



VOLUME 74 ISSUE 3  
March 2023

## PPRAA Club Officers

<b>President</b>	<b>Kyle Damon KD0TRD *</b>
<b>Vice President</b>	<b>Derek Brown KØATV *</b>
<b>Secretary</b>	<b>LD Steiner W0XLD *</b>
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<b>Board</b>	<b>Craig Walker KEØRGP</b>
<b>Board</b>	<b>Ken Hook K0KWH</b>
<b>Board</b>	<b>Michael Walter KEØTWK</b>
<b>Board</b>	<b>John Bloodgood KD0SFY</b>

\* In final year of 2-year term

+ One year officer position

All officers can be contacted at: [boardmembers@ppraa.org](mailto:boardmembers@ppraa.org)

## Monthly Ham Breakfast

**Western Omelette, 16 S. Walnut Street  
Saturday, 1 April 2023**

### **PPRAA Board Meeting (April 10) 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.

### **Postponed to 2025: 2020 ARRL Rocky Mountain Division Convention – Hamcon Colorado 2020**

– More info [here.](#)

### **LARC Fest**

- Saturday, April 1, 2023 (0800-1300)
- Boulder County Fairgrounds
- Longmont, Colorado
- More info [here.](#)

### **Field Day**

- Saturday, 24 June 2023 1200 to Sunday, 25 June 2023 1200
- See Field Day tab above

### **Denver Radio Club Ham Fest**

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

### **Albuquerque Duke City Hamfest and Convention**

- September 15-17, 2023
- 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](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.

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Feel free to forward to other clubs as well.

John Bloodgood, KD0SFY  
PIC, Colorado Section - ARRL

Since we covered a lot of topics and have a lot to announce at the general membership meeting, I have typed up my notes early this month and submit the board meeting minutes as follows. I will send an update if there is additional business to capture at the general membership meeting. Please send any feedback or questions to me individually. Thanks!

LD Steiner / W0XLD

PPRAA Secretary

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### **PPRAA Board Meeting, February 2023**

**Date/Time:** 2023-02-06 1830 (6:30 PM) local

**Location:** IHOP, 3090 N Chestnut St, Colorado Springs CO 80907

**Attendees:** Kyle/KD0TRD, Derek/K0ATV, Dick/W5UDM, LD/W0XLD, Ken/K0KWH, David/AD0QD, Jon/KJ0CFW, Anthony/KE0LQK, Dave/N0DMP, Doug/N7LEM

### **Agenda:**

- Silent keys
  - None reported
- Secretary report: LD/W0XLD
  - Volunteer list
    - Winter field day
      - Ken/K0KWH
      - Derek/K0ATV
      - LD/W0XLD
      - Kyle/KD0TRD
      - Jim/KN4UDV
      - Cory/WD0JKZ
      - Richard/AC0HW
      - David/AD0QD
      - Anthony/KE0LQK
      - David/KF0JXD
      - Jonathan/KF0JXU
      - Dick/W5UDM
      - Dave/N0DMP
      - Rick/KE0GVU
      - Richard/KF0KTU
      - Ben/AB2SG
      - Tom/KF0FOF
      - Craig/KE0RGP
      - Jon/KJ0CFW
      - Eric/K9EAJ
      - Jim/KD0KQL
      - Ryan/KF0???

