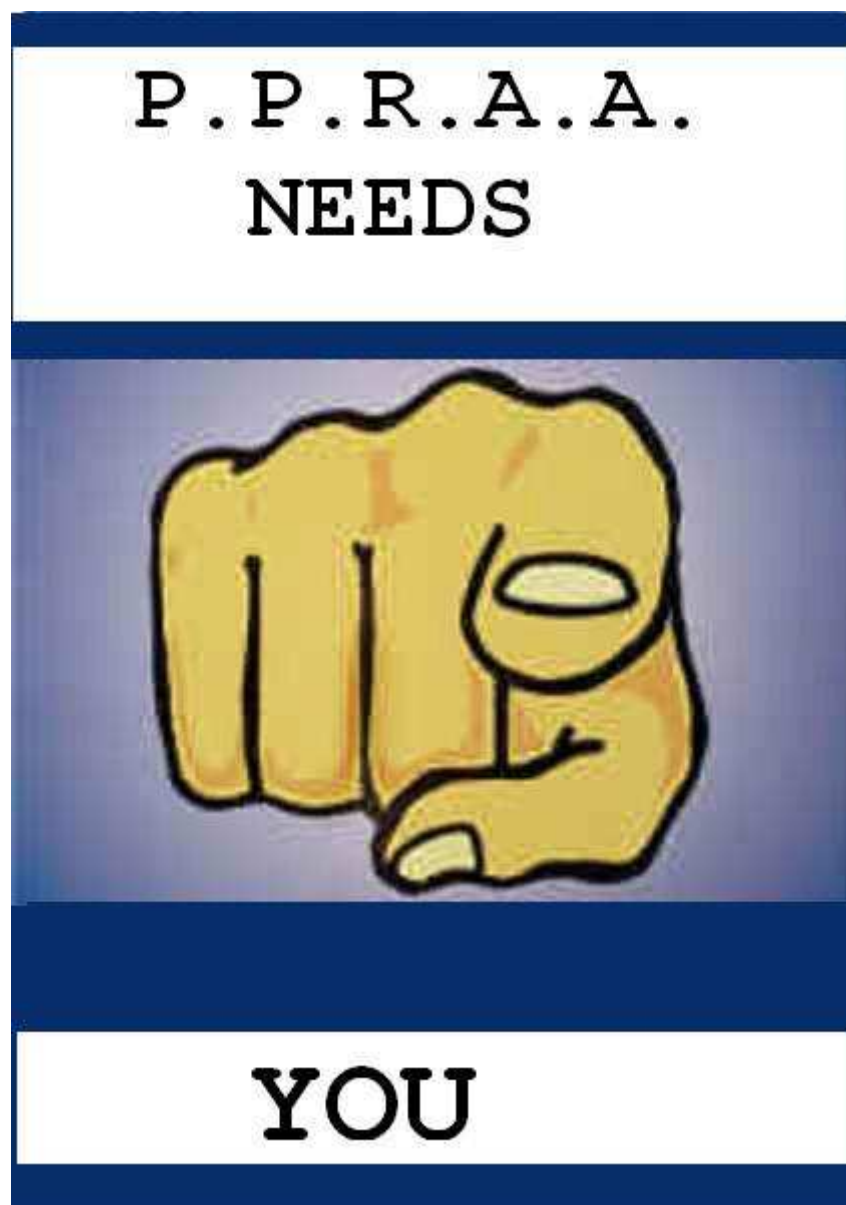




VOLUME 63 ISSUE 10

October 2013

ARRL AFFILIATED-SPECIAL SERVICE CLUB



Be a part of club leadership... Volunteer

## Monthly Ham Breakfast

### LOCATION



## Canyon Coffee and Café

1791 S. 8th Street

Saturday, 5 October 2013

Time is from 8:00-9:30 AM

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

## October PPRAA Club Meeting

The October 9<sup>th</sup>, 7 pm club meeting will be at the IHop on Stetson Hills Blvd (just west of Powers Blvd). 5749 Stetson Hills Blvd.



