



VOLUME 70 ISSUE 9  
September 2019

## PPRAA Club Officers

<b>President</b>	<b><u><a href="#">Jim Bishop, KD0KQL+</a></u></b>
<b>Vice President</b>	<b><u><a href="#">Don DuBon, N6JRL</a></u></b>
<b>Secretary</b>	<b><u><a href="#">Jay Winterton, KD0VRB+</a></u></b>
<b>Treasurer</b>	<b><u><a href="#">Dick Kohlhaas, W5UDM+</a></u></b>
<b>Ø-Beat Editor</b>	<b><u><a href="#">Jerre Redding, WAØBCM</a></u></b>
<b>Webmaster</b>	<b><u><a href="#">Douglas Nielsen, N7LEM</a></u></b>
<b>Past President</b>	<b><u><a href="#">Rich Milligan, ADØNP SilentKey</a></u></b>
<b>Board</b>	<b><u><a href="#">John Bloodgood, KDØSFY</a></u></b>
<b>Board</b>	<b><u><a href="#">Terry Kift, KD0JAX*</a></u></b>
<b>Board</b>	<b><u><a href="#">Virgil Yost, N0XRS*</a></u></b>
<b>Board</b>	<b><u><a href="#">Raleigh Holcomb, N4HYF</a></u></b>
<b>Board</b>	<b><u><a href="#">Jim Goodwin, KD0SFP</a></u></b>
<b>Board</b>	<b><u><a href="#">Jim Rader, KD0NQM*</a></u></b>
<b>Board</b>	<b><u><a href="#">Mike McLaughlin, K0JT</a></u></b>
<b>Board</b>	<b><u><a href="#">Ray Uberecken, AAØL*</a></u></b>
<b>Board</b>	<b><u><a href="#">Mike Anderson, WV7T</a></u></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



*La Tartine, 1420 Kelly Johnson Blvd.*

*8 AM Saturday, Oct. 5, 2019*

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



## August PPRAA Club Meeting

The Sept. 11th 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](tel:(719)591-9870)

# August 2019 Board Meeting Minutes

8/12/2019

CTO @ 6:30 PM by KD0KQL (Jim)

In Attendance:

WV7T (Mike Anderson), KD0JAX (Terry Kift), W5UDM (Dick Kohlhaas), AA0L (Ray Uberecken), KD0VRB (Jay Winterton), KD0SFY (John Bloodgood), N7LEM (Doug Nielsen), KD0KQL (Jim Bishop), KD0NQM (Jim Rader), N6JRL (Don DuBon), KOJT (Mike McLaughlin), KOEYE (Stefan Kochis), NOXRS (Virgil Yost), WA0BCM (Jerre Redding), K3ILC (Jim Madsen), N0ABC (Dennis Major)

Old Business:

- SK's: WBOJMV
- Treasurers report by W5UDM, Dick
- Webmaster report, N7LEM, Doug – New July list of members received and will be updated soon on the website.
- Secretary's Report – KD0VRB, Jay
- PPARES Report by KD0SFY, John - The Pikes Peak Hill Climb went well except for the fatality of one of the racers of course. The Cycling Hill Climb and the Ascent Marathon are coming up.
- N6JRL, Don and KD0NQM, Jim – Megafest Report - Sign up sheets will be at the club meeting. They need people to help with the Megafest. Friday night set up will start it off and then they'll get together for dinner. Board members and chairmen will be introduced at the Megafest prior to the raffle drawings. Pictures of the winners will be taken.
- KD0KQL, Jim – He was approached by Don (one of the CMRG folks) and was a little upset that nobody asked to use the repeater.
- KD0KQL, Jim – The situation with the remote site radio internet connection is still unresolved at this time. Work in progress on a couple of fronts. It may cost <> \$50 per month plus their (CenturyLink) modem. Create a committee of knowledgeable folks to explore possible options because I don't know enough about it? John – Options: Microwave wireless, satellite internet, broadband hotspot, DSL.
- N6JRL, Don – He and his wife went out to the Club Picnic site. Great location. It's at Black Forest Regional Park pavilion # 2. 24 August. A copy of reservation needs to be posted at the pavilion so no one else gets it while we're there. The club will provide burgers and hot dogs.
- Christmas Party: N6JRL - Status and agreement as to where. Will bring up at the club meeting Wednesday night. Catered or BYOGrub (potluck)? Traditional. Minimal charge to offset price charged to club treasury? How much? \$600 Deposit. \$75/HR. RSVP is very important for planning here! The location he has in mind has A/V capabilities.
- Raleigh, N4HYF: Still moving, but now to Lawton, Oklahoma. Medical issues delaying their move.
- Theme night?: October after elections / no program, and January? Home brew and ???
- Thursday PPRAA Net: Attendance is pretty good, but lacking officers and board members checking in. It's a good net, please support it. Will KOJT need a replacement? He will be out the next few weeks and all of August.
- Field Day 2019: How did it work? It went great. CW carried us, sideband helped. What didn't work? The internet.
- KD0NQM, Jim – HRO in Denver is out of flyers. Doug will run them out on Saturday.