- Jen/KF0???
  - For being an ambassador to the hobby, Doug/N7LEM
- Club membership: 241 voting/licensed members, 5 unlicensed, 138 ARRL members.
- January membership meeting attendance: 43 live, 12 on Zoom.
- Doug moved to accept report; Ken seconded
- Treasurer report: Dick/W5UDM
  - Expenses in his report included toilet rental for winter field day, fox hunt prizes, CCARC dues.
  - LD moved to accept report; Dave seconded.
- VE Team Report: Jon/KJ0CFW
  - Jon's report is as he documented in his email; next VE session is this Saturday.
- Webmaster report: Doug/N7LEM
  - Doug will take details for winter field day off the website.
  - Colorado QSO Party: 12 of 15 category plaques have been paid for by sponsors. To cover the last 3 plaques will cost \$135. Derek moved to fund 3 plaques for this amount; Dave seconded; vote passed.
  - Doug asked if the board wanted to support a PPRAA table at the Feb. 19 Hamfest; consensus was yes so Doug could advertise the change in venue for Megafest.
- Zero Beat report: Jerre/WA0BCM not present
- PPARES report: John/KD0SFY not present
- VP report: Derek/K0ATV
  - Megafest: Lewis Palmer High School is not available due to severe staffing shortage.
    - Derek worked with Chris/??CNX, president of Pueblo Amateur Radio Club (PARC), to identify venues in Pueblo that might be willing to host Megafest. They would like to set up Megafest as a Southern Colorado event with equal branding for PARC alongside PPRAA. PARC has already voted to approve this joint venture and share some of the expense.
    - Derek and Chris decided on Colorado State University Pueblo as the venue, which has a half-ballroom available and an outdoor space, with a food court nearby.
    - Cost will be \$1500 which PARC and PPRAA will share, as well as income from tables and entrance fees. CSU Pueblo needs \$480 deposit to lock in the reservation for Saturday, July 22.
    - Rental includes two rooms for VE session and scout radio badge training session.
    - Derek has reached out to David Casler to give a keynote address; will update.

- The next-lowest venue for rental fees was the Expo Center, in a good location but they wanted extra fees for a lot of amenities like power drops. CSU Pueblo's fees included power and public address system.
  - PARC can provide access to their 146.79 MHz repeater for talk-in.
  - David volunteered to be point-of-contact for scouts in southern Colorado area. LD will give David Lance G.'s contact information, to let the Monument troop know about the change.
  - Brue's may be a good venue for a Friday-night mixer prior to the megafest, for PARC and PPRAA teams to get to know each other. They have a meeting room that could accommodate such a mixer.
  - PARC will get a table for their exhibit as part of the hosting split.
  - LD moved to approve \$500 to lock in the venue reservation at CSU Pueblo. Kyle seconded; vote passed.
- President report: Kyle/KD0TRD
  - Next "Get on the air" session: 2023-02-11, PPROEM, 1300-1500.
    - Kyle/KD0TRD
    - Jon/KJ0CFW
    - Derek/K0ATV
    - Dave/N0DMP
    - Ron/K0YIO
    - David/AD0QD
    - LD/W0XLD to bring signs/handouts for local repeaters and frequencies. Ask for a show of hands for attendees at Wednesday membership meeting. Handout can also list where to buy radios and gear.
  - Next workshop
    - April: roll-up J-pole antenna
    - LD volunteers to contact Library 21C to reserve their CreateSpace room.
  - Fox hunting tutorial
    - As a workshop? Separate event and date?
      - Possible dates discussed include Aug. 5 as the fox-hunting tutorial workshop, then Aug. 19 as fox hunt golf and club picnic event.
    - Volunteers?
- Volunteer opportunities
  - Get on the air session
    - Volunteers identified above.
    - Location: PPROEM
  - Summer field day
    - Would we like to invite the Colorado Traffic League to join us at our location?
    - We would increment our class by one (2A to 3A or 3A to 4A)
    - More RF engineering would be needed

- Derek made a motion to extend the invitation to them; Ken seconded; vote passed.
  - Dave volunteered to follow up by sending an invitation to CTL.
- Any other new business?
  - Kyle to reach out to Perkins on Platte and Chelton to see if they would like to host our next board meeting.
  - Discussion about the club station in Ellicott: board will set a work party date at the March board meeting.
  - In light of new Megafest location, Doug requested \$37 for four admission fees and a table rental at the Swapfest at the Adams County Fairground on Feb. 19, to advertise the new joint Southern Colorado Megafest concept and location.
    - Doug made the motion to approve \$37; Jon seconded; vote passed.
  - Derek requested up to \$400 reimbursement to print raffle tickets. (He will pay on his credit card up front, to get the ticket procurement underway immediately.) Doug seconded; vote passed.
- Adjourn
  - Doug made the motion; David seconded; vote passed.