# 73's from Zero Beat Editor

I will be leaving Zero Beat as it's editor exactly 5 years from when I took over the newsletter (October 2008). It has been fun and rewarding. I am sure a deserving ham will assume its editorship and carry on producing a fine newsletter. Thanks to all the folks who submitted material over the years.

**Mike Anderson WV7T**



## PPRAA Club Officers

<b>President</b>	<b>Mike Derbort</b>	<b>KCØELG</b>
<b>Vice President</b>		
<b>Secretary</b>	<b>Diana Nordstrom</b>	<b>KCØNPP</b>
<b>Treasurer</b>	<b>Pam Scott</b>	<b>WØPRS</b>
<b>Board</b>	<b>Tom Brereton</b>	<b>WØTOM</b>
<b>Board</b>	<b>Doug Neilsen</b>	<b>N7LEM</b>
<b>Board</b>	<b>Jim Bishop</b>	<b>KDØKQL</b>
<b>Board</b>	<b>Virgil Yost</b>	<b>NØXRS</b>
<b>Board</b>	<b>Kerrienne Dixon</b>	<b>KDØIPR</b>
<b>Board</b>	<b>Jim Rader</b>	<b>KDØNQM</b>
<b>Ø-Beat Editor</b>	<b>Open</b>	

All officers can be contacted at:

[boardmembers@ppraa.org](mailto:boardmembers@ppraa.org)

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## Garden of the Gods Amateur Radio Club



### Garden of the Gods ARC meeting

First Monday of each month at Fargos Pizza at 11:30 am. All are welcome.

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## Elections this Month!

### PPRAA FACE BOOK

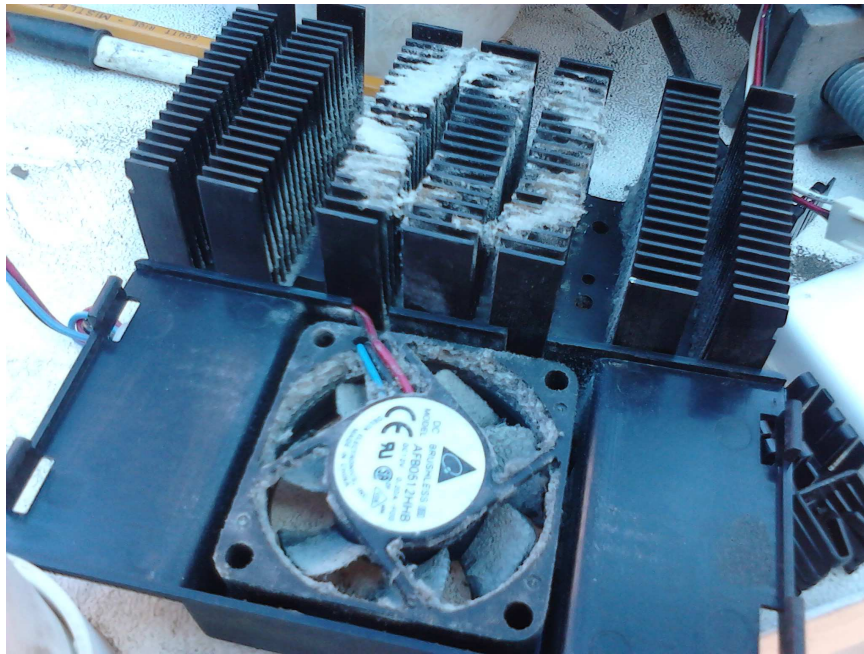
<http://www.facebook.com/pages/PPRAA-Pikes-Peak-Radio-Amateur-Association/185833894769325?v=wall>

**Ham Study Materials** Licensing and technical books are



available at Centennial Electronics.

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Now why would anyone want to clean out the inside of their computer?

## GETTING AN HF ANTENNA TO WORK - PART 5

In the last 2 previous articles Inductive and Capacitive reactance were described. These values have something to do with a resonant circuit. What is it? Besides a reactance, other things go on in the 2 components (inductor and capacitor). When an Alternating electrical source is applied to an inductor, the voltage and current have a little argument. They argue, who is first. In this case the voltage wins and it leads the current by 90 degrees. In other words the voltage and current which normally have waves that are in phase, separate. So when the voltage reaches its peak and starts on its way down, the current starts increasing from 0 to its peak behind the voltage. With a capacitor, the current wins the argument and leads the voltage 90 degrees. Why be



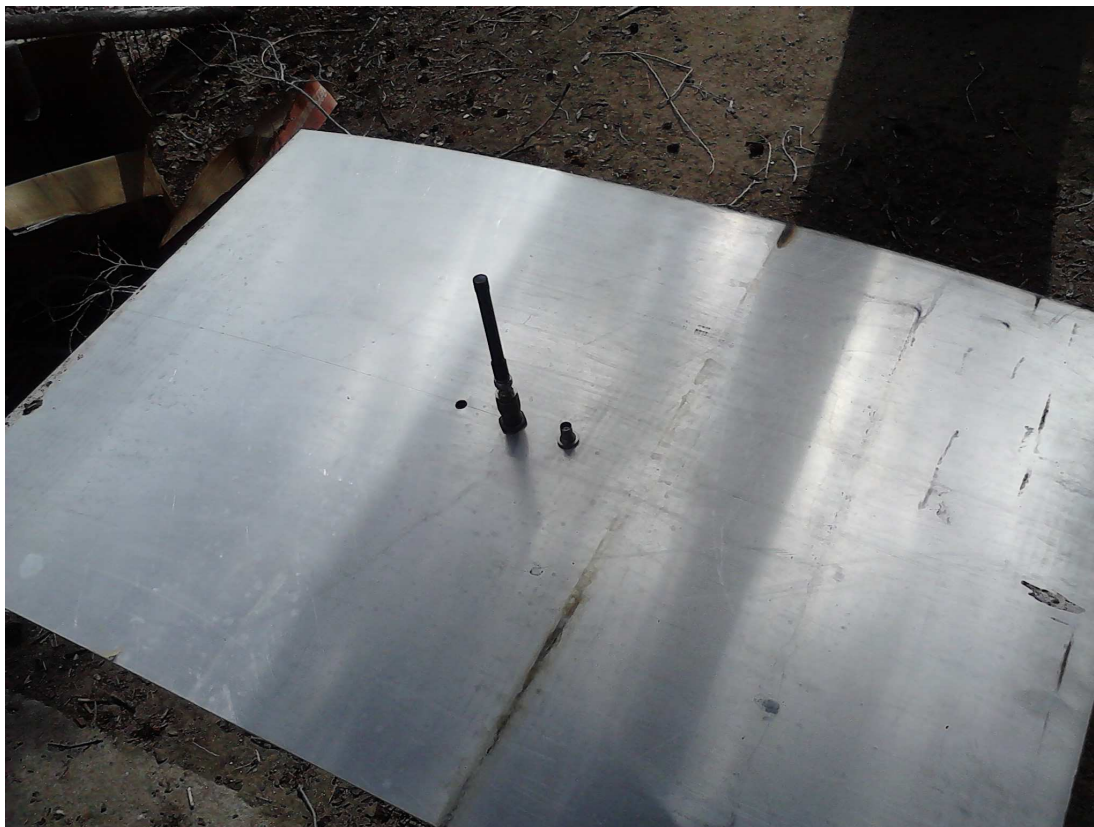
concerned about this argument? Connect an inductor and capacitor in series. One end of each component is connected together. The other side of the inductor is connected to your electrical source and the same for the capacitor. When the frequency hits that amazing point where the 2 reactances are equal, we have resonance. Because of the described phasing and being connected in series, the circuit develops a minimum resistance at resonance. At resonance, this resistance looks just like a regular resister. No phasing argument. As you move up or down in frequency away from resonance, then the reactance starts to kick in and will increase. Actually the resistance this circuit produces is really termed IMPEDANCE -  $Z$ . The definition of  $Z$  is the total opposition to an alternating current. RESISTANCE is related to a direct current or a device that creates no Reactance -  $X$ , such as a carbon resister -  $R$ . From this point on IMPEDANCE or  $Z$  will be the terminology for alternating sources. Resistance that is caused by the reactance of an inductor or capacitor is termed REACTANCE or  $X$ . Resistance that is caused by a non-reactive device such as a carbon resister, is simply termed RESISTANCE or  $R$ . This Series Resonant configuration is the same configuration of dipoles, vertical's and huh, Isotrons. Since this applies to most of the antennas used, we will continue on this configuration next.

73, Ralph WDØEJA

Home antenna test range for portable antennas



Antenna analyzer



Sheet metal ground plane with SO-239 and BNC connectors

Test your rubber duckies!



## ARRL Incoming QSL Bureaus

[www.arrl.org/incoming-qsl-service](http://www.arrl.org/incoming-qsl-service)

## ARRL Outgoing QSL Bureaus

[www.arrl.org/outgoing-qsl-service](http://www.arrl.org/outgoing-qsl-service)

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## ARRL Affiliated Clubs-Outgoing QSL cards

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.

## PPRAA Apparel

Both **Silk Screen and Embroidered** (Shirts, T-Shirts, Hats, Badges, etc.), members pay for individual shirts. Embroidered - Club logo = \$7. Call sign and name ordered together = \$7, Call sign or name ordered separately = \$5 each. The number to call to order is: (719) 591-6151. Monograms by Jane.

**Silkscreened** - T-Shirts with a one color left chest logo only no name or call sign: Small thru Xlarge: \$8.75 ea. T-Shirts with one color logo on left and name with call sign on right side: Small thru Xlarge: \$9.60 ea. for XXlarge add \$2.00 per shirt. POC Dick Thompson, WØRAA 719-520-0288

## From the annals of PPRAA history PPRAA October 1983

Owen Garriott, W5LFL, will be in space soon, and there's an article this month on how to be prepared to work him. Fifty-six members present at the Sept meeting. The Red Cross and the PPRAA are working to improve relations. The Red Cross wants to come and speak at one of the PPRAA meetings. Bruce KXØE is working to reform the District 14 ARES. Applications are available. Nets are on Wednesdays at 7 pm, except for the club meeting night when it'll be on at 6:45 pm. Net frequency is 146.52. Representatives from the ARRL came down from Denver to speak of ARRL and amateur radio issues. Visitor VU2MY and his wife stopped by to visit the meeting during his tour of the US from India. At the board meeting the board talked about consolidating all the club property at one location instead of spreading it around town. Still missing Hammy! Anyone know where it's at? The board decided that rather than ask for volunteers for the Chapel Hills Mall demonstration, it would make it a board project.

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**The annual precontest lightsaber fight.  
Who will be the first one on the air?**

## CONTESTS

### October 2013

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#### October 2013

- [± 222 MHz Fall Sprint](#)
- [± German Telegraphy Contest](#)
  
- [± NRAU 10m Activity Contest](#)
  
- [± SARL 80m QSO Party](#)
- [± TARA PSK Rumble Contest](#)
- [± 15-Meter SSTV Dash Contest](#)
- [± Oceania DX Contest, Phone](#)
- [± EU Autumn Sprint, SSB](#)
- [± California QSO Party](#)
- [± UBA ON Contest, SSB](#)
- [± ARS Spartan Sprint](#)
- [± NAQCC Straight Key/Bug Sprint](#)
- [± RSGB 80m Club Sprint, CW](#)
- [± 432 MHz Fall Sprint](#)
- [± 10-10 Int. 10-10 Day Sprint](#)
- [± NCCC RTTY Sprint Ladder](#)
- [± NCCC Sprint](#)
- [± Makrothen RTTY Contest](#)
- [± Microwave Fall Sprint](#)
- [± Oceania DX Contest, CW](#)
- [± Scandinavian Activity Contest, SSB](#)