- N6JRL, Don – PPRAA pins are free with \$5 or more donation. They will be at the club meeting.
- N6JRL, Don – July 14<sup>th</sup>-19<sup>th</sup> will be the dates of his youth DXpedition. Please get on your radios and make contacts with the youth. Their callsign is PJ2Y. Don will be back on the 22<sup>nd</sup>.
- Program at club general meeting, Don, N6JRL.
- Satellite antenna use at the site would be nice. We have the antenna, need to set up our azimuth and elevation antenna.
- KD0SFY, John – contacts via the Facebook page. Hopefully a couple of new faces at Wednesday's club meeting.
- N6JRL, Don – asked John about his spotter ID. Has not received it yet.
- N4HYF, Raleigh – Working parties should be more regular.
- KD0KQL, Jim - AF0S needs to have a new trustee. Doug volunteered.
- KD0KQL, Jim – Our inventory guy, KE0TWK, Mike, fell and got very messed up pretty badly. He said that he can make it to the club meeting Wednesday night and KD0KQL will give him a ride.
- KD0NQM, Jim – plenty of cards for King Sooper's. Asked if anybody wanted a card.

#### New Business:

- SK's: None
- ZeroBeat Report by Jerre – if anybody has anything else they want in ZeroBeat please get it in to him by tomorrow.
- 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.
- Doug said that the last of the Megafest prizes for this year have been delivered. There's still one outstanding prize from last year.
- N7LEM, Doug needs a budget approved for food for this year's picnic.
  - KOEYE moved that \$350 max be allotted for the club picnic. 2<sup>nd</sup> by KD0VRB. *All in favor.*
  - Headcount at the club meeting requested.
  - The club is providing the meat and the drinks.
- Webmaster report, N7LEM, Doug – New July list of members received and will be updated soon on the website.
- Secretary's Report – KD0VRB, Jay
- PPARES Report by KD0SFY, John - Saturday was the Cycling Hill Climb. It went well for PPARES. Ascent Marathon on the 24<sup>th</sup> and 25<sup>th</sup> are coming up. He could use volunteers for it.
- N6JRL, Don and KD0NQM, Jim – Megafest Report - Megafest went very well. Good year, profits up, great attendance.
- Christmas Party: N6JRL – We will have to damp mop the floors, sweep it up and vacuum as well. Other minor cleaning also required. Open to suggestions for a good caterer. Find a nice suitable meal for \$10-15. Club supplies beverages.
- N6JRL, Don – Certificates for service at the Club Megafest
- KD0KQL, Jim – Problems at Megafest – floor scratch, no trash receptacle or soap dispenser in the men's room. The janitor was very upset.
- KD0KQL, Jim - Raleigh, N4HYF just moved some stuff down to Lawton, Oklahoma. They may have found a house.

