing the net at **[time]** with a total of **[number]** check-ins. We are now returning the repeater to regular amateur use. 73 everyone! **[Your call sign]**, clear.



Figure: Steve/WGØAT operates HF phone from a SOTA summit in Colorado.

PIKES PEAK RADIO AMATEUR ASSOCIATION **AFØS**



Radio _____ Confirming QSO _____, _____ UTC
 Mode _____ Frequency _____ MHz Your sigs: _____
 Transceiver: _____ Antenna: _____
 Operator: _____ Grid: DM78tt
 Mailing address: PO Box 16521, Colorado Springs, CO 80935
 Station Location: Ellicott, CO PSE QSL TNX

Email: station@ppraa.org

Major Events

PPRAA Awards Program

I have been the Awards/Recognition committee chair for almost 20 years. Awards have been issued when applied for. I just reviewed my logs and found I qualified for the VUCC award with 116 grid squares worked on 6 meters.

If folks will let me know what they have qualified for and fill out an excel log data sheet I will print out a very nice certificate.

Certificates can be printed for regular achievements or a goal you set for yourself.

Mike WV7T
Wv7t@aol.com

I am cutting back on my ham radio activities as other matters have arisen I must concentrate on.

These I will be available to provide:

Technician and General class license tutoring

Hands on skills

Ham equipment and accessories

Club asset manager

Award-Recognition program chairperson (We do have an awards program in PPRAA)

Lots of advice

I can be contacted at 719-229-8610 or wv7t@aol.com

Mike WV7T



This was 2001 when PPRAA was 50 year ARRL affiliation.

This year 2021 is 70 year PPRAA affiliation.

Nice job folks.

JIM HAYNIE
VLSBP, PRESIDENT
JOEL M. HARRISON
W5DN, FIRST VICE PRESIDENT
KAY C. CRAIGIE
W7BP, VICE PRESIDENT
JOHN C. KANODE
N4MM, VICE PRESIDENT
RODNEY J. STAFFORD
W4ROD, VICE PRESIDENT
INTERNATIONAL AFFAIRS
JAMES E. McCOBB
W1LLU, TREASURER
DAVID SUMNER
K1ZZ, EXECUTIVE VICE PRESIDENT
SECRETARY
BARRY J. SHELLEY
N1VXY, CHIEF FINANCIAL OFFICER

QST
OFFICIAL JOURNAL

July 25, 2001

Pikes Peak Radio Amateur Assoc
1420 North Gate Rd
Colorado Springs CO 80921-3025

Dear Sidney: *W 7/28/01*

Congratulations on 50 years of affiliation with the ARRL! We have prepared a special certificate to commemorate this achievement. The certificate will be mailed to you directly, or sent to your Division Director. If a certificate is not enclosed with this letter, your Division Director, or another League Official, will present it to your club. The League Official selected for presenting the certificate to your club will contact your Club President or ARRL Liaison to make arrangements.

The League's affiliated clubs have been the backbone of organized Amateur Radio for more than 80 years. Amateur Radio classes, TVI committees, equipment exchange and camaraderie are just a few benefits offered to club members. Your club, the League, and Amateur Radio as a whole have grown during our long association. Who knows what's in the future? We do know, however, that clubs like yours will continue to meet and shape the challenges and opportunities the Amateur Radio Service encounters daily.

We hope the next 50 years of affiliation will be as enjoyable and beneficial as the first 50!

73,

Margie Bourgoin, KB1DCO
Margie Bourgoin, KB1DCO
Club & Educational Correspondent

AMERICAN RADIO RELAY LEAGUE

ADMINISTRATIVE HEADQUARTERS • 225 MAIN STREET • NEWINGTON, CONNECTICUT, USA 06111-1494
TELEPHONE 860-594-0200 • FAX 860-594-0259 • INTERNET: hq@arri.org • WWW: <http://www.arri.org/>

2021 is the 70th year of PPRAA ARRL affiliation.
That is a long time!

You shop. Amazon gives.

I'm somewhat dismayed that there are only 18 households contributing via their King Soopers accounts. Seems that many people had obtained the KS gift cards several years back, before they changed it to simply being a selection on their account.

Perhaps we should try to make it clearer just how it's done.

- 1) Go to kingsoopers.com.
- 2) Log in to your account.
- 3) Scroll down to, and select Community Rewards.
- 4) Search for and Add 'Pikes Peak Radio Amateur Association Inc.' (Organization Number MK867) as your target.