1900 local - 2300 local, Oct 1  
0700Z-0959Z, Oct 3  
1700Z-1800Z, Oct 3 (CW) and  
1800Z-1900Z, Oct 3 (SSB) and  
1900Z-2000Z, Oct 3 (FM) and  
2000Z-2100Z, Oct 3 (Dig)  
1700Z-2000Z, Oct 3  
0000Z-2400Z, Oct 5  
0000Z, Oct 5 to 2359Z, Oct 6  
[0800Z, Oct 5 to 0800Z, Oct 6](#)  
1600Z-1959Z, Oct 5  
[1600Z, Oct 5 to 2159Z, Oct 6](#)  
0600Z-1000Z, Oct 6  
0100Z-0300Z, Oct 8  
0030Z-0230Z, Oct 9  
1900Z-2000Z, Oct 9  
1900 local - 2300 local, Oct 9  
0001Z-2359Z, Oct 10  
0130Z-0200Z, Oct 11  
0230Z-0300Z, Oct 11  
0000Z, Oct 12 to 1559Z, Oct 13  
0700 local - 1300 local, Oct 12  
[0800Z, Oct 12 to 0800Z, Oct 13](#)  
1200Z, Oct 12 to 1200Z, Oct 13

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|--|--|
| ± SKCC Weekend Sprintathon                 | 1200Z, Oct 12 to 2400Z, Oct 13           |
| ± EU Autumn Sprint, CW                     | 1600Z-1959Z, Oct 12                      |
| ± Pennsylvania QSO Party                   | 1600Z, Oct 12 to 2200Z, Oct 13           |
| ± Arizona QSO Party                        | 1600Z, Oct 12 to 2359Z, Oct 13           |
| ± FISTS Fall Sprint                        | 1700Z-2100Z, Oct 12                      |
| ± PODXS 070 Club 160m Great Pumpkin Sprint | 2000 local, Oct 12 to 0200 local, Oct 13 |
| ± North American Sprint, RTTY              | 0000Z-0400Z, Oct 13                      |
| ± UBA ON Contest, CW                       | 0600Z-0900Z, Oct 13                      |
| ± Araucaria VHF Contest                    | 0000Z, Oct 19 to 1600Z, Oct 20           |
| ± 10-10 Int. Fall Contest, CW              | 0001Z, Oct 19 to 2359Z, Oct 20           |
| ± New York QSO Party                       | 1400Z, Oct 19 to 0200Z, Oct 20           |
| ± Stew Perry Topband Challenge             | 1500Z, Oct 19 to 1500Z, Oct 20           |
| ± Worked All Germany Contest               | 1500Z, Oct 19 to 1459Z, Oct 20           |
| ± Feld Hell Sprint                         | 2000Z-2200Z, Oct 19                      |
| ± Asia-Pacific Fall Sprint, CW             | 0000Z-0200Z, Oct 20                      |
| ± UBA ON Contest, 2m                       | 0600Z-1000Z, Oct 20                      |
| ± Illinois QSO Party                       | 1700Z, Oct 20 to 0100Z, Oct 21           |
| ± Run for the Bacon QRP Contest            | 0100Z-0300Z, Oct 21                      |
| ± ARRL School Club Roundup                 | 1300Z, Oct 21 to 2359Z, Oct 25           |
| ± NAQCC-EU Monthly Sprint                  | 1800Z-2000Z, Oct 21                      |
| ± SKCC Sprint                              | 0000Z-0200Z, Oct 23                      |
| ± RSGB 80m Club Sprint, SSB                | 1900Z-2000Z, Oct 24                      |
| ± ARRL EME Contest                         | 0000Z, Oct 26 to 2359Z, Oct 27           |
| ± CQ Worldwide DX Contest, SSB             | 0000Z, Oct 26 to 2400Z, Oct 27           |



## Winter's coming!

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**A TRUE tester!**



## **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:

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 SOCIAL SECURITY NUMBER (now required – this includes children) or FRN number.
3. Your ORIGINAL amateur radio license (if any) AND a PHOTOCOPY for the VE Team to keep.
4. The ORIGINAL of any relevant CSCEs you have AND a PHOTOCOPY for the VE Team to keep.
5. 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 Wes KØHBZ

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## **PPRAA VE EXAMS**

**(February, April, June, August October December)**

PPRAA VE session will be held at 9 am on the second Saturday of the even months at Colorado Technical University.