Hello PPRAA board,

I am preparing a summary of PPRAA's Winter Field Day activity to send to the PPRAA email reflector, with duplicates removed and a few mistakes corrected, but here are some numbers to get us started:

- Total contacts: 774 (with duplicates removed)
  - 4 digital
  - 770 SSB
- Stations: 2
  - Yaesu FT-DX10 with EFHW and 20-6m Hexbeam antennas (Ken/K0KWH)
  - Yaesu FT-991A with G5RV antenna (Derek/K0ATV and LD/W0XLD)
- Power: solar, battery, generator backup
- Logging: Cloudlog over WiFi
- Bands/modes worked:
  - 80m LSB: 22
  - 80m JS8: 1
  - 40m LSB: 190
  - 40m JS8: 3
  - 20m USB: 349
  - 15m USB: 154
  - 10m USB: 55
- Time on the air: 22 out of 24 hours
- States worked: 48 out of 50 (missed Alaska and New Mexico)
- Provinces worked: 7 + "NT"/"TER" (Northern Territories)
- Sections worked: 77 out of 85 + 1 DX



- Operators:
  - Ken/K0KWH: 327
  - Derek/K0ATV: 291
  - LD/W0XLD: 53
  - Jim/KN4UDV: 39
  - Kyle/KD0TRD: 18
  - Cory/WD0JKZ: 10
  - Dave/N0DMP: 9
  - Richard/AC0HW: 8
  - David/AD0QD: 6
  - David/[Boy scout]: 6
  - Dick/W5UDM: 4
  - Rick/[Falcon]: 2
  - Richard/KF0KTU: 1

Before I send this summary out to the PPRAA reflector, can anyone refresh my memory on Rick's call sign (from Falcon) and David the boy scout?

Thank you!

LD / W0XLD



**PPRAA**

**Pikes Peak Radio Amateur Association**

14 January, 2023 PPRAA VE Session - 7 Applicants and 8 Elements taken:

1 New Technician

1 New General

2 Upgrade to Amateur Extra

1 Unsuccessful Technician Applicant

1 Unsuccessful General Upgrade Applicant

Our next VE session will be on February 11th

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

## 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](mailto:w7vo@arrl.org)**Error! Hyperlink reference not valid.**

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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 worry about how clean his signal is, he operates CW on the HF bands and teaches ham radio classes.

## 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.**

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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



– Congratulations to Derek, K0ATV (right), for being the first fox hunter to locate both transmitters. He picked an SDRPlay receiver as his first-place prize, and here he receives the PPRAA fox hunt trophy from the previous champion fox hunter, Derek, N0DCW (left).





**Isotron 40**  
**ISOTRON 20/15/10**  
**SO SIMPLE AND SO RUGGED!**  
[www.isotronantennas.com](http://www.isotronantennas.com)

This article will also appear on our web site.

### **MAKING A SMALL CURRENT REGULATED POWER SUPPLY**

Last article was about making a simple voltage regulated power supply. The device used are the LM78xx or LM79xx series device. An inexpensive component that is easy to make use of. The "xx" refers to the voltage desired.

This is good for a good clean constant voltage. However what if we want to regulate the current so it does not exceed a certain value?

This device will also do this.

For example, you may want to charge a battery, but do not want to exceed a current value. You may want to connect a string of LED's, all with the same current rating.

