



VOLUME 70 ISSUE 11
November 2019

PPRAA Club Officers

President	<u>Don DuBon, N6JRL+</u>
Vice President	<u>Tom Oliphant, K0BUL+</u>
Secretary	<u>Jay Winterton, KD0VRB+</u>
Treasurer	<u>Dick Kohlhaas, W5UDM+</u>
Ø-Beat Editor	<u>Jerre Redding, WAØBCM</u>
Webmaster	<u>Douglas Nielsen, N7LEM</u>
Past President	<u>Jim Bishop, KD0KQL</u>
Board	<u>John Bloodgood, KDØSFY*</u>
Board	<u>Earl Watkins, AE2RW</u>
Board	<u>Dennis Major, N0ABC</u>
Board	<u>Logan Perry, KE0KZ</u>
Board	<u>Anthony Mitchell, KE0LQK</u>
Board	<u>Mike McLaughlin, K0JT*</u>
Board	<u>Stefan Kochis, K0EYE*</u>
Board	<u>Mike Anderson, WV7T*</u>

* In final year of 2-year term

+ One year officer position

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

Monthly Ham Breakfast



Black Bear Diner, 975-A N. Academy Blvd Saturday, 7 December 2019 8 AM

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



December PPRAA Club Meeting

The Nov. 13th 7PM club meeting will be at the Golden Corral on Palmer Park and Powers Blvd (just east of Powers Blvd).

1970 Waynoka Rd, Colorado Springs, CO 80915 (719) 591-9870

October 2019 Board Meeting Minutes

10/7/2019

CTO @ 6:45 PM by KDOKQL (Jim)

In Attendance:

WV7T (Mike Anderson), W5UDM (Dick Kohlhaas), KDOVRB (Jay Winterton), KDOSFY (John Bloodgood), KDOKQL (Jim Bishop), KD0NQM (Jim Rader), N6JRL (Don DuBon), K0JT (Mike McLaughlin), (Virgil Yost), WA0BCM (Jerre Redding), K3ILC (Jim Madsen)

Old Business:

- SK's: None
- Treasurers report by W5UDM, Dick
 - When to remove people from club membership discussion
 - How to better ensure that club members who haven't renewed don't vote –utilize the club roster from Wednesday night and find out who's attending but isn't current with their dues.
 - Life membership idea brought up by Don, N6JRL.
- ZeroBeat Report by Jerre – if anybody has anything else they want in ZeroBeat please get it in to him by tomorrow.
- Webmaster report, N7LEM, Doug – New July list of members received and will be updated soon on the website.
- PPARES Report by KDOSFY, John - Ascent/Marathon Report – we supported both events. Pretty uneventful. 2 air evacs on Sunday. CS Marathon on Sunday. Weather Nets. If people are doing illegal things on repeaters, it's counterproductive to address it with them. It's best to let John know and he can get information to FCC. If you can do DF, let him know what you've got too. If they are interfering with you, just go mobile and overpower them.
- Secretary's Report – KDOVRB, Jay
 - Idea to post to the website some key repeaters in the Colorado Springs area.
- Megafest Follow-up - N6JRL, Don and KD0NQM, Jim – Jim is missing his extension cord. Yellow 50' 12 ga.
- Internet Committee - N7LEM, Doug - The situation with the remote site radio internet connection is still unresolved at this time. Any progress from the committee? Still finding that it's expensive. AA0L, Ray called around. Century Link is about all there is for us out there. DSL could be run to the trailer. Ray could donate a DSL modem to the club to help us minimize our monthly fee. We'll bring the idea to get Century Link DSL (for \$40+/- per month out to the trailer) in our club meeting on Wednesday. AA0L, Ray will compile the information to present.
- Megafest final talley is \$2,469 - W5UDM, Dick
- Club Picnic and Christmas Party - N6JRL, Don's report – He will do his report on these two items on Wednesday.
- N4HYF, Raleigh: Finished moving. Currently in Lawton, Oklahoma looking at real estate. It was a tough move for Raleigh and Ann, but they made it with lots of help from their church here and there

and some much-needed help from our club here. Raleigh really needs a thank you plaque for his superior job as past president.