- KD0KQL, Jim - Thursday PPRAA Net: KD0TPW (Joe) will replace K0JT as Net control for a short period of time. Decent turnout last night. 16-18 hams checked in.
- Jim Madsen – Colorado QSO Party coming up. Good idea to have our club station on the air. Next year we should try to involve club officers more and provide scoring based on contacts with club officers.
- Jim Madsen – He took all of the club computers home and updated the software on them.
- N6JRL, Don moved that \$170 be allotted for raffle prizes for the club picnic. WA0BCM, Jerre 2<sup>nd</sup>. *All in favor.*
- KD0SFY, John - Ham tower give away. Somebody needs to respond.
- KD0SFY, John – Special Event ideas:
  - 150 years special even station – it is 2 years out  
Side note: Reminder that 1x1 calls are good for 15 days. We could set up in multiple parks.
  - Pikes Peak or Bust Rodeo (1x1). Peterson Air and Space Museum. National WWII Aviation Museum. Territory Days. Pikes Peak Regional Air Show.
- N0ABC, Dennis – Interested in finding out about the remote base. The board needs to find an internet solution that we can afford.
- AA0L, Ray is the new trustee for AF0S.

Motion to Adjourn @ 7:46 PM by KD0NQM, Jim Rader  
 Second by KOEYE, Stefan  
*All in Favor.*

## August 2019 Club Meeting Minutes

8/14/2019

CTO @ 6:58 PM by KD0KQL, Jim

In attendance: 33

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

Old Business:

- SK's: WBOJMV
- New hams:
  - Have you become involved in local nets, etc.? No, but he was involved with Field Day.
- WV7T, Mike – We failed at helping Billy's wife pack for her move.
- Treasurer's Report: W5UDM, Dick
- Secretary's Report: KD0VRB, Jay
- KD0KQL – We've established a committee to work on the internet solution out at Ellicott.
- ZeroBeat Report: WA0BCM, Jerre
- Webmaster Report: N7LEM, Doug – He's been updating the membership list on the website.
- PPARES Report: KD0SFY, John – International Hill Climb event – unfortunately there was a fatality of one of the motorcyclists. Bad weather was an issue and made for a longer day.

- Upcoming Events: Pikes Peak Cycling 8/10 and Ascent Marathon 8/24, 8/25.
- You can register on the PPARES website.
- Megafest Report: KD0NQM, Jim and/or N6JRL, Don – 7/27 is our Megafest. We need volunteers and a signup sheet for assisting to let vendors in and work up front. Training will be provided. Friday night help is needed to set up tables and chairs, beginning about 4 PM or 4:30 PM. It only takes an hour and a half and dinner will be provided.
- KD0NQM, Jim – King Soopers membership cards (not the cash cards) can be registered by anyone and linked to our club for our support. We have cards and info on how to register them. You don't have to put up any funds. Just get the card registered and then have your card scanned each time you check out at King Soopers.
- Table Reservations: NG0I, John - How many tables reserved to date? 41 out of 100. We usually get quite a few reservations during the last few weeks. Trying something new: Anderson Windows out of Denver requested permission to have display space. Granted.
- WV7T, Mike and KE0TWK, Michael - Status of Equipment at Ellicott and current Inventory. Bringing excess donated "stuff" to sell at club table. Mike could use help Saturday morning getting everything inside to the table to be sold. He'd like to get a table as close to the raffle table as possible.
- N6JRL, Don- Youth DXpedition is next week (14th – 19<sup>th</sup>). Listen for PJ6Y and please make contact. The kids are trying to break the current record. Modes include: CW, FT8, SSB
- N6JRL, Don – Pins come with donations \$5 or greater. Proceeds go into the scholarship fund.
- New meeting location: Please tip appropriately for good service.
- Christmas Party: In work, Don, N6JRL. Catered, minimal charge, paid for, will get overpayment back. Regular club meeting night at Community Center in Black Forrest. We are requesting a donation for the meal.
- N6JRL, Don - Club Picnic: We have reserved a spot. Where is it this year? Black Forest Regional Park, pavilion #2. Date – Saturday, 24 August was determined. KD0KQL, Jim visited the site the other day and it's very nice. Similar to Fountain Creek Nature Center and Bear Creek Park which we've used in the past. Bring pot luck items. We'll have the meat and drinks. We'll be starting at 10 AM and eating around 12:30 PM. Please bring your own chairs.
- Board member short: New board member voted in at last meeting. Stefan Kochis, KOEYE
- Thursday Night Net: We need a volunteer to stand in for Mike, K0JT, while he's out of town for the next month or so. Joe volunteered and will take care of being net control.
- Field Day info: We got the butternut fixed up, got the 40m dipole back up, Janet and Larry brought their mower up. Mike, WV7T How did we do? What went on?
- Please tip appropriately for good service.

#### New Business:

- New hams:
  - Did you go to the Megafest?
  - Did you buy anything?
- Treasurer's Report: W5UDM, Dick
  - Motion by KD0VRB to accept Treasurer's Report as published. 2<sup>nd</sup> by KD0NQM. *All in favor.*
- Secretary's Report: KD0VRB, Jay
  - Old business: Connectivity at Ellicott site, committee formed
  - New business: Satellite contact committee formed

- ZeroBeat Report: WA0BCM, Jerre – Submitted today via email. He does not have the treasurer's report in there yet. Minutes not in there because he does not have them.
- Webmaster Report: N7LEM, Doug – All prizes have been delivered that were not claimed at the MegaFest.
- PPARES Report: KD0SFY, John – Upcoming Pikes Peak Cycle race and Ascent (24<sup>th</sup>) and Marathon (25<sup>th</sup>). Go to PPARES website to sign up. PPARES.net. NWS Weather Net discontinuing at end of the month.
- WV7T, Mike sold lots of excess donations at Megafest. He collected \$500-600 for the club.
- KD0NQM, Jim - KingSoopers membership cards (not the cash cards) 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.
- N6JRL, Don- Presentation of Certificates of Award to those who assisted with the MegaFest.
- Youth DX Adventure to PJ2Y. Presentation at meeting.
- KD0KQL, Jim – New location for club meetings (Golden Coral). Please tip appropriately for good service.
- Christmas Party: In work, Don, N6JRL is spearheading. 12/12 at Black Forest Community Center. Catered, minimal charge, paid for, will get overpayment back.
- N6JRL, Don - Club Picnic: Black Forest Regional Park, pavilion #2. Date – Saturday, 24 August. Show up anytime from 10 AM on. Potluck with meat and drinks furnished by the club. Bring something good to eat and share. Let's have a great day out in the woods.
- Thursday Night Net: We needed a volunteer to stand in for Mike, K0JT, while he was out of town. Joe, KE0TPW stepped up.
- N6JRL, Don – KD0KQL, Jim was presented with a PJ2Y Youth DX Adventure hat.
- The board decided to replace the signup book with the form. You can initial to check in, confirm that your information is correct, and see if you're current on your dues.

Program – N6JRL, Don – The Youth DX Adventure to PJ2Y (Curacao).

Motion to Adjourn @ 8:36 PM by KD0SFY, John, 2nd by N7LEM, Doug.

*All in Favor.*



**ISOTRON 80/40  
GET READY FOR THE FALL HF SEASON**

**[www.isotronantennas.com](http://www.isotronantennas.com)**

**THE BEST WAY TO OPERATE HF**

**EASY INSTALLATION  
EXCELLENT PERFORMANCE  
DURABLE CONSTRUCTION  
CC&R FRIENDLY (XYL ALSO**

**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.

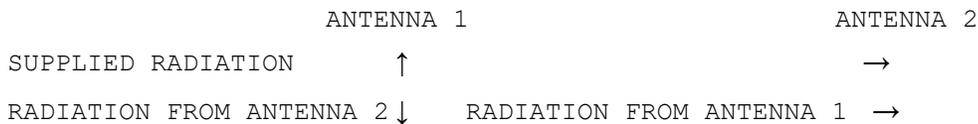
On a directive antenna, are we actually reflecting the radiation much like a mirror reflects an image?

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

**BILAL COMPANY**  
137 MANCHESTER DR.  
FLORISSANT, CO. 80816 U.S.A  
PH/FX: 719/687-0650  
[wd0eja@isotronantennas.com](mailto:wd0eja@isotronantennas.com)

# DXpedition to use FT8 robot?

By Dan Romanchik, KB6NU

It's inevitable. At some point, machines are going to render humans irrelevant. It's been a recurring theme in science fiction since before I was born (1955), and there are numerous predictions of the Singularity, the point in time when machines will be smarter than human, occurring between 2030 and 2045.

It may happen in amateur radio sooner than we think. A couple of days ago, one of my readers, sent me a link to a blog post by John, AE5X: [Automated FT8 "FoxBot" in upcoming DXpedition – confirmed](#). He wrote:

“A [DXpedition to Tokelau](#) will take place from 1 to 11 October and it will be your chance to work an FT8 robot operating in Fox/Hound mode.

“Stathis SV5DKL has been working on a “FoxBot” for some time now, is listed as a partner to this DXpedition and has confirmed that the DXpedition will be using his FoxBot.”

John has since updated this post, noting “The SV5DKL logo has now been removed and the DX team will be in ‘full compliance’ with the mode.” Full compliance meaning following the rules set up by the ARRL DXCC rules.

The ARRL is, of course, against the use of robots. A recent *ARRL Letter* noted:

“ARRL has incorporated changes to the rules for all ARRL-sponsored contests and DXCC, prohibiting automated contacts and requiring that an actual operator is initiating and carrying out a contact. These changes also apply to Worked All States (including Triple Play and 5-Band WAS), Fred Fish W5FF Memorial, and VUCC awards. The changes are effective immediately and affect the rules for both HF contests, and VHF/UHF contests as well as DXCC.

“A resolution at the July ARRL Board of Directors meeting pointed to 'growing concern over fully automated contacts being made and claimed' for contest and for DXCC credit. The rules now require that each claimed contact include contemporaneous direct initiation by the operator on both sides of the contact. Initiation of a contact may either be local or remote.”

As AE5X says, however, the use of FT8 robots in the future is a certainty. Sooner or later, some DXpedition is going to use an FT8 robot without saying anything about it. How is the ARRL going to know that a DXpedition is using robots if the DXpedition operators don't tell them?

I'm wondering when some DXpedition is going to give up on SSB and CW altogether. Why bother with those modes when you can make hundreds or thousands more contacts by just operating FT8?

Another thought just occurred to me. If the ARRL gets its way and Techs are awarded HF digital privileges, how long will it take for some enterprising Tech to make the DXCC Honor Roll using FT8 exclusively. Oh, the horror of it all!

=====

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 wondering when robots are going to take over the world, he likes to (manually) operate CW on the HF bands.

## Major Events

### **WWV Centennial Special Event Station**

- 28 September – 2 October 2019
- On Air and Fort Collins, CO
- Operators needed
- More info [here.](#)

### **BARCfest**

- Sunday, 6 October 2019
- Boulder County Fairgrounds, Longmont, CO
- More info [here.](#)

### **JOTA-JOTI – Jamboree-on-the-Air/Internet**

- 18-20 October 2019
- More info [here.](#)

### **TechFest – 2019**

- Saturday November 2, 2019
- More info [here.](#)

### **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.

**Subject:** WWV Centennial Celebration and special event amateur radio station

**Date:** Jan 22, 2019 5:29 PM

1/22/19

Pikes Peak Radio Amateur Association, AF0S

To whom it may concern,

The Northern Colorado Amateur Radio Club (NCARC) is planning a special event amateur radio station to commemorate the 100th anniversary of radio station WWV. The National Institute of Standards and Technology (NIST) lists their celebration for October 1, 2019 (see attached press release). NCARC plans to operate a multi-station, multi-modal 24-hour effort for 5 days from September 28 through October 2, 2019. NIST and NCARC have been in collaboration but had to suspend planning when the government shutdown starting December 22, 2018.

Our committee decided we needed to reach out on our own; there appears to be no end in sight. We look forward to an eventual resolution, returning to planning this event with NIST, to their own press release, and to putting on a wonderful celebration of a major technological and historical milestone at the end of September 2019.

The enormous effort will require a large number of hams. While we will have some of our club members as operators, we know this effort is way more than we can do on our own. It would be our pleasure to share this experience with other clubs and amateurs who may have an affinity to WWV.

