



VOLUME 70 ISSUE 12
December 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



New Day Café, 5901 Delmonico Dr, 8 AM Saturday, 4 January

All are warmly invited to come on down and join



December PPRAA Club Meeting

The Dec. 11th 7PM club meeting will be at the Black Forest Community Center on Black Forest Road and Shoup Road

bfcommunityclub.org (719) 495-8675

November 2019 Board Meeting Minutes

11/11/2019

CTO @ 6:30 PM by N6JRL (Don)

In Attendance:

WV7T (Mike Anderson), W5UDM (Dick Kohlhaas), KD0VRB (Jay Winterton), KD0SFY (John Bloodgood), KD0KQL (Jim Bishop), KD0NQM (Jim Rader), N6JRL (Don DuBon), KOJT (Mike McLaughlin), N0XRS, (Virgil Yost), K3ILC (Jim Madsen), K0BUL (Tom Oliphant), N7LEM (Doug Nielsen), N0ABC (Dennis Major), KE0KZA (Logan Perry), KE0LQK (Anthony Mitchell)

Old 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

- o No old business to bring up.
- o 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
- o His email address is having issues.
- o Problem with the race. The course had to be changed at the last minute. The race director didn't tell John.
- o Team Rubicon contacted him regarding Manitou cleanup. He told them that he couldn't help them out.
- o 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!

- o WV7T, Mike motioned that we allocate \$200 for incidentals for the Christmas Party. 2nd by KOJT, 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, KOJT, the NET control, has a temporary replacement, Joe, KE0TPW. Joe is doing a great job too. ☐ Nomination status:

 - o President: Don, N6JRL / Curtis, W0CEC
 - o Vice President: Tom, K0BUL / Curtis, W0CEC
 - o Board: Earl, AE2RW / Logan, KE0KZA / Anthony, KE0LQK / Joe, KE0TPW / Daniel, KE0WJL / Dennis, N0ABC / Dave, ADOQD * meeting day conflict
 - o (Inputs from

4 of 6 committee members) ☐ WV7T, Mike has lots of stuff to give away still. o Nov. 11th special event station o Update on who he's teaching. o December 7th might do a Pearl Harbor Day special event station. o KD0SFY, John - With the weather coming watch out for the bad drivers. o 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. o N6JRL, Don - Does club have a Parliamentarian? o K3ILC, Jim – Logo contest in club, t-shirts or jackets also a great idea

New Business:

☐ SK's: None ☐ Micah Rice – Pikes Peak Apex, 4-Day Mountain Bike challenge/race. Looking for assistance with communication on this upcoming bicycle race. Sept 24-27, 2020. Probably start race at 8 AM. Possibly a 2 hr journey to get to the furthest or most remote points. Maps given to KD0SFY for the areas that these races could go through. Several areas will be available that allow vehicular access. He will attend the Wednesday meeting. ☐ Treasurers report by W5UDM, Dick o No more than \$400 for insurance moved to be accepted by the board by KD0SFY, 2nd by N0ABC. o Status of club members who are members of ARRL. ☐ Webmaster report, N7LEM, Doug – Things are up to date on the website. ☐ ZeroBeat Report by WA0BCM, Jerre – Not present.

☐ Secretary's Report – KD0VRB, Jay o Old Business ☐ WV7T Will be getting a plaque for Raleigh. o New Business ☐ None ☐ PPARES Report by KD0SFY, John - o Annual SET in October went well. o Salvation Army meals coming up for Thanksgiving and Christmas. They could use one or two more people. Let KD0SFY know if you can assist. o MARS exercise 11/16. They are going to try to use their M110 mode. It seems to work but they won't know until it becomes time to use it. o 11/7 presentation to the Girl Scouts. They practiced some Morse Code, talking on the radio. o SKYWARN Recognition Day 12/7 in Pueblo. o Edge of Space launched 2 balloons on Saturday. They obtained good heights. o December is Youth on the Air for IARU for Region 1. You'll likely hear lots of young voices on the air in Europe and Africa. ☐ Megafest Follow-up - KD0NQM, Jim – o Need to set a budget for the Megafest prizes tonight. It was \$3k last year. K0BUL motioned that we up the budget to \$3500 from \$3,000 to \$3,500. 2nd by KD0KQL. Will bring it up to the club on Wednesday night for membership approval. o KD0NQM, Jim motioned that we raise the price of admission from \$5 to \$6. 2nd by WV7T. Discussed that we need to bring it forward to the club membership on Wednesday. ☐ Internet Committee - N7LEM, Doug – Ray was working on it but K3ILC said that a ham was willing to share his Ubiquity via microwave. Mobile Beacon was another option (\$10/month paid in advance for a year and you have to buy the device). Earl said that we have 2 domed skylights that we could potentially allow us to receive internet through. How do we move forward? Let's get some people and get a commitment. ☐ N7LEM, Doug - HAMCON 2020 is Colorado's turn. It will be in Denver South off of Lincoln. Will be at CU Denver. No deals have been made with a local hotel. It will be held for 2 full days. Early January registration will begin at \$35 for early birds (for 2 day pass). After a few weeks the fee will go up. They need to sell \$13,000 in 4 meals, otherwise it comes out of the clubs who have paid up seed money. We can make money if they make money. ☐ Christmas Party - N6JRL, Don – Status. Catered. Minimal charge to offset price charged to club treasury? How much? Target \$10/plate paid by club, \$8/plate paid by club member. RSVP is very important for planning here!

There will be door prizes given away from the red tickets from each of the monthly club meetings. ☒ N0ABC, Dennis: Letter – Things are stagnant and have been in the club for a number of years. Suggestions in letter. ☒ K0BUL, Tom – Sign-in roster. List of topics for club meetings. Will ask for names of people interested in a particular topic. If you have additional topics, let him know. ☒ N6JRL, Don:

o KOEYE, Stefan stepped down. o WV7T, Mike questioned whether or not we should list our assets in ZeroBeat? We need to do it once a year according to the club bylaws. ☒ KD0KQL, Jim: o Chuck Berry got us some new club business cards. Passed around to the board members. o KE0KZA, Logan: He called for help on a repeater for some people who got in an accident and needed medical assistance. o Foundation for our scholarship (FAR) – No contact for a while. Check was cashed. Michael has not been able to get any information back from the organization. Jim will find out what's going on. ☒ K3ILC, Jim – KD0NQM, Jim moved for approval for \$41 reimbursement to Jim. KD0KQL, Jim 2nd. ☒ N0XRS, Virgil – We need Elmers to help the new people. ☒ WV7T, Mike – Nomination for Mike Walter to become a board member, 2nd by KD0KQL. ☒ KE0TWK, Michael – Inventory issues ☒ AE2RW, Earl – Fixed leak out at Ellicott. Make sure tape is secure if you're out there.

Motion to Adjourn @ 8:18 PM by N7LEM, Doug Second by KE0TWK, Michael All in Favor.

November 2019 Club Meeting Minutes

11/13/2019

CTO @ 6:58 PM by N6JRL, Don

In attendance: 40

☒ Tribute to Veterans ☒ Pledge of Allegiance – Lead by N6JRL, Don ☒ SK's: KE5JCB ☒ Introductions
Old Business:

☒ New hams: o Are you working hard to upgrade your license? o Do you need any tech help or test prep? ☒ Treasurer's Report: W5UDM, Dick o See the treasurer's report o Percentages of club members by license type. Pretty high percentages of club members with a General or Amateur Extra class license. ☒ N6JRL, Don o Free posters at the back of the room o 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: KD0VRB, Jay o Old business: ☒ None o 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. KD0KQL 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 o 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, KOJT, 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 o President: N6JRL, Don o Vice President: K0BUL, Tom o Treasurer: W5UDM, Dick o Secretary: KD0VRB, Jay o Board: ☐ AE2RW, Earl ☐ N0ABC, Dennis ☐ KE0LQK, Anthony ☐ KE0KZA, Logan

New Business:

☐ WV7T, Mike: Presentation of award to KD0KQL, Jim for WAS. ☐ New hams: o What was your driving force to get into ham radio? ☐ Network, emergencies, and expand his horizons (learning). ☐ Had a piece of equipment he wanted to use that required a license. ☐ Treasurer's Report: W5UDM, Dick o See the treasurer's report ☐ Secretary's Report: KD0VRB, Jay o Old business:

☐ None o New business: ☐ None ☐ ZeroBeat Report: WA0BCM, Jerre ☐ Webmaster Report: N7LEM, Doug ☐ PPARES Report: KD0SFY, John – o Reported on the recent 10/16 SET – 30 operators, 32 situation reports, emergency center forwarded their reports to the state operations center. It went well. o Upcoming Salvation Army Thanksgiving and Christmas meal. Need 1-2 more operators. Email John or the mission coordinator that is listed on the website. o They do most of their stuff with HT's. o MARS event upcoming as well. o John recently got to talk to the Girl Scouts about radio. ☐ N6JRL, Don – Brought up the current stagnant situation in the club. Please give N6JRL, Don and/or K0BUL, Tom your ideas of what you'd like to do with amateur radio. This should help the club membership become more active and learn new things. ☐ Megafest Report: KD0NQM, Jim – Not present but we have a few things we need a membership vote on this evening: o KD0SFY, John made the motion to raise ticket prices from \$5-\$6, 2nd by KD0KQL, Jim. All in favor. o K0BUL, Tom made the motion to increase the prize budget to no more than \$3500. 2nd by KE0TPW, Joe. All in favor. ☐ Christmas Party Information by N6JRL: 42 people have signed up so far. We'd like to have commitments NLT Dec 1st. Holiday style turkey dinner cost is \$8/person. Club offsets cost by approximately \$10. The party is at the community center in Black Forest on our regular meeting night (held on 12/11), time is from 6-10

PM. Meal served at 7 PM. Motion to approve funds \$2292.32 for the dinner by KDOKQL, 2nd by KD0VRB. All in favor. ☒ N7LEM, Doug – August 7-9, 2020 is the date for Hamcon. It will be held in Parker, Colorado this year. The admissions price will be a little higher than usual but please sign up early for cheaper prices. Great prizes will be available and 43 different forum topics are available to choose from. The website will be online for registration NLT 1/15/20. This event usually gets about 500 people and in 2020 they expect around 700. ☒ W0CEC, Curtis – Dilemma on piece of equipment. Needs some soldering done. Help offered. ☒ Questions: o Petition to change baud rate for HF. Why are they petitioning for a change? A symbol rate (limit as 300) to a bandwidth of 2800 will put things in line with IARU 1 and IARU 2. The FCC has been strangling us on this, but if allowed it would allow us to use some commonly used modes that they use overseas.

Program: Micah Rice with Sports Strategies – Pikes Peak Apex Mountain Bike Race

☒ KSOSFY, John - Concern about this being held during the Colorado Springs Marathon.

☒ KEOKZA, Logan: He called for help on a repeater for some people who got in an accident and needed medical assistance.

Motion to Adjourn @ 8:47 PM by N7LEM, Doug, 2nd by KEOSSE, Jay. All in Favor.



ISOTRON 17
THE 17M BAND IS STARTING TO OPEN. GIVE IT A TRY.
www.isotronantennas.com

THE BEST WAY TO OPERATE HF

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

PLEASE FORWARD THIS ARTICLE TO THOSE YOU FEEL WOULD BE INTERESTED.

WHAT IS IN A SWR METER

Almost every station uses a Standing Wave meter. Why use it? What is it measuring? How does it measure?

The term "Standing Wave" is quite accurate. Electrically this is what you are measuring. A wave that appears to be not moving up or down the coax.

To visualize, imagine you had a very long flexible spring. Do any remember the slinky? One end is secured to a post. The spring is stretched out and you are holding it. Now start oscillating the spring up and down. The wave you make will go to the end of the spring. If your speed of oscillation is not resonant with the length of the spring, the wave will return to you.

The return wave will be opposite the forward wave by 180 degrees. Looking at the spring from the side, it will look like the wave generated by you is actually standing still in one place.

If you change the frequency of the forward wave to a resonant value, the wave will appear moving from you to the post and going off to the wild blue yonder. Very little wave if any is returning to you, the source.

Similar happens electrically.

To measure how much RF energy returns we use a Standing Wave Meter.

You have the initial wave from the transmitter to the antenna. If the antenna is not resonant and impedance match is different the wave will return much like the spring. Our interest is, how much is returning?

The meter samples the energy going out. Since the wave coming back is 180 degrees out of phase, it is a simple matter of reversing the phase of the detecting circuit to measure the standing wave.

There are a variety of ways to do this.

Some SWR meters uses a toroid transformer. The center of the transmission line goes through the hole in the toroid. The windings on the toroid pick up a small amount of RF current. The windings are also center tapped and grounded at that point. One side of the windings is 180 degrees out of phase from the other side. Therefore, you can compare the currents to see how much standing wave is coming back to the transmitter.

Years ago the ARRL Amateur Radio Handbook had the "Moni-Match". For the transformer it used a #16 enameled wire that was inserted into 8 inches of RG/8 coax between the shield and inner insulator. A 100 micro-amp meter was used to measure what was on the wire. By reversing the wire to the meter you could measure the SWR. Of course, you need a fast switching diode for the meter to read the RF current.

Even though a SWR meter is a simple device, it tells you much about your feedline and antenna system.

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

Major Events

PPRAA Holiday Party

- Wednesday December 11 (normal monthly meeting night)
- 1900-2130
- Traditional Turkey Dinner
- Black Forest Community Center
- 12530 Black Forest Road
- Optional: Bring a Christmas theme dessert to share.
- Optional: BYOB
- \$8 per member, family member, guest

RSVP by 1 December to [Dick Kohlhaas, W5UDM](#) or pay in advance on-line:
Dinner \$8.

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.](#)

The Swapfest

- Sunday February 16, 2020 (0900-1300)
- Adams County Fairgrounds
- Brighton, Colorado
- More info [here.](#)

LARC Fest

- Saturday, April 4, 2020 (0800-1400)
- Boulder County Fairgrounds
- Longmont, Colorado
- 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
 - Location: Parker, CO
 - 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.

2019 Megafest

– A big thanks to all attendees and vendors who turned out to support us this year and make it a great event. Boy Scout Troop 8 sold coffee & donuts, burgers & brats, chips, and sodas. The weather was great and the rains held off until the event had ended. Everyone seemed to have a great time.

Congratulations to this years raffle winners:

- Grand Prize: Complete Ham Radio HF Station (with RT Systems programming kit) – Levi Young, KE0TLO
- Second Prize: Icom IC-2730A VHF/UHF Dual Band Transceiver (with RT Systems programming kit) – Gerald Nixon, N0AD
- Third Prize: Yaesu FT65R VHF/UHF 2 Meter/70cm Dual Band FM Handheld (with RT Systems programming kit) – Jackie Donnell, W0JED
- Fourth Prize: MFJ-929 200W Auto Tuner – Gerald Nixon, N0AD
- Fifth Prize: MFJ-269C Analyzer – Jason Foster, KB5TPT
- Sixth Prize: LaCrosse C83100 Weather Station – Benjamin Jolly, KE0NRZ
- Seventh Prize: Heil Pro Set Media Pro Headset – Jim Escue, KB0UDV
- Eighth Prize: 2019 ARRL Handbook – David Riese, WB0SDW
- Ninth Prize: Yaesu VX6R Ultra-Rugged Handheld (Donated by CMRG) – James Burnett, WB0GMR
- Tenth Prize: DX Engineering \$100 Gift Certificate – Earl R Watkins, II, AE2RW

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.

PPRAA VE Session

Saturday, December 14·10:00am – 12:30pm

Monthly on the second Saturday

[El Paso County Emergency Services Authority](#)

3755 Mark Dabling Blvd, Colorado Springs, CO 80907, USA

Description: Testing will take place in the Ent Conference Center.

Organizer: pikespeakraa@gmail.com

pikespeakraa@gmail.com

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 1980:

A good article describing the history of Ten-Ten, and the local Pikes Peak chapter, which operates a net on 28845 kHz at 1600Z on Sunday. Dave NØDV is the net control station. At the November meeting it was voted to raise the club dues to \$12 for full, \$15 for family, and \$8 for associate members. Article on public service invites all hams to join with MARS to get practice handling traffic. On December 2, code and theory classes will begin at North Junior High School.

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/parkerradioassociation
[on parkerradio.org](http://parkerradio.org)

@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 County Emergency Services Authority](#)

3755 Mark Dabling Blvd, Colorado Springs, CO 80907, USA

Testing will take place in the Ent Conference Center.

Organizer: pikespeakraa@gmail.com

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.

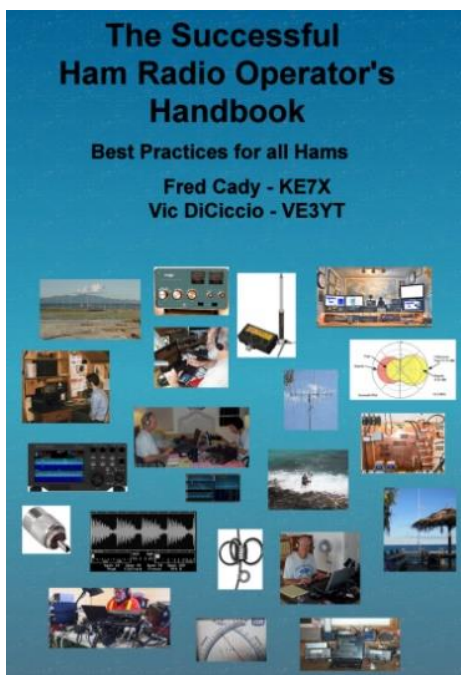
If attending, please BE SURE to bring the following items to the session:

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