That's all it takes.

It shows (me) that I contributed \$18.85 last quarter. So, I guess mine made up slightly more than 10% of the total.

(Of course, maybe some PPRAA members could be directing contributions to another organization.)

Dennis

Amateur Radio Emergency Links Info

Amateur Radio and Emergency Communications

<https://alertfind.com/amateur-radio-and-emergency-communications/>

Disaster Preparedness on a Budget

<https://couponfollow.com/research/disaster-preparedness-on-a-budget>

From the annals of PPRAA history

February 1984:

The February meeting will be held at a new location: Giuseppe's, at 7:30 pm. The Palmer House wanted to charge \$25 per meeting and wants the club to buy the coffee from the motel. The board decided to establish a hamfest committee to look into future possibilities for a larger hamfest starting in 1985. President Joe Quintana NØENM had to resign as president, and the club is looking for a new vice president, as Al Vrooman NØCMW fills the missing post. Bill KQØH was elected to fill Charlie Biggs board position vacated last month. The club will buy instructional video tapes for ham radio. The repeater committee has decided that a repeater would not be good due to the costs and a desire not to fragment the club. The Rocky Mountain Division ARRL Hamvention and Conference will be coming to Denver May 25 to May 27

March 1984:

March meeting was held at the Guiseppe's Restaurant in the Baggage Room. Fifty-five members present at the February meeting. A short article on building a "passive" repeater on the front page. The Aurora Hamfest is coming up on March 18. The swapfest will be at the International Polka Palace on Busch St and 21st this year. Doug WBØMHP solves an RFI case, determining the radio was within FCC specs. Education Committee purchased ham radio tapes last month which will be used in the classes at North Jr. Pikes Peak Radio Amateur Association History Records 9 High School. Mike KØTER elected as VP to fill the vacancy from last month. Another board member resigns due to not enough hours in a day. NØDV Dave vacates his position this month. The club is short of committee chairmen, and is in need of presentations again. PPRAA supporting the Walk for Mankind on April 14. CCARC met on March 24 at Show Biz Pizza, hosted by the PPRAA.

April 1984:

Sixty members came to the March meeting. A PPFMA representative came to the meeting to tell all about their repeaters. PPFMA dues were \$20. Leo WØGOW volunteers to pick up the interference committee. Swapfest prizes are a color TV, a Bearcat 210XL, and \$100 cash. Bruce Petrarca KXØE, ARES EC, is accepting applications for El Paso/Teller County ARES. Doc WØMCT elected to fill the vacancy left by NØDV. Bill KQØJ, down from Denver, and our Section Manager, moderated a discussion on ARES for the program. Also down were the SEC Bill Merit and Darla Richardson, section ACC. PPRAA is the only Colorado Special Services Club. The club will sell certain items from its inventory. ARES nets are

now on the 37/97 repeater on Wednesdays at 7 pm. See Jake NØCYR for membership forms.

May 1984

Jake NØCYR reports the 146.97 is now used for the ARES nets on Wednesdays at 7:00. The April meeting had 46 members and guests. Herb Moore of the NWS presented the program on weather patterns in the area. Rosie WAØMNL and Oak KØROL will run a club hospitality booth at the convention coming up. The August 12 picnic is set for the Black Forest pavilion. KØTER Mike will make a list of club equipment and determine what to do with the property. The Field Day will be at the Rampart Range Road with four stations. Jake NØCYR will cook breakfast. Mike KØTER proposed the club get a small trailer for club functions. The swapfest winners were James Putnam of COS (19- in color TV), Charlie Biggs KCØTI (the scanner), and Art KCØVL of Nathrop, CO (the \$100 cash award). Convention this month on May 25 through May 27.

June 1984

Apparently there was a special newsletter for the convention. (Anyone have a copy of that?) Thirty-nine members at Giuseppe's for the May meeting. The club approved a motion to spend \$800 to buy a used 15-foot trailer for club functions, and \$200 for repairs to get it in good shape. A committee was formed to oversee this. Gerry Johnson NØCWZ gave a program on balanced modulators. Next month's program will be Greg Utterback NBØU talking about VHF. Some discussion about lowering club dues. Club dues are \$12 regular and \$15 family. Jim Owens KR7J is moving to Rhode Island. A BASIC program for printing out QSL cards is published in this issue.