- Elections in October. Reformation to email out for self-nominations.
 - Nominating committee: W5UDM, KD0KQL, KD0NQM, KD0VRB, KD0SFY will reply all
- Theme night?: October after elections, no program scheduled? How about January? Home brew and silent auction?
- Thursday PPRAA Net: Attendance is pretty good, but lacking officers and board members checking in. It's a good net, please support it. Mike, K0JT, the NET control, has a temporary replacement, Joe, KE0TPW. Good information on the last net. Joe is handling it well and Mike should be back next month.
- K3ILC, Jim– Participation very low on Colorado QSO Party.
- K3ILC, Jim - Check in at fire station before use if you are the first person out there. Fire chief wants to be made aware of any changes we make out there. Lease is good for 3 years and automatically renews. They need to give us a certain amount of notice if they want us out of there.
- Doug, we are 501c(3), we are tax exempt. We need to fill out paperwork for each of the home ruled entities. We don't need to do it at all of the entities, just the ones that we want tax exempt status in (Denver, Colorado Springs).
- KD0SFY – other special events people might want to participate in.
 - 14 Sept – Harvey House Special Event Station
 - Potentials
 - Pikes Peak or Bust Rodeo
 - County Fair
 - 150th Anniversary/Birthday of Colorado Springs
 - Territory Days
 - Peterson Air/Space Museum
 - WWII Aviation Museum
 - Coffin Races in Manitou
- Dick, Membership Report – back to December 2015, average of 39 Members and 6 NonMembers. Partial tabulation passed around. The bylaws say that anybody who's behind more than 1 month should be removed. We want to follow the plan to remove individuals from the club roster after 3 months.
- Updating of the Committees

New Business:

- SK's: None
- Treasurers report by W5UDM, Dick
- Webmaster report, N7LEM, Doug – Out sick tonight, may be at club meeting on Wednesday.
- ZeroBeat Report by WA0BCM, Jerre
- Secretary's Report – KD0VRB, Jay
 - No old business to bring up.
 - New Business

- Possible crew to help KD0DRH, Mel, with minor yard cleanup. He's out of state and needs assistance.
 - A local ham has been approached by his neighbor. He's concerned about his antenna interfering with/sucking up his wifi and other signals. RFI issue to handle.
 - Jim, K3ILC: Club Historian information
 - PPARES Report by KD0SFY, John - Colorado Springs Marathon Report
 - His email address is having issues.
 - Problem with the race. The course had to be changed at the last minute. The race director didn't tell John.
 - Team Rubicon contacted him regarding Manitou cleanup. He told them that he couldn't help them out.
 - Decker Fire – Amateur radio operators were put on standby. We don't know what the damage is to Methodist Mountain antennas and repeaters. Progress is being made on the fire.
 - Megafest Follow-up - N6JRL, Don and KD0NQM, Jim – They got upset about the floor being scratched. We should try to get in before the floor gets refinished next year.
 - Internet Committee - N7LEM, Doug - Any progress from the committee? K3ILC, Jim – Another option presented. It's tied with Sprint cell phone coverage. Jim will call Techsoup and we can bring up at the club meeting if anybody can test Sprint data service at the club station.
 - Christmas Party - N6JRL, Don – Status. Catered. Minimal charge to offset price charged to club treasury? How much? Target \$10/plate paid by club, \$7.50/plate paid by club member. RSVP is very important for planning here!
 - WV7T, Mike motioned that we allocate \$200 for incidentals for the Christmas Party. 2nd by K0JT, Mike.
 - N4HYF, Raleigh: Finished moving. Currently in Lawton Oklahoma. They have closed on their new house and as of Saturday, Raleigh was putting up a 2M/70CM J-pole. He's got a 40M wire dipole going up soon. Raleigh really needs a thank you plaque for his superior job as past president.
 - October after elections, no program scheduled. Theme for January? Home brew and silent auction.
 - Thursday PPRAA Net: Attendance is pretty good, but lacking officers and board members checking in. It's a good net, please support it. Mike, K0JT, the NET control, has a temporary replacement, Joe, KE0TPW. Joe is doing a great job too.
 - Nomination status:
 - President: Don, N6JRL / Curtis, W0CEC
 - Vice President: Tom, K0BUL / Curtis, W0CEC
 - Board: Earl, AE2RW / Logan, KE0KZA / Anthony, KE0LQK / Joe, KE0TPW / Daniel, KE0WJL / Dennis, N0ABC / Dave, ADOQD * meeting day conflict
- (Inputs from 4 of 6 committee members) ➤ WV7T, Mike has lots of stuff to give away still.
- Nov. 11th special event station
 - Update on who he's teaching.
 - December 7th might do a Pearl Harbor Day special event station.
 - KD0SFY, John - With the weather coming watch out for the bad drivers.
 - K3ILC, Jim – A ham that is interested in doing life membership with the club.
 - 65+ = \$100