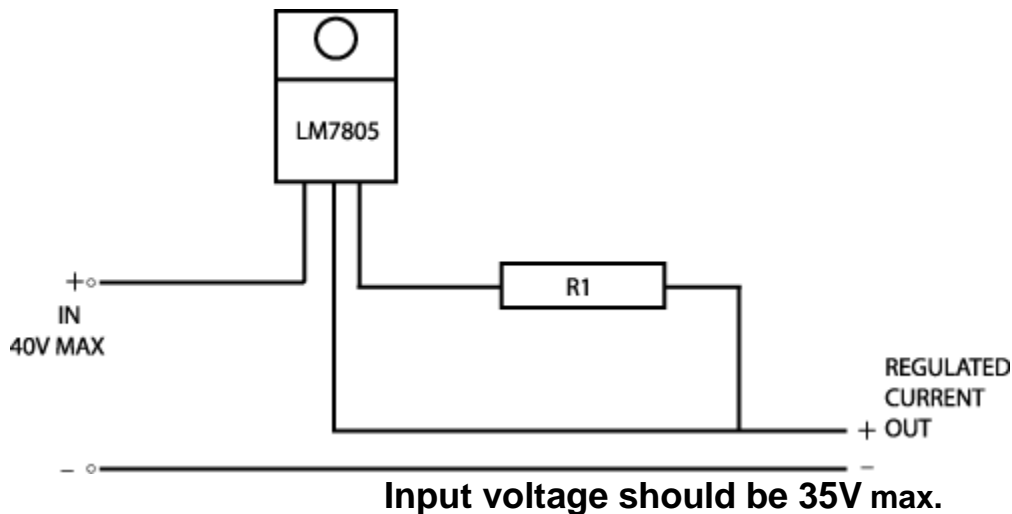
Below is a schematic of how to change the voltage regulator into a current regulator. Which regulator would you choose?

For a + current above ground, you can use any of the LM78 series. Voltage does not matter. For a - current in respect to ground, use the LM79 series.

Below is a LM78 device. R1 determines the value of the current limit. Using a LM7805 regulator with R1 at 250 ohms, the maximum current will be about 20 milliamps. This is ideal for a small LED. If you put more than one LED in series, the regulator will maintain 20 ma. It will adjust the voltage to deliver the 20 ma current and no more to light all the LED's.

For higher currents, reduce the size of R1. R1 does not need to be a high power resistor, 1/4 to 1/2 watt is fine.

When R1 equals 10 ohms on a LM7805, the current limit is about .5 amps. You can increase it, but the LM7805 has a maximum rating of 1.5 amps.



If the device is used as a current regulator, you can actually short the output leads together without damaging the device.

Some applications will require a definite voltage value. Then, the voltage regulator circuit is what you want. However, if voltage is not critical, but you would like to protect the circuit from damage, the current regulator works well.

73,  
Ralph WD0EJA

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OUR EMAIL LIST IS ACQUIRED BY PERSONS WHO HAVE CONTACTED US IN THE PAST.  
IF YOU DESIRE NOT TO BE CONTACTED PLEASE EMAIL YOUR request at <http://wd0eja@isotronantennas.com>  
PHOTO WAS TAKEN 10 MILES SW OF FLORISSANT, CO.



From ECHOLINK website:

What can I do with EchoLink?

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.



## \$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 8<sup>th</sup> Street in Colorado Springs. That's on the southwest corner of US-24 and 8<sup>th</sup> 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](mailto: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](mailto: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  
W7UP, 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@arrrl.org](mailto:hq@arrrl.org) • WWW: <http://www.arrrl.org/>

2021 is the 70<sup>th</sup> 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](http://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**

### **December 1983:**

A motion will be made at the December to establish a club repeater. Please attend. (Interesting to note this has not appeared in any previous 0 Beat to this date.) The Red Cross gave the program at the November meeting, and led an interesting Q&A discussion. The Red Cross would like to work more closely with the club. The club purchased an insurance policy for \$300,000, with a \$1,000,000 rider for the Mall demonstration. Cost is \$100 per year. Les KCØNC will set up a calling tree to notify club members of important information. The first item will be notification of the club's Christmas party. The repeater issue was brought up by Frank KL7IPV at the November meeting. Still looking for a club callsign trustee, preferably an extra class operator. The club will look into determining whether or not it should purchase an antenna rotator. The Chapel Hills Mall demo was a success, with a number of potential new members dropping by. A motion was passed that the board recommend to the club members that the repeater motion be passed at the December 14 meeting. The board approved spending \$200 for the Snack Bar Committee for refreshments.

### **January 1984:**

Since VE testing will soon be allowed by the FCC there is a lengthy article about the facts of VE testing. Colorado Springs will host the next CCARC meeting on March 17. Ongoing discussion at the club meeting about whether or not the club should acquire and operate a repeater. Frank KL7IPV presented a proposal for a repeater. A committee was established to determine the questions concerning a repeater for the club. The January meeting will be held at the Palmer House Motel on North Chestnut, just N of I-25 and Fillmore. The PPRAA is working more closely with the American Red Cross and will help by publishing a list of ARC classes in the Zero Beat. These courses are CPR, and standard and advanced first aid. This year's swapfest may turn into a hamfest. The board discussed the possibility of a larger location, a two-day event, and maybe even charging admission. The swapfest budget was \$200. Frank KL7IPV agreed to take over the duties of Editor. Board member Charlie Biggs KCØTI resigns due to personal conflicts.

## **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](http://www.facebook.com/parkerradioassociation) [parkerradio.org](http://parkerradio.org)

[@ParkerCORadio](#)

# ARRL Outgoing QSL Bureaus

[www.arrl.org/outgoing-qsl-service](http://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](mailto: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](mailto: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](mailto:k0hbx@arrl.net) or call (719) 687-8758.

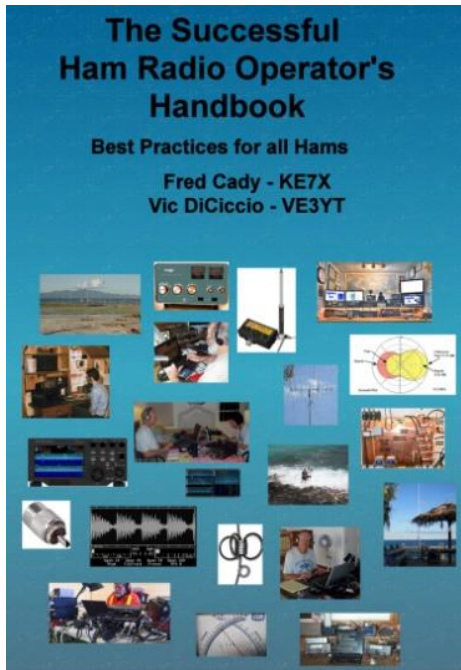
If attending, please BE SURE to bring the following items to the session:

**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





## The Successful Ham Radio Operator's Handbook

This new book is aimed at new or returning hams to help them understand the practical aspects of the hobby, how to use their radios, build antennas and baluns, and get on the air successfully. In it you will find explanations of how the various parts of your ham radio - the transmitter and receiver – work, plus how these are being implemented using software defined radio technology. Operating techniques for VHF/UHF repeaters, HF radio DXing techniques, and the new digital modes are covered. Radio propagation, antennas, transmission lines, SWR and the mysteries of baluns are explained. Building your HF station, choosing a radio, connecting your radio to a computer, and mobile and portable operation are extensively covered.

Both the pdf and spiral-bound printed versions are available from Lulu.com, and the print copy is also sold by DX Engineering. You can find them via the links below:

<http://www.ke7x.com/successful/ordering-the-successful-ham-radio-operator-s-handbook>

Here is a link that describes the book in more detail:

<http://www.ke7x.com/successful>

Follow us on [www.facebook.com/KE7XBOOKS](https://www.facebook.com/KE7XBOOKS) to keep up-to-date on book news and to be notified of book discounts at [www.lulu.com](http://www.lulu.com).

This book has 267 pages, 211 figures and diagrams, and 53 tables of data to make understanding the sometimes complicated ham radio operations much easier. The book follows KE7X's philosophy of presenting material in several forms to accommodate people with different learning styles -- reading, visualizing, hands-on -- with the many figures and text explanations and there are hands-on exercises throughout the book that can help you learn



more about your particular radio.

Follow us on [www.facebook.com/KE7XBOOKS](https://www.facebook.com/KE7XBOOKS) to keep up-to-date on book news and to be notified of book discounts at [www.lulu.com](http://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