We plan to have an open application period, beginning mid to late February, no later than March 1. We will post the most current information on the Operators page of our website. Application instructions and requirements will be posted as soon as they are available.

We encourage you to consider a beautiful fall visit to Fort Collins and Wellington, Colorado! It will be a serious operating event, we think potentially akin to a DXpedition, but also should be a huge amount of fun and something to be proud of and remember.

Please share the press release with your club members, and do check on the event website, WWV100.com <<http://wwv100.com/>>, WWV100.org <<http://wwv100.org/>>, or WWV100.net <<http://wwv100.net/>>, often. It may take some time for the government to return to normal when it does re-open, but we will report any updates as we learn about them and can make them public.

Thank you and 73,  
Dave Swartz, W0DAS  
WWV Committee, NCARC

***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

September 1982:

An RFI seminar will be held at this month's club meeting. William Nelson of Nelson Consulting has over 30 years experience in tracking down RFI. There will be a hidden transmitter hunt in the near future. The club will purchase beer, pop, potato chips and charcoal for the picnic. Bring your own meat and a side dish. Bob KØDJ gave a report of his visit to the ARRL Convention for the Rocky Mountain and Northwest Divisions. Al Bailey ADØZ writes the next installment in his series on computers. This one delves into the history of computers. Since next month is election month the board is looking for people that want to run for office. Contact Al if you're interested in a club cap or jacket. Mark reports that Commander Casey of the Naval Reserve Center is interested in discussing a possible location for the club station. A proposal is being worked up. The first "The Way it Was" article appears, about establishing a wireless station on Pikes Peak for the purpose of relaying signals between the two coasts.

Friends of BARCfest,

Below and attached to this e-mail is the flyer and reservation form for this year's BARCfest hamfest, Sunday, October 6th, 8:00 a.m., at the Boulder County Fairgrounds Exhibit Building (just north of Hover Road and Nelson Road intersection in Longmont).

Please help get the word out. We would appreciate your passing along the flyer and mentioning BARCfest at meetings and on nets. As always, the BARC Juniors will be there. V.E. license exams will be held at 10:00 a.m. There will be hourly door prizes with grand prize at noon.

As in the past, admission is \$5 (children 12 and under free with paid adult). Tables are \$10 pre-paid or \$15 at the door.

Thanks & 73,

Mike (W3DIF)

Treasurer, Boulder Amateur Radio Club (BARC)

[barc70@arrl.net](mailto:barc70@arrl.net)

303-404-2161

BARCfest Website: [https://www.qsl.net/w0dk/barcfest\\_files/barcfest.html](https://www.qsl.net/w0dk/barcfest_files/barcfest.html)

BARC Website: <http://www.qsl.net/w0dk>

=====

***Boulder Amateur Radio Club (BARC) – 65th***

***BARCfest Hamfest***

**Ham Radio and Electronics**

***Sunday, October 6, 2019, 8:00 a.m.***

**Boulder County Fairgrounds -- Exhibit Building**

(Just north of the Hover Rd. & Nelson Rd. intersection in Longmont, Colorado)

**Admission \$5 -- Children 12 and Under Free with Paid Adult**

(Correct Change Appreciated to Avoid Delays at the Door)

**Lots of Great Treasures**

**Awesome Door Prizes Hourly With**

# Grand Prize at 12 Noon

(Must be Present to Win)

## ARRL V.E. License Testing, 10 a.m.

For items to bring, see web page at <http://www.qsl.net/w0dk/veteam.html> or write to [barc70@arrl.net](mailto:barc70@arrl.net)

Main Doors Open to the Public at 8:00 a.m.

Vendor Doors Open for Set-up at 6:00 a.m.

For more BARCfest information contact: [BARC70@arrl.net](mailto:BARC70@arrl.net) or Mike (W3DIF) 303-404-2161

Also, see BARC web site: <http://www.qsl.net/w0dk>



## 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.

## **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](http://www.facebook.com/parkerradioassociati)

[on parkerradio.org](http://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](mailto: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](mailto: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.



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

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

Follow us on [www.facebook.com/KE7XBOOKS](http://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](http://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 \(2014-2018\)](#)

[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