- 55-65 = \$150
- Below 55 = \$200
- We'll bring forward to club membership via an email.
 - N6JRL, Don - Does club have a Parliamentarian?
 - K3ILC, Jim – Logo contest in club, t-shirts or jackets also a great idea

Motion to Adjourn @ 8:06 PM by KOJT, Mike
 Second by KD0NQM, Jim
All in Favor.

October 2019 Club Meeting Minutes

10/9/2019

CTO @ 7:01 PM by KD0KQL, Jim

In attendance: 35

- Pledge of Allegiance – Lead by N6JRL, Don
- SK's: None
- Introductions

Old Business:

- New hams:
 - Have you done any contesting or digital modes?
 - Do you need technical help?
- Treasurer's Report: W5UDM, Dick
 - Membership numbers and # that are past due. If expired, can't vote. Please renew if your membership has expired.
- Secretary's Report: KD0VRB, Jay
 - Old business:
 - Connectivity at Ellicott site, committee formed
 - Satellite contact committee formed
 - New business:
 - Committee to nominate Officers and Board members formed.
 - Any nominations at this time? Self nominations welcome for Pres, VP, and 3 board positions. Come see KD0VRB, Jay.
- ZeroBeat Report: WA0BCM, Jerre
- Webmaster Report: N7LEM, Doug – All current information is up on the website.
- PPARES Report: KD0SFY, John – Thanks to those who participated this summer in the Severe Weather Net. Pikes Peak Ascent and Marathon report and future projects. Next event is CS Marathon on 9/28 – very easy to support. Just need a HT that can hit the local repeater.
- Megafest Report: KD0NQM, Jim and N6JRL, Don - Anything to add? KD0NQM – Thanks to those who assisted in making it successful. Discussing together what they are going to do next year.
- Table Reservations: NG0I, John - Summary of table rentals.

- KD0NQM, Jim - KingSoopers membership cards are still available -- (not the cash cards) They are free, can be registered by anyone and are linked to our club for our support. We have cards and info on how to register them. Rules are a little different now, but a percentage of your purchases goes to the club.
- Christmas Party: In work, Don, N6JRL is spearheading. Going to be in Black Forrest. Dinner will be catered (if anybody knows, let n6jrl@aol.com know), he could use a few people to help. There will be a minimal charge (\$10/person), anything over the club will pay for, 6-10 PM. Will need people to help clean up.
- N6JRL, Don - Club Picnic Picnic: Black Forest Regional Park, great time, great prizes. Nobody left hungry. Satellite working demonstrations.
- KD0KQL, Jim – Who’s not a member of the reflector? –about a dozen hands went up. Mentioned that a lot of good information comes out on the reflector. Get ahold of John, and give him your email address or you can go through the ppraa.org website and get on the list through there as well.
- N6JRL, Don – Youth DXAdventure – Logan’s grandpa got his passport so he can go with Logan to the next DXAdventure in 2020.
- Thursday Night Net: We needed a volunteer to stand in for Mike, KOJT, while he was out of town. Joe, KE0TPW stepped up. Unless Mike is at the meeting, Joe will continue to be temp Net Control with backups. Lower level tech questions are needed for the Thursday Night Net, so please let Joe know until Mike gets back if you have any questions to submit.

