



VOLUME 70 ISSUE 10
October 2019

PPRAA Club Officers

President	<u>Jim Bishop, KD0KQL+</u>
Vice President	<u>Don DuBon, N6JRL</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>Curtis Cookson, W0CEC</u>
Board	<u>John Bloodgood, KDØSFY</u>
Board	<u>Terry Kift, KD0JAX*</u>
Board	<u>Virgil Yost, N0XRS*</u>
Board	<u>Jim Rader, KD0NQM*</u>
Board	<u>Mike McLaughlin, K0JT</u>
Board	<u>Ray Uberecken, AAØL*</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



Western Omelette, 16 S Walnut Street Saturday, 2 November 2019 8 AM Saturday,

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



October PPRAA Club Meeting

The Oct. 9th 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

September 2019 Board Meeting Minutes

9/9/2019

CTO @ 6:30 PM by KD0KQL (Jim)

In Attendance:

KD0JAX (Terry Kift), W5UDM (Dick Kohlhaas), AA0L (Ray Uberecken), KDOVRB (Jay Winterton), KD0SFY (John Bloodgood), N7LEM (Doug Nielsen), KD0KQL (Jim Bishop), KD0NQM (Jim Rader), KOJT (Mike McLaughlin), KOEYE (Stefan Kochis), N0XRS (Virgil Yost), WA0BCM (Jerre Redding), K3ILC (Jim Madsen) Old 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. 2nd by KDOVRB.
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 – KDOVRB, Jay
- PPARES Report by KD0SFY, John - Saturday was the Cycling Hill Climb. It went well for PPARES. Ascent Marathon on the 24th and 25th 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 KOJT 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 2nd. *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.

New 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 KD0SFY, 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 – KD0VRB, 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, KDOKQL, KDONQM, 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, KOJT, 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

Motion to Adjourn @ 7:46 PM by KOEYE, Stefan

September 2019 Club Meeting Minutes

9/11/2019

CTO @ 6:58 PM by KD0KQL, Jim

In attendance: 44

- Pledge of Allegiance – Lead by N6JRL, Don
- Honor those lost 18 years ago
- SK's: None
- Introductions

Old 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. 2nd 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 (24th) and Marathon (25th). 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.

New 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.

Program – KD0SFY, John – National Preparedness Month

Motion to Adjourn @ 8:20 PM by KD0NQM, Jim, 2nd by KD0VRB, Jay. *All in Favor*



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DIRECTIONAL PARASITIC ANTENNA BASICS

Many radio operators desire a directional antenna. Putting most of the radiation in or from one direction. On the HF and lower frequencies reflection is near to impossible. There is not enough natural inductance in metal to mirror the lower frequencies. What can you do?

Parasitic or phased elements that are energized by induction.

This will be real basic, just to get an idea how a directional antenna works.

A common directional antenna is a yagi. It is built with an antenna that is directly fed with the coax coming from the radio. Therefore, it is a common dipole. There is another dipole on the rear direction and at least one or more on front direction.

The dipole or element that will be the rear is called a reflector. This is a misnomer since it does not reflect RF current.

RF energy from the fed dipole, called the driven element radiates. This reflector dipole is in close proximity and on the same plane as the driven. Therefore, RF energy induces into this reflector much like a transformer.

Due to it acting like a transformer, it radiates the energy from the driven element, but at 180 degrees out of phase. For simplification, say the reflector element is at a 1/4 wave distance from the driven element. By the time the radiation from the driven reaches the reflector it is 90 degrees delayed or out of phase with the driven. The reflector re-radiates, but 180 degrees out of phase. This radiation when it reaches the driven is back in phase, enhancing radiation in the direction opposite the reflector side. The re-radiation at the reflector cancels the radiation from the driven, nulling radiation in the reflector direction.

	DRIVEN ELEMENT		REFLECTOR ELEMENT
RADIATION FROM DRIVEN	↑		→ 90 DEGREES DELAYED
BACK IN PHASE	↑		← 180 DEGREES RADIATION

The director elements on the opposite side of the driven are closer spaced to the driven. This allows radiation from the driven and reflector to have an affect. This enhances radiation only slightly in the director direction, but substantially increases the nulling affect toward the reflector.

Now, you can start building your yagi beam.

Of course. there are many variables that affect the performance of a parasitic array. There are many variables in spacing, the size of the conductors, efficiency of the driven element and more. Don't be afraid to experiment. You are more likely to get results than not.

73,
Ralph WD0EJA

OCT 2019

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Major Events

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.

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

October 1980:

Ray AAØL writes a short article on a simple noise limiter, made with light bulbs, to place between your rig and your speaker. Forty-seven members and guests at the September meeting. Novice classes to begin September 23 at North Junior High School for six weeks. Don KBØKQ and Jim NØAVY teaching. PPFMA picnic on September 27 at Bud WBØTIB's home. Christmas party planning in progress. T-hunt by Doug WBØMHP on October 19. Mike Stansberry KØTER, and Warren WBØSJR and Bob KØDJ volunteer for the new public service committee.

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

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 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

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](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, 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.

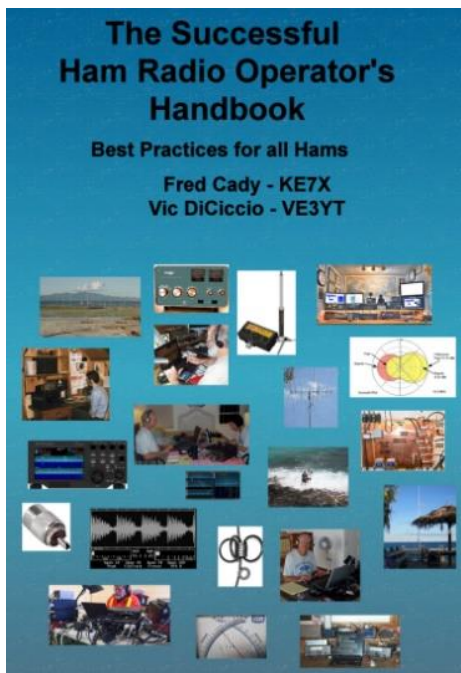
If attending, please BE SURE to bring the following items to the session:

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