



VOLUME 69 ISSUE 11  
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## PPRAA Club Officers

<b>President</b>	<b><u><a href="#">Curtis Cookson, W0CEC+</a></u></b>
<b>Vice President</b>	<b><u><a href="#">Jim Bishop, KD0KQL+</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</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>

\* 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



*Saturday, Dec. 1, 2018 8-9:30 AM*

(719) 636-2286

Black Bear Diner, 975-A N. Academy Blvd.0

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



## Nov. PPRAA Club Meeting

The Nov. 14th 7PM club meeting will be at the IHOP on Stetson Hills Blvd (just west of Powers Blvd). 5749 Stetson Hills Blvd.

# PIKES PEAK RADIO AMATEUR ASSOCIATION

## TREASURER'S REPORT

Period: 10 Oct 2018 through 11 Nov 2018

=====		
<b>ASSETS</b>		\$
Ent Checking Acct		6413.62
Ent Savings Acct		3759.64
Wells Fargo Checking Acct		6118.05
Paypal		0.23
Undeposited Funds		0.00
	<b>TOTAL</b>	<b>16291.54</b>
<b>LIABILITIES &amp; EQUITY</b>		
CO QSO Party Awards		553.59
Scholarship Fund		1296.82
Unrestricted Equity		14441.13
	<b>TOTAL</b>	<b>16291.54</b>
=====		
<b>INCOME</b>		
Membership Dues		130.00
Amazon Smile		24.24
Equipment Sales		555.00
Other		12.32
	<b>TOTAL</b>	<b>721.56</b>
<b>EXPENSE</b>		
Station Expense		1005.37
Office Expense		72.72
Donations		100.00
Other		4.86
	<b>TOTAL</b>	<b>1182.95</b>
	<b>NET PROFIT (LOSS)</b>	<b>(461.39)</b>

NOTES: \$90 received from Montrose ARC for QSO awards  
Respectfully submitted, Richard Kohlhaas, W5UDM Treasurer

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/>

### **Winter 2018 Hamfest**

- Saturday January 19, 2019 (0800-1300)
- Larimer County Fairgrounds
- Loveland, Colorado
- More info [here.](#)

### **The Swapfest**

- Sunday February 17, 2019 (0900-1300)
- Adams County Fairgrounds
- Brighton, Colorado
- More info [here.](#)

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

## THE HELICAL ANTENNA

I had the opportunity to build a couple of these for a screen set. The actors wore a hidden cordless microphone transmitting between 400 and 700 Mhz. The Helical antenna was connected to a receiver where the voices could be heard while the actors moved around.

The helical is a uni-directional antenna. In other words it favors one direction.

It is very broad banded. It can cover a large spectrum of a band maintaining a good match.

It has circular polarization. This allows it to communicate equally well regardless of the polarization from the other station. This makes it work well for satellite communication where polarization is constantly changing.

The construction is very forgiving. Sizing of the parts of the antenna are not critical.

There is much information on building a helical. Here are some basic dimensions.

1. The reflective disc is a circular sheet of aluminum. A diameter of .8 to 1.1 wavelength. On 2 meters this is less than 40".
2. The coil is perpendicular to the disc. It has a circumference of .75 to 1.33 wavelength. Or .23 to .42 wavelength diameter. The spacing of the windings is between .21 and .29 wavelength. At least three turns of coil should be used. The coil material of this unit (PICTURE), is 1/4" aluminum rod.
3. One end of the coil is connected to the center of a connector. In the one built below it was a BNC. The other end of the coil is in free space.
4. The disc is the shield side of the feed line. The connector is mounted in the center of the disc.
5. The input impedance measures a bit high. It calculates to 140 X the diameter of the coil. This gives a range of 110 to 180 ohms. Therefore, a simple matching device is needed at the input of the antenna. The antenna below was for reception only, therefore no matching device was used.

This is one of the few antennas where the appearance looks like what it actually does. It is not hard to build and the dimensions are quite forgiving.



73,  
Ralph WD0EJA

NOV 2018

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



**ISOTRON 80/40**

**GET READY FOR THE FALL HF SEASON**

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

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

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## **From the annals of PPRAA history**

**November 1981:**

**A nice article on skip and how and why some stations can't hear other stations. Dave NØDV was presented with a Ten-Ten award from the local chapter for recognition of his placing nationally in a contest. Don WDØBSZ received the Hammy for helping with finding a meeting location for the club. Centennial Electronics moves from 715 N. Weber to its new location of 2324 E. Bijou Street. The Christmas party will be held on December 5 at Iron Springs Chateau in Manitou Springs. It'll cost \$13.50 per person to eat and enjoy the dinner show. The next CCARC meeting will be held at the Sheraton Hotel on October 24. WBØLTV suggested that the club have two meetings per month during the summer. The idea was shelved. The November meeting will be all about the Public Service Committee and how they decide what to do when someone asks for communications support.**

# ARRL Outgoing QSL Bureaus

[www.arrl.org/outgoing-qs1-service](http://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](http://www.facebook.com/parkerradioassociation)

[parkerradio.org](http://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](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 [k0hbx@arrl.net](mailto: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