New Business:

- New hams:
 - Are you working hard to upgrade your license?
 - Do you need any tech help or test prep?
- Treasurer’s Report: W5UDM, Dick
 - See the treasurer’s report
 - Percentages of club members by license type. Pretty high percentages of club members with a General or Amateur Extra class license.
- N6JRL, Don
 - Free posters at the back of the room
 - Presentation of QSL card to KD0KQL, Jim
- PPARES Report: KD0SFY, John – Marathon report – Difficulty with changes. Presentation of certificates to those who assisted.
- Secretary’s Report: KDOVRB, Jay
 - Old business:
 - None
 - New business:
 - Nomination Committee
 - President • VP
 - Secretary
 - Treasurer
 - Board Members
 - Mel, a ham who moved away but needs some help with his backyard work. 5-6 people are needed to assist with this.

- Ham who is having an issue with a neighbor who claims that he's sucking all of the radio out of the air with his antenna and disrupting his Wifi and other wireless radio. KDOKQL is going to help out.
 - Presentation of the concept of lifetime membership to PPRAA. We'll bring up again at the next club meeting.
- ZeroBeat Report: WA0BCM, Jerre
- Webmaster Report: N7LEM, Doug – He is out sick.
- Megafest Report: KD0NQM, Jim and N6JRL, Don – N/A
- Summary of the internet issue at the club station in Ellicott
 - ISP options
 - DSL, wireless microwave, wifi hotspots, satellite – These are about \$50/mo, except for the idea that is available through Techsoup, but the models for the hotspots do not support an external antenna. Since this system uses Sprint, does anybody have a phone that we could use to test cellular data reception?
 - PPARES Report by KD0SFY, John – Annual simulated emergency test coming up. It is being held on the 26th. The net will be open to all amateur radio operators. Salvation Army holiday meal services on Thanksgiving and Christmas are coming up. Very easy to do. Will need a handful of volunteers for these service opportunities. ARES was on standby for the Deckers Fire. The weather is changing, so be careful of all of the other people out on the roads.
- Christmas Party: In work, Don, N6JRL is spearheading. Going to be in Black Forrest. Dinner will be catered, the club will provide non-alcoholic beverages, you can bring your own alcohol. Meal will be about \$8 per person. The club will subsidize the cost for the meal. Please sign up so they can get a head count. Let them know if you're going to be bringing any children. You can pay tonight, at the November meeting, or at the dinner. We have the building from 6-10 PM. Feel free to bring Christmas cookies if you'd like. Nice prizes will be available.
- Thursday Night Net: Mike, K0JT, is back in town. Joe, KE0TPW has been helping out.
- Weekend of the 18th – Jamboree on the Air event will be held. If interested, look up JOTA to find out the frequencies.
- ELECTIONS RESULTS
 - President: N6JRL, Don
 - Vice President: K0BUL, Tom
 - Treasurer: W5UDM, Dick
 - Secretary: KD0VRB, Jay
 - Board:
 - AE2RW, Earl
 - N0ABC, Dennis
 - KE0LQK, Anthony
 - KE0KZA, Logan

Motion to Adjourn @ 8:31 PM by KDOKQL, Jim, 2nd by KD0VRB, Jay. *All in Favor.*



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PHASING OR REFLECTION

There are a variety of directive antennas. This is an antenna that puts more radiation in one or two directions than it does in the full circle around it. This can be due to the design of the antenna. Or, it can be from more than one antenna working together.