Directions to CTU are at the PPRAA website [ppraa.org](http://ppraa.org).

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 **SOCIAL SECURITY NUMBER** (now required – this includes children) or **FRN** number.
3. Your **ORIGINAL** amateur radio license (if any) **AND** a **PHOTOCOPY** for the VE Team to keep.
4. The **ORIGINAL** of any relevant **CSCEs** you have **AND** a **PHOTOCOPY** for the VE Team to keep.
5. **Cash, Check or Money Order for \$15** (standard ARRL VE Fee). Checks and money orders should be made out to ARRL and covers all the different exams you wish to take at the VE session.

PPRAA VE Team policy, as with many VE Teams, is to not allow same day retests on failed exams.

Galen Steele AGØA

PPRAA VE Contact  
719-213-1109

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.

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## *Ditz n Bitz*

**For Sale or Wanted**

Do you have something to sell, trying to find something or just want to see something get to a good home? Send it in to Dits and Bits.

Also, visit the PPRAA Forum's online Ditz and Bitz at  
[www.ppraa.forumotion.net](http://www.ppraa.forumotion.net) !!

**PPRAA club jacket. It is yellow in color with PPRAA logo on the back and ARES/ARRL patches on the front.**

**Make offer \$**

**Heathkit HM-2103 wattmeter dummy load**

**Ebay \$185**

**\$50**

**West Mountain Radio M8 Rigblaster New in box**

**Radio Mart \$159**

**\$50**

**MFJ-414 Code Tutor class size**

**MFJ \$219**

**\$100**

**10-15-20m rotatable dipole elements**

**\$25**

**Mirage deluxe 2 meter vhf amplifier**

**B-510-G (Low pwr in 100w out)**

**\$ discuss**

**Mirage BD-35 2m/440 amplifier**

**New \$179**

**\$50**

**Hamsticks**

**Make offer**

**6m ground plane**

**\$ 10**

**Ringo Ranger II 2m gain verticle**

**\$ 10**

**Various hand tools**

**\$ discuss**

**Mobile speakers**

**\$ 5 each**



**5 section push up mast**

**New 4 section \$140 home depot**

**\$ 50**

**Mosley CL-105 5 element 10m beam**

**New \$950**

**\$ 100**

**Beam antenna traps 10/15m**

**\$ 5 each**

**Antenna whips (whip sections only)**

**make offer**

**Large Metal shelves**

**\$ 5**

**PPRAA ballcap**

**\$4**

**Pocket reference books (4)**

**\$ 5**

**MFJ CWF-2 CW filter**

**\$ 10**

**2 very old CB radios, tube type, antique for sure**

**\$ 10 each**

**Walkman with WX frequencies**

**\$ 5**

**Flame orange safety helmet**  
**\$ 5**

**2 Rolls RG-59**  
**\$ 5 each**

**Twin halogen flood lights with stand**  
**Ace hardware \$45**  
**\$20**

**Staple gun**  
**\$3**

**Premium picture paper**  
**Fairly good quantity**  
**\$ discuss**

**2 spiral log books**  
**\$1 each**

**1 pad of 3 ring log sheets**  
**\$1**

**If you are interested in any items e-mail or call WV7T 229-8610.**

**Membership Application**  
**Pikes Peak Radio Amateur Association, Inc.**  
**P.O. Box 16521, Colorado Springs, Colorado 80935**

Date: \_\_\_\_\_ ☐ New Membership ☐ Renewal

Name: \_\_\_\_\_

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

E-mail address: \_\_\_\_\_

☐ 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

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**Pikes Peak Radio Amateur Association, Inc.  
P.O. Box 16521  
Colorado Springs, CO 80935-6521 USA**

**To:**