



VOLUME 69 ISSUE 10
Oct 2018

PPRAA Club Officers

President	<u>Rich Milligan, ADØNP</u>
Vice President	<u>Mike Anderson, WV7T</u>
Secretary	<u>Curtis Cookson, WØCEC</u>
Treasurer	<u>James Madsen, K3ILC</u>
Ø-Beat Editor	<u>Jerre Redding, WAØBCM</u>
Webmaster	<u>Douglas Nielsen, N7LEM</u>
Board	<u>John Bloodgood, KDØSFY</u>
Board	<u>Glenn Brodt, N3ULW</u>
Board	<u>Dan Huber, KNØMAP</u>
Board	<u>Frank Rogers, KB3PDT</u>
Board	<u>Jim Rader, KDØNQM*</u>
Board	<u>Jim Bishop, KDØKQL*</u>
Board	<u>Virgil Yost, NØXRS*</u>
Board	<u>Ray Uberecken, AAØL</u>

* In final year of 2-year term

New Board Member **[RMike McLaughlin, K0JT](#)**

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

Monthly Ham Breakfast



Saturday, Nov. 3, 2018 8-9:30 AM

(719) 636-2286

Western Omelette, 16 S Walnut Street Saturday

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



Nov. PPRAA Club Meeting

The Oct. 10th 7PM club meeting will be at the IHOP on Stetson Hills Blvd
(just west of Powers Blvd).

5749 Stetson Hills Blvd.

Upcoming events

PPRAA Face book

<http://www.facebook.com/pages/PPRAA-Pikes-Peak-RadioAmateur-Association/185833894769325?v=wall>

Contests and Events

WA7BNM contest calendars link

<http://www.hornucopia.com/contestcal/>

JOTA – Jamboree-on-the-Air

- 19-21 October 2018
- More info [here.](#)

TechFest – 2018

- Saturday November 3, 2018
- More info [here.](#)

You shop. Amazon gives.

Treasurers Report ug 2018

Total	\$17,289.37
Income	\$1800.00

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Jim Madsen

K3ILC Treasurer, PPRAA

June 2018 General Meeting Minutes

Call to Order @ 7:00pm WV7T

No program

45 people in attendance

Tabled Club Picnic until July Board Meeting

Motion to Adjourn @ 8:08pm N7LEM, Second WV7T

July Board Meeting Minutes

CTO @ 6:30pm by Rich ADONP

In Attendance, N3UIW, WV7T, AA0L, KD0NQM, W0CEC, N6JRL, N7LEM, KD0SFY, WA0BCM, KB3PDT, NOXRS, N4HYF, ADONP, K3ILC.

Silent Key Rick Brown K0SU

New Business

WV7T Picnic options at Ellicott Fire Station 8-18 or 8-25.

N7LEM will make a recommendation for upgrading computers.

KD0SFY ask club to establish a PIO.

NOXRS request better management of club property

Discussed repair of indicator on Beam Antenna

Motion to buy 3 tech books for \$108.00 N3ULW, Second AA0L, All in Favor.

Motion to pay \$70 for PO BOX KD0NQM, Second WV7T, All in Favor.

Motion to buy meal for MegaFest crew for \$262.75 N6JRL, Second WV7T, All in Favor.

Motion to buy Sympathy Card for \$5.73 N4HYF, Second WV7T, All in Favor.

Motion to buy VE testing supplies \$43.78 N7LEM, Second WV7T, All in Favor.

Motion to spend \$540.00 (Education money) on training PC's, Second N4HYF, All in Favor.

Motion to Adjourn @ 7:28pm KD0NQM, Second N4HYF, All in Favor.

July General Meeting Minutes

CTO @ 7:00pm by ADONP

Club Voted to have picnic on 8-25-18

Club approved \$540.00 for new training PC's

K3ILC Treasurer Report

KD0DFY PPARES supporting Pikes Peak Ascent and Marathon Aug 18th and 19th.

N6JRL Youth Expedition PJ2Y on July 19th - 24th.

WV7T Elections in October

Meeting Program on EchoLink

Motion to Adjourn @ 8:48 KD0NQM, Second K3ILC, All in Favor.

I haven't received "official notification", but it appears our 2018 \$1,000 scholarship has been awarded.

I received the following thank-you card in PPRAA's mailbox today from Anna Veal, WØANT.

The return address on the envelope was from Littleton, CO. Since she will be attending UCCS, maybe we can get her to join our club. ☺

See images below.