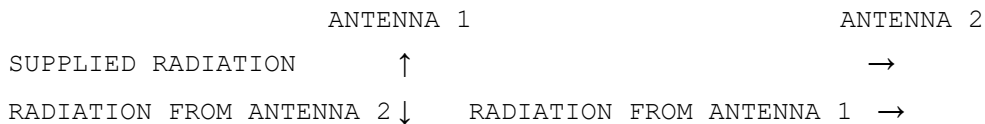
On a directive antenna, are we actually reflecting the radiation much like a mirror reflects an image?

In most cases, no. On frequencies lower than the VHF frequencies, the material the antennas are made from (normally aluminum, copper or steel) has insufficient inductance to actually reflect a signal. As the frequency increases the inductance of the metal can be a factor and actual reflection will occur. Such as in a micro-wave dish.

However, when trying to make a directive antenna on lower frequencies, it needs to be done by phasing more than one antenna.

This can get quite complex, but a basic description can give you an idea of how it works.

Using a dipole as an illustration (antenna 1), we supply it with radiation from the feedline that come from the radio. The dipole favors two directions. Both broadside to the antenna. Now we have a start on a directive antenna. Now, feed another dipole (antenna 2) 1/4 wavelength away. The two antennas will certainly affect each other. The further antenna (antenna 2) is 90 degrees delayed from the first (antenna 1) or driven antenna. However, they are also 90 degrees or 1/4 wave apart. Therefore, when the radiation from the first antenna reaches the second antenna, the radiation is back in phase and will enhance the radiation in that direction.



Now look at it the other way. The radiation from the antenna that is 1/4 wave delayed (antenna 2) reaches the other antenna (antenna 1), but it is delayed 90 degrees. This will be 180 degrees out of phase of the first antenna. Therefore a cancellation of energy takes place and radiation in the that direction is cancelled. Now you have an antenna that puts a measurable amount of radiation in one direction.

Few antennas can actually reflect RF radiation unless it is of a very high frequency. However, phasing is what is taking place for most of our directive arrays.

73,
Ralph WD0EJA

SEPT 2019

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How to get “plugged in” to the amateur radio community

By Dan Romanchik, KB6NU

This morning, I found this email in my inbox:

Thank you for your website and great content. I passed the Tech and General tests on Saturday, and I will be taking the Extra exam in November. Your “No Nonsense” guides were very helpful. I do have a question, though. How do I stay current on what’s happening in the ham world? For example the CQ WW SSB contest was this weekend. How do newbies know this kind of thing? How do we find local or regional hamfests and other events?

This is a great question. Like any special interest, it can seem daunting to get plugged in (pun intended) to the community. Here are a few of my suggestions:

Join the ARRL (<http://arrl.org/>). The American Radio Relay League (ARRL) is really the place to start for information related to amateur radio. *QST*, the ARRL’s monthly magazine, includes news about upcoming contests and ARRL-sanctioned hamfests. It also reviews new amateur radio products and provides a wealth of technical information.

In addition to *QST*, the ARRL publishes many email newsletters that members can subscribe to. For example, *Contest Update* is a biweekly newsletter that not only lists upcoming contests, but also includes tips on operating contests. The *ARES E-Letter* is a monthly public service and emergency communications newsletters. There are also email newsletters for ham radio instructors, those interested in DX, legislative matters, and satellite operation.

Join your local club. While the ARRL will help you keep abreast of amateur radio news and events nationally and internationally, if you want to know what going on in amateur radio in your area, you should join your local club. To find clubs near you, go to <http://www.arrl.org/find-a-club>.

Visit the WA7BNM Contest Calendar (<https://www.contestcalendar.com/>). This contest calendar has become my go-to resource for any and all contest information. This site provides detailed information about amateur radio contests throughout the world, including their scheduled dates/times, rules summaries, log submission information and links to the official rules as published by the contest sponsors. Its features include an 8-Day calendar, a 12-Month calendar, and separate calendars for state QSO parties, CW contests, and QRP contests. You can also get a weekly e-mail of contests taking place in an 8-day period (Monday through Monday), as well as a list of contests scheduled for the next week and a list of log submission information for recent contests.