July 1984:

The club decides to try All the King's Men Restaurant for Saturday morning breakfasts, as the Kings Country Kitchen is closing. The new location is on Union across from East Jr. High. The club receives a certificate of appreciation from the March of Dimes for the help in the public service event. Another weather watching training coming up. The title is received for the club trailer. Greg NBØU gives a presentation on VHF/UHF propagation. Pete LaFosse NØLA becomes a new member. KL7IPV prints a BASIC program for calculating antenna dimensions. There is a list of club property to sell to the highest bidders. Send bids to the club mailing address.

Parker Radio Association

PPRAA Team,

Be sure to join us for our weekly nets Monday and Tuesday evenings!

First, Monday, at 8:30pm, on D-Star XRF223B, the PRA holds its D-Star net. There is plenty of conversations from everything digital to the latest projects and devices... from DStar / DMR / Fusion / Brandmeister / Hotspots, and even CW. This can be accessed via your local hotspot. Also, many have linked via the WOCDs 2M repeater as well. Considering our KOPRA repeater is being relocated, using the WOCDs 2M side would be best (please follow common/courteous practice when linking).

Second, at 8:00pm on Tuesday, is the PRA weekly analog net on the WOCFI 448.675 – (100Hz) repeater. This is a great way to catch up on the happenings of the PRA and is a great environment to ask any question related to the hobby or to give yourself some bragging rights on a recent license, upgrade, or new piece of equipment.

We'll see you on the air!

73, KØPRA Your Friends at the Parker Radio Association

www.facebook.com/parkerradioassociation parkerradio.org

[@ParkerCORadio](#)

ARRL Outgoing QSL Bureaus

www.arrl.org/outgoing-qsl-service

ARRL affiliated-club stations may use the service when submitting club QSLs for its members in bulk ("pooling" their members cards together in one package) by indicating the club name inside the package. Club secretaries should check club affiliation on the ARRL web site to ensure that their affiliation is current. In a "pooled" package, each club member using this service **must also be an ARRL member**. Cards should be sorted "en masse" by prefix and a proof of membership should be enclosed for each ARRL member. QSLs for unaffiliated club calls may also be sent via the outgoing bureau to foreign destinations if the trustee of the club call is a member in good standing. The trustee's proof of membership must be included with the club call-QSLs.

PPRAA VE EXAMS

(MONTHLY)

PPRAA VE session has relocated and will be held at 10:00 am on the second Saturday of the month at Pikes Peak Regional Office of Emergency Management
3755 Mark Dabbling Blvd, Colorado Springs, CO 80907, USA

Organizer: ve@ppraa.org

TESTING IS FREE. Applicants will need the following items at the session:

1. A valid **PHOTO ID**, driver's license preferred (if you do not have a valid photo ID, please call for alternative identification requirements).
2. Your **FRN NUMBER** (Please obtain in advance of the session).
3. A copy of your **amateur radio license** (if any).
4. The **ORIGINAL** of any relevant **CSCEs** you have **AND a PHOTOCOPY** for the VE Team to keep.

PPRAA VE Team policy, as with many VE Teams, is to not allow same day retests on failed exams. Anyone passing their Technician Class examination at a PPRAA test session will receive a free year's membership to the Pikes Peak Radio Amateur Association.

Jim Bishop kd0kql@hotmail.com, 719 332-5283, 000PPRAA VE Contact



MARC VE EXAMS

(January, March, May, July, September, November)

The Mountain Amateur Radio Club (MARC) VE Team conducts VE exam sessions in Woodland Park every odd month at 10 am on the first Saturday in the Community Meeting Room of the Woodland Park Library, 218 East Midland Avenue. The MARC VE Team is affiliated with the ARRL/VEC and examinations for all classes of license will be offered.

Full information, including driving directions to the Woodland Park Library, is available under “VE Sessions” on the MARC website at <http://www.nx0g.org/ve.html> or contact Wes Wilson (KØHBZ) at k0hbx@arrl.net or call (719) 687-8758.

If attending, please BE SURE to bring the following items to the session:

A valid PHOTO ID, driver's license preferred (if you do not have a valid photo ID, please call for alternative identification requirements).