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Jim Madsen

K3ILC

ARRL president suggests that we “re-brand” amateur radio

By Dan Romanchik, KB6NU

This Week in Amateur Radio recently reported (<https://www.stitcher.com/podcast/this-week-in-amateur-radio/e/51325707>) on a speech given by ARRL president, Rick Roderick, K5UR, at the 60th annual West Virginia State ARRL convention held August 25th at WVU Jackson’s Mill Conference Center. Here are some things that he had to say:

“Are we even relevant anymore as ham radio operators? Well, let’s see: We’re world communicators. We provide public service. We help in emergencies and disasters. We help save lives. We talk to the jungles of Africa...to the beaches of the South Pacific. We bounce signals off the moon. We talk to astronauts. We promote technology. We do positive things. So absolutely—we are relevant.

“We’ve got to accept change and we’ve got to adapt if we’re going to bridge that gap to that next generation. So the question that I have here that I have challenged my colleagues at ARRL with is this: is it time to rebrand ham radio? Maybe we need to rebrand the American Radio Relay League. That’s a pretty profound statement.”

Of course, I agree with K5UR on this and said so myself (<https://www.kb6nu.com/are-we-amateurs-or-what/>) several years ago. Unfortunately, according to the report, he retreated to the same old ideas that the ARRL has been spouting for years:

“Well I think we ought to get out there and stir things up. That’s what I think we ought to do. I think you ought to go back and rejuvenate your club. Over the next year, get somebody into ham radio. The second thing I want you to do...I want you to help a ham that needs your help. And the third thing I want you to do is—if you’re not a member of the American Radio Relay League, you need to join today...because you know that whether you like us or not, we’re all you’ve got; ain’t nobody else in Washington DC helping us. I want you to ask yourself this question: don’t you think it’s time to give something back? Now I believe as a group, if we all did that we’ll make a difference in this hobby as we go forward. Be a champion of ham radio. Let’s work together and get it done. Thank you very much.”

I’d like to challenge K5UR and the ARRL to really stir things up. There are lots of us out here giving back by teaching classes, conducting exam sessions, and helping hams get on the air. That’s not the problem.

What we need from the ARRL is real leadership, not just talk. Exhorting the troops is only going to go so far. For most hams, amateur radio is only a hobby, and they do what they can. It’s really up to the ARRL to provide the leadership that ties it all together and provide the framework that will allow us all to be successful.

Saying, “Whether you like us or not, we’re all you’ve got; ain’t nobody else in Washington DC helping us” doesn’t really cut it. You have to show people that you’re really making a difference, not just say you are.

----- When he's not giving the ARRL the benefit of his opinions, Dan blogs about amateur radio, writes exam study guides (www.kb6nu.com/study-guides), and operates CW on the HF bands. Look for him on 30m, 40m, and 80m. You can email him your thoughts about the ARRL at cwgeek@kb6nu.com.

I have been publishing this technical article since January of 2013. For the past 39 years I have manufactured the Isotron Antennas. This also involved helping many with their very difficult installations. Some of the information will be from what we learned solve these problems. Some information will be right from a text book or credible article.

You are welcome to contact me at

wd0eja@isotronantennas.com with questions you may have.



ISOTRON 80/40

GET READY FOR THE FALL HF SEASON

www.isotronantennas.com

USING YOUR ANTENNA ANALYZER

Many have purchased an antenna analyzer. Some expensive, some real expensive. How can you use your device to better know what your antenna is doing?

Your antenna system is not only the antenna. The electrical measurements include the feedline and grounding. A change in length in feedline will change the measurements of the antenna. A change in grounding will do likewise. Therefore, how can you determine what the measurements are of the antenna from the radio end of the feedline using your analyzer?

The readings of Impedance(Z), Resistance(R) and Reactance(X) will NOT be a direct reading of the antenna at the radio end of the coax.

Of course, the most technical way to measure is with a Smith Chart. This chart is not hard to use, but it is inconvenient. Can you use the readings on your analyzer to come close? Of course.

SIMPLIFIED MEASUREMENT

1. Measure the SWR with the analyzer at the radio end of the coax.
2. Scan frequency up or down to find the lowest SWR reading.
3. You have two values from this. This being your resonant point, you may have to adjust the antenna impedance because it did not go to 1:1.
4. One value is to multiply the SWR value times 50.
5. The second value is to divide the SWR into 50.
6. For example, a 2:1 SWR minimum could be 100 ohms at the antenna or 25 ohms.
7. Now you can make the Resistance change ($X=0$) on the antenna. Now you have limited your guessing to two choices.

***AEA ANALYZER (VIA ANALYZER)**

This could apply to other analyzers also.