Ham radio blogs. Blogs are also a good way to keep up with what’s going on in amateur radio. I like to think that I do a good job of covering what’s going on in amateur radio, but, of course, I can’t do it all. That being the case, you might also want read other blogs. Other amateur radio blogs that you might want to check out include:

- The KONR Radio Site (<http://www.k0nr.com/wordpress/>)
- QRP–When you care to send the very least (<https://w2lj.blogspot.com/>)
- Everything Ham Radio (<https://www.everythinghamradio.com/>)

There are a bunch of other good ones out there. Find the ones you like and subscribe to them, so that you get a notification when new items are posted.

Mailing lists. Mailing lists are kind of old school, but if you have a special interest, chances are that there is a mailing list for it. For example, I own an Elecraft KX-3, so I subscribe to the Elecraft KX User Group mailing list (<https://groups.io/g/Elecraft-KX/>). Many amateur radio mailing lists are migrating to the Groups.io. To find a list, just click on the “Find or Create a Group” link at the top of the page. I just did a search for “amateur radio” and found 910 different amateur radio mailing lists.

Podcasts and videocasts. Podcasts are also another great way to stay up with amateur radio. I’m partial to the ICQPodcast (<http://icqpodcast.com/>) because I am on the panel once a month. The podcast not only includes a discussion of what’s new in amateur radio, but also a feature, which digs a little deeper into a particular topic. Other great podcasts are Ham Radio Workbench (<https://www.hamradioworkbench.com/>), and Linux in the Ham Shack (<https://lhspodcast.info/>). Internet video shows that are worth checking out are Ham Radio 2.0 (<https://www.livefromthehamshack.tv/>), Ham Radio Now (<https://www.hamradionow.tv/home>), and Ham Nation (<https://twit.tv/shows/ham-nation>).

This is by no means an exhaustive list. If you have an amateur radio information resource that you find particular helpful, please let me know.

=====

Dan Romanchik, KB6NU, is the author of the KB6NU amateur radio blog (KB6NU.Com), the “No Nonsense” amateur radio license study guides (KB6NU.Com/study-guides/), and often appears on the ICQPodcast (icqpodcast.com). When he's not trying to keep up with ham radio, he likes to build stuff and operate CW on the HF bands.

Major Events

2020 ARRL Rocky Mountain Division Convention

Hamcon Colorado 2020

- Thursday, 6 August 2020: DX University
- Friday August 7 thru Sunday August 9, 2020
- Keystone Conference Center
- Keystone, Colorado
- More info [here](#).



PPRAA 75 years Special Event Station
PPRAA Veterans' Day Special Event Station
PPRAA Pearl Harbor Day Special Event Station

- QSL to: PPRAA, PO Box 16521. Colorado Springs, CO 80935-6521
- No need to send a SASE, we will send cards to all confirmed contacts.

Unraveling the Mystery of 1 × 1 Call Signs

The [1 × 1 Special Event Call Signs](#) system offers a way for clubs, groups, or even individuals to use a short call sign of special significance to the amateur community. These 1 × 1 call signs are [reserved](#) in advance for use in conjunction with short-term special events and commemorative operations. The FCC does not assign 1 × 1 call signs, so they are not "official."

On the matter of special event call signs, the FCC says, in Section 97.3(a)(11)(iii) of the Amateur Service rules: "The call sign is selected by the station licensee from a list of call signs shown on a common database coordinated, maintained and disseminated by the amateur station special event call sign data base coordinators. The call sign must have the single letter prefix K, N, or W, followed by a single numeral 0 through 9, followed by a single letter A through W or Y or Z (for example K1A). The special event call sign is substituted for the call sign shown on the station license grant while the station is transmitting."

The FCC also says in Section 97.119 (d): "Additionally, the station must transmit its *assigned call sign* at least once per hour during such transmissions." This requirement tends to be widely flouted, however.

A 1 × 1 Special Event Call Sign aids other radio amateurs by calling attention to the special event or other occasion. 1 × 1 call signs may be used for a variety of purposes, such as conventions, festivals, dedications, anniversaries, commemorations, and ARRL Field Day. Even local events qualify.