- 1. Your FRN NUMBER** (now required – this includes children Please obtain in advance of the session).
- 2. Your ORIGINAL amateur radio license** (if any) **AND a PHOTOCOPY** for the VE Team to keep.
- 3. The ORIGINAL of any relevant CSCEs** you have **AND a PHOTOCOPY** for the VE Team to keep.
- 4. Cash, Check or Money Order for \$15** (standard ARRL VE Fee). Checks and money orders should be made out to MARC and covers all the different exams you wish to take at the VE session.

MARC VE Team policy, as with many VE Teams, is to not allow same day retests on failed exams. For already licensed hams, MARC members should be monitoring the MARC repeater system 146.820- or 448.650- (both 107.2 Hz) if you need help with talk-in. 73 Dean Buckhouse

more about your particular radio.

Follow us on www.facebook.com/KE7XBOOKS to keep up-to-date on book news and to be notified of book discounts at www.lulu.com.

One instructor for new and advanced ham classes has said, "This book is exactly what is needed. I've seen some other books targeting the new hams that are less than satisfying both technically and in content but this one is right on the mark and covers so much information that I so often get asked about, during and after teaching classes."

Here are more details on the content:

- With nearly 110 years of ham radio experience between them, the authors are still excited about the challenges this wonderful hobby offers. *The Successful Ham Radio Operator's Handbook* will guide you when exploring some of these.
- Its goal is to help new operators and returning old-timers learn about the breadth of exciting ham radio activities and challenges available today.
- It answers the question "Why is ham radio relevant in the Internet age?"
- It covers a wide range of topics, helping the reader to understand the excitement of different facets of ham radio and to choose a challenging and exciting activity to pursue.
- It helps the reader better understand how the radio works. Many hams only use a small fraction of the features of their radio. For example, if you understand how a noise blanker or a roofing filter or the AGC works, you will be able to more easily use these, and other, features of your radio to your benefit.
- It provides exercises designed to apply the knowledge to cement your understanding of how your radio works without being radio-specific. It is good for all makes and models.
- It helps the reader get enough background to understand much of the jargon hams who pursue special activities, such as the various digital modes, VHF contesting and moon bounce. It quickly takes the novice reader to higher level of understanding and provides URLs and websites that help the reader go deeper into new interests.
- Antennas remain a key area where all hams can still successfully experiment and create a key part of their station. This book provides information to help new hams get started cutting their own verticals and dipoles. It explains why some popular multiband antennas may have compromises that impact performance.
- It gives practical guidelines about choosing transmission lines and building and using baluns and chokes.
- Digital modes such as RTTY, PSK and the new WSTJ modes are explained. The computer-to-radio connections needed for these modes are discussed and illustrated.
- Many hams are motivated by public service and emergency preparedness. This book describes typical local emergency organizations and national networks.
- Hams who like to operate while traveling will find practical information on reciprocal international agreements and how to get permission to operate legally.

Online Practice Test Sites



Study for your Amateur Radio License exam:

[Technician \(2018-2022\)](#)

[General \(2019-2023\)](#)

[Amateur Extra \(2019-2020\)](#)

[Other...](#)

HamExam.org Amateur Radio Practice Exams

Log in using **Error! Hyperlink reference not valid.** or click [register](#) to create an account. If this is your first visit to the site, please read my brief [introduction](#).

QRZ.COM <https://www.qrz.com/hamtest/>

Eham <https://www.eham.net/exams/>

AA9PW.COM

Membership Application
Pikes Peak Radio Amateur Association, Inc.
P.O. Box 16521, Colorado Springs, Colorado 80935

Date_____ ☐ New Membership ☐ Renewal

Name_____ Nickname_____

Email address_____ Address_____

Telephone_____

City_____ State_____ Zip _____

Call Sign_____ License Class_____

Are you an ARRL Member? " Yes " No

Additional family members residing at same address

Name_____ Call_____ Class_____ ARRL: "Y "N

Name_____ Call_____ Class_____ ARRL: "Y "N

Name_____ Call_____ Class_____ ARRL: "Y "N "

" Full Membership \$15/yr

" Family Membership \$18/yr

" Full Membership - over age 65 \$10/yr " Family Membership - all over 65 \$12/yr

" Free - VE Signature required _____

Mail to: PO Box 16521, Colorado Springs, CO 80935, with check or money order or Scan and email to treasurer@ppraa.org, and pay with Paypal on www.ppra.org or Deliver to PPRAA Treasurer in person