1. Set F5 to S. This is SWR.
2. Set F3 to SWR: RL:. Not necessary for other analyzers.
3. Scan the area of the band you are looking for and locate minimum SWR.
4. Set the F3 to "Normalized". Not available on some analyzers.
5. Use the Freq. to move up or down in frequency to locate the minimum "j".
6. On other analyzers this is the "X" or reactance value.
7. j0 means zero reactance or "X".
8. It may not show up on the frequency you found the lowest SWR.
9. On the AEA analyzer, it may not go completely to j0.
10. With the AEA analyzer, multiply the Z value times 50.
11. On other analyzers, use the Resistance (R) scale and read it direct. It will be close to the Radiation resistance of the antenna with all you have connected.

This will let you understand your analyzer without running out to the antenna. However, it does not promote good exercise.

73,
Ralph WD0EJA
OCT 2018

BILAL COMPANY

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FLORISSANT, CO. 80816 U.S.A
PH/FX: 719/687-0650

wd0eja@isotronantennas.com

A Field Guide to Simple HF Dipoles is packed with all kinds of goodies like this. Download it (<http://www.dtic.mil/dtic/tr/fulltext/u2/684938.pdf>) right now.

When he's not building dipoles or teaching ham radio classes, Dan blogs about amateur radio, writes exam study guides (www.kb6nu.com/study-guides), and operates CW on the HF bands. Look for him on 30m, 40m, and 80m. You can email him about your experiences with simple HF dipoles at cwgeek@kb6nu.com.

Scouting's 2018 Jamboree on the Air Set for October 19 - 21

Scouting organizations are still [registering](#) to participate in the 2018 Jamboree on the Air ([JOTA](#)) over the October 19 - 21 weekend. With about 1 month to go, JOTA Coordinator Jim Wilson, K5ND, told ARRL that registration is "probably on target" at this point. US registrations stood at 235 as of the end of last week. Right after JOTA 2017, 489 US locations had signed up, although that included both Jamboree on the Air and Jamboree on the Internet (JOTI) participants, which, Wilson said, the Boy Scouts of America (BSA) have "remained steadfast" in considering JOTA and JOTI as separate events, although, he noted, this is not the case at the world level.

"Our goals are primarily to grow participation," Wilson told ARRL. "The World JOTA-JOTI Team has set a goal of 3 million participants by 2021; 2017 saw 1.5 million worldwide. [Sign-ups at the world level](#) right now are at 1,428 locations. Wilson said that, in the US, many locations wait until the last minute to register their participation. In 2017, some 7,900 Scouts took part in JOTA, down by nearly 10,800 participants from 2016, but topping participation for 2014 and 2015. Total radio contact numbers were down from 2016 and 2015.

"We've also put in place a number of aids to help people improve their on-the-air experience, which will be challenging without sunspots," Wilson pointed out.

"We've provided a [video](#) of how to work HF for JOTA.

We've also provided a [quick reference card](#) to help Scouts during the QSO." [Recommended JOTA frequencies](#) are listed on the K2BSA website. "Operators should note that these frequencies are starting points to find QSOs," Wilson added. "They can also turn the dial to find other stations on the air. It's not like a repeater." A [list of Girl Scout activities](#) supported by JOTA-JOTI has also been posted.

Held each year on the third full weekend in October, JOTA is the world's largest Scouting event. JOTA uses Amateur Radio to link Scouts and hams around the world. Scouts of any age and gender can participate, from Cub Scouts to Boy Scouts and Venturers.

Radio amateurs at the local level are encouraged to work with a scout council or unit to set up a JOTA station or arrange to have Scouts visit their shacks. "You can also participate just by making QSOs with the many JOTA stations that will be on the air," Wilson said.



From the annals of PPRAA history

October 1981:

Some events have led the club to nearly pull out of the CCARC. In this issue is a list of questions that will be asked of the CCARC to satisfy some of the concerns the club has about the CCARC. The September meeting was presented by Greg Utterback KAØFOZ who talked about RFI and some of the cures for it. The October meeting will be primarily elections. A transmitter hunt is scheduled for September 18. The club's bylaws are being reviewed by Dave NØDV, Don KBØKQ and Les Borst WDØGTA.

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

parkerradio.org

[@ParkerCORadio](https://twitter.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 NOABC, 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 k0hbx@arrl.net or call (719) 687-8758.

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

A valid PHOTO ID, driver's license preferred (if you do not have a valid photo ID, please call for alternative identification requirements).

- 1. Your FRN NUMBER** (now required – this includes children).

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

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