There are 750 1 × 1 Special Event Call Sign possibilities, and radio amateurs of any license class may reserve one as far as a year in advance to use for up to 15 days. Of course, 1 × 1 Special Event Call Signs are recycled. It's first come, first served. See the [Frequently Asked Questions](#) page for more information.

The FCC has selected coordinators to approve and post 1 × 1 Special Event Call Sign reservations to a [searchable database](#). -- *Thanks to The Radiogram (Portage County Amateur Radio Society newsletter)*

*You shop. **Amazon gives.***

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

November 1980:

Les Borst WDØGTA used shortest time, mileage during the 2nd transmitter hunt of the year. Other participants were WBØSDW, ADØZ, WBØLTV, K4DQ, KAØFOZ AAØL, NØAVY, WBØYOB and KØUNS. November meeting will have equipment set up for testing your transmitter. The Christmas party will be held at the Iron Springs Chateau at 6 pm. Cost will be \$12.50 per person for the dinner and show. Dancing and merrymen will follow. The PPRAA received thanks for helping out with the C.M.T.R.A. (Colorado Motorcycle Trail Riders Assn) Enduro Club. The December meeting will be a home brew night. Oak KØROL received the Hammy Award in October. The Santa Net for December will be dropped due to the small number of children in the hospitals, and the lack of interest.

ARRL Outgoing QSL Bureaus

www.arrl.org/outgoing-qs1-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.

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/parkerradioassociati

on parkerradio.org

[@ParkerCORadio](https://www.instagram.com/ParkerCORadio)



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 **EL Paso OEM, Mark Dabling near Fillmore, Colorado Springs, CO 80908**. This may soon be changing to a different address.

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** (now required – this includes children).
3. 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.

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.

Dennis Major N0ABC, PPRAA VE Contact, 719-213-1109

Jim Bishop kd0kql@hotmail.com, 719 332-5283



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 k0hbz@arrl.net or call (719) 687-8758.

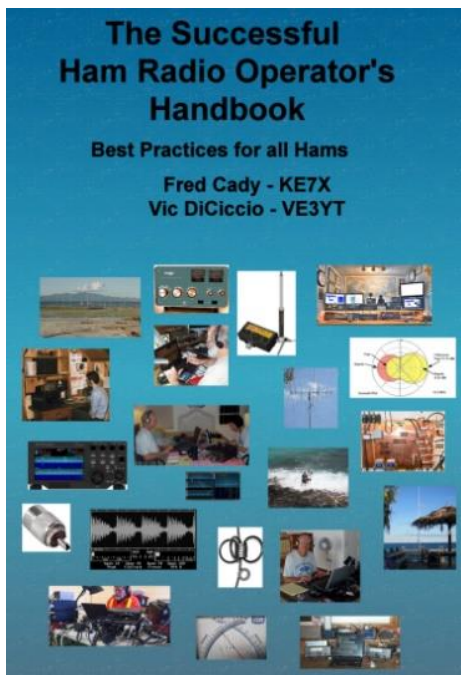
If attending, please BE SURE to bring the following items to the session:

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).
- 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 to keep up-to-date on book news and to be notified of book discounts at 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 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 \(2014-2018\)](#)

[General \(2015-2019\)](#)

[Amateur Extra \(2016-2020\)](#)

[Other...](#)

HamExam.org Amateur Radio Practice Exams

Log in using <https://hamexam.org> 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: _____

E-mail address: _____

Address: _____

City: _____ State: _____ Zip: _____

Call: _____ License Class: _____ Telephone: _____

Are you an ARRL member? Yes No

Additional Name: _____ Call _____ Class _____ ARRL member? Yes No

Additional Name: _____ Call _____ Class _____ ARRL member? Yes No

Additional Name: _____ Call _____ Class _____ ARRL member? Yes No

Full Member - \$15.00

Full Member over 65 - \$10.00

Free - VE Signature Required:

Family Membership (same address) - \$18.00

Family Membership (both over 65) - \$12.00