



VOLUME 56 ISSUE 6

July 2006

FIELD DAY 2006 WOODLAND PARK COLORADO

Field Day in Woodland Park was met with mixed success. We hit some setup Snafus Friday evening. When one problem was fixed we ran into a new one. Some problems hounded us the full time.

The GOTA station was the shining star. Honestly, with such operators, how can you miss!



The GOTA station used the portable crank up tower provided by MARC with the PPRAA beam nestled on top. Signals were booming in and operators were getting back on the air after a long a long absence and non-licensed got on the air for the first time. A GOTA station CW contact was also made with positive mentoring from Wes KØHBZ.

This year we tried a 40-meter beam at 50 feet for the CW station, but it was not needed. During the day we used the wire antenna to work the close-in station, and in the evening stations were worked at a steady pace, making switching antennas unnecessary.

Ok, I'm sort of a tent person but I have to admit that the 32-foot 11,000-pound trailer Jim W9KOZ provided for the other station was really a nice operating position. The PPRAA SSB beam is one of the items that needed some work but there was a remarkable performance difference between the GOTA station's beam and this beam. I suggest cleaning and tuning this beam. With the tuning marks off, it took a little while getting the SWR down. Once it was in the air, it did not perform. This station provided a great opportunity for learning how to operate a couple of digital modes. Steve KTØDX provided a nice digital setup, from help understanding how it worked to how to work it. Jim ABØUK seemed to have a great time on digital.

Although the pancake breakfast was good, the lunch Mona provided was fantastic! I liked the cake a lot, too. In the evening, we moved the potluck to about 7 PM and it too was fantastic. If you don't like

spinach, the spinach casserole would have changed your mind. There was a lot of great food, including cinnamon home made ice-cream, and many other tasty desserts.

The 6-meter opening generated a lot of excitement. Kerby KCØQPS and Melinda KCØQQO set up to work VHF and proceeded to work both 6-meters and 2-meters. Too bad the opening did not last long.



Tom NØNTX and Jim N6UPL got a couple voice passes of VO-52 and a handful of digital contacts on other “birds”. As always, watching the antenna tracking the satellites keeps me fairly well entertained.



73,
Dan KBØPPM

A successful Hamcon 2006 is now part of
Amateur Radio history. Attendees had a great

HAMCON 2006 Estes Park, CO

time, learned a lot and were re-amped and recharged!

Riley Hollingsworth, Brian Mileschosky, Evelyn Patterson and Harold Kramer gave informative, motivational and fun presentations. Attendees at 27 technical and operating sessions came away full of fresh ideas and knowledge, ready to dive into new and exciting amateur radio activities.

Many tried their luck at the hilarious QLF contest (sending CW with the left foot), the dastardly CW pileup contest, or the stealthy transmitter foxhunt. W1AW/Ø guest operators delighted in being at the “other end” of pileups, logging over 500 contacts with great band conditions, exciting 6m openings and awesome ICOM 756PROIII radios. Night owls checked into the Wouff Hong Ceremony and many were admitted to the highly coveted upper echelons of amateur radio operators. Don’t know what a Wouff Hong is? Stay up until midnight next year with the night owls.

Twenty-four companies and organizations exhibited and sold their wares, making new and lasting contributions to amateur radio. Attendees won more than 200 prizes donated by nearly 90 companies, organizations and individuals.

Beautiful Estes Park, in the foothills of the incomparable Rocky Mountain National Park, offering opportunity to meet new friends, get reacquainted with old ones, and helped everyone attach faces to call signs, and all with spectacular Colorado summer weather.

NONPROFIT STATUS

The PPRAA is a federal 501(c)(3) nonprofit organization, and welcomes all contributions. Your contributions or donations may be tax-deductible.



After skillfully leading the 2003 and 2006 conventions, the only ones in recent Colorado amateur radio memory, Jerry VerDuft ADØA announced to a hushed group that he was passing the baton. Colorado amateurs, indeed those of the entire Rocky Mountain Division, are indebted to Jerry for bringing these wonderful conventions back to Colorado. Jerry’s dedication, vision and leadership are the cornerstone of an ongoing Colorado Hamcon tradition. Thank you, Jerry

If you have comments or suggestions about this or future conventions, please pass them along to us before you forget!

See you in 2009!

73,
Steve Williams, KØSRW
k0srw@arrrl.net

AMATEUR RADIO LICENSE EXAMINATIONS

Aug. 12 -- Oct. 14 -- Dec. 9

9AM Colorado Technical University
4435 North Chestnut

July 8 – Megafest / Lewis Palmer H.S.,
Monument

Exam fee is \$14.00 for 1, 2, 3, or all 4 elements at a session. Checks payable to ARRL/VEC.

For further details: contact Erik Mugele N5XYX or Dennis Major NØABC or visit the PPRAA web site.

Pikes Peak ARES

<http://www.ppare.org/>



ICS Training: It is becoming more and more apparent that formal training is a major part of being a communications volunteer. The groups that explicitly serve a government agency are all but guaranteed to need this training.

Ultimately it's up to the OEM manager and the communication group leader to determine specific requirements. RACES groups fall into this category.

ARES groups might serve government agencies (PPARES certainly does!) but ARES groups may also serve non-governmental organizations, like the American Red Cross or the Pikes Peak International Hill Climb. Most NGOs don't require ICS training, but it's a darn good thing to have anyway. Incident Command System, National Incident Management System and Federal Response Plan training are the usually required. The courses are easy to learn and follow. The courses are free and available on line at FEMA's independent study website.

www.training.fema.gov/EMIWeb/IS/crslist.asp

The sooner you start, the sooner you'll be prepared.

Exercises on the Horizon: Since 2004 there have been an ongoing series of exercises to measure the capability of the National Disaster Medical System (NDMS).

Colorado ARES has had responsibility for communications during those exercises, which are expected to continue and expand in size for at least another year as we look forward to a full-scale exercise encompassing several locations in Colorado in mid to late 2007.

Since this is an exercise involving federal and local government agencies, the ICS and NIMS are both involved, and the need for ICS training becomes more apparent. Ham operator participation in these exercises will most likely be limited to ICS-trained volunteers by the agencies. These kinds of events are exactly why all ARES members are strongly encouraged to complete the ICS, NIMS and NRP training ASAP!

Pandemic Preparedness: In late March, a few other ECs from Colorado and I attended a conference in Denver on preparing for an influenza pandemic. The conference, hosted by Gov. Owens, brought together numerous local and national leaders in public health and emergency planning and focused on recommendations to the community about what we should be doing and why. With the possibility of an outbreak of the Avian Flu greater than zero, many companies and agencies are preparing now.

A pandemic is a disease outbreak affecting a very large portion of the population. The disease spreads quickly and easily because people have little or no immunity to the new disease.

Local ARES groups, in addition to what individuals, their families and employers are planning, should be developing a plan for dealing with the normal ARES activities in the event that one-third to one-half of your members are out sick for extended periods. What if your EC gets sick? Who is trained to fill in? There are many things to consider and do. More info about this, the possibility of a pandemic and checklists about how to prepare can all be found on the web. Start by checking www.pandemicflu.gov.

Dean KAØPII: Finally, I'd like to add a note about Dean Haskins, the EC for Pikes Peak ARES.

Dean took a very serious fall from a ladder in his back yard on Sunday, May 28th, hitting his head on the ground and injuring his brain. He also suffered some other minor injuries. He has been in a coma since his fall and is improving slowly. If you'd like to read about Dean's recovery, his family has created a web site to let everyone know how he's doing. www.ka0wuc.org/family/dean/

There has recently been good news. Dean is out of the ICS and into a long-term care facility. He is regaining his motor skills and is responding better. He still has a long way to go.

Keep him in your thoughts and prayers. Talk with his family. Ask how he's doing. The website lists an address so you can send a card and Dean loves humorous cards.

We all look forward to seeing Dean back up and around soon.

Rob Roller N7LV

Colorado ARES Section Emergency Coordinator

FM REPEATER OPS

Paul WØWR offers these hints in addition to Matthew N1RWC Penttila's article, "Sorry OM but UR Not Making the Machine," from June 25th on eham.net. www.eham.net/articles/5612

FM modulation has some different characteristics than AM modulation:

1. If you talk really loud on an FM transmitter there is a good chance your voice energy will go outside of the FM channel and the receiving station will hear you clipping or dropping out on voice peaks. Maximum readability and maximum range is achieved when the transmitter is correctly modulated and this some times means you have to back off of the microphone to communicate. Phase distortion caused my multi-path signals can do the same thing and there maybe no solution except moving the antenna. If the transmitter is adjusted wrong this maybe over deviation. If the receiving station has his squelch set too tight it can cause drop outs on voice peaks, too.
2. If a station has low audio but there is no background static noise when he is not talking, then he may just have low deviation, low audio or a bad microphone.
3. If you hear voice and static noise at the same volume level as a station fades in and out, then he has a weak RF signal and needs to increase power or change location.
4. If a station has good audio, but you can hear dogs barking, kids screaming and road noise in the back ground, the audio gain may be set too high. Some radios have a separate audio gain control.

The best audio will be achieved when you talk very close to the microphone but not into it. Always talk across your microphone to prevent 'puffing' noises from being

transmitted by your fricative consonants, like "P."

5. Signal reports should be given relative to readability and amount of "quieting" in your receiver. A full quieting signal has no back ground hiss. A 50% quieting signal has 50% hiss in the background.

When you are on a repeater you can tell the other station that he is ##% quieting into the repeater but if you are not receiving the repeater as full quieting, don't add your receive circuit noise to the other stations signal report. Just say you can't not hear the repeater very well at your location, or that the repeater itself is ##% quieting.

73,
Paul WØWR

SALE ITEMS GEORGE WØGHL LOCKHART

As some of you undoubtedly have heard, George WØGHL has terminal cancer. To save his wife from having to deal with his ham equipment as well as everything else, George is offering the following for sale:

- LA-1000 Amplifier - 1 KW pep w/spare tubes. \$300/OBO
- Heathkit SB-200 Amplifier, completely updated, Brand new RF Supply
- 3-500 matching tubes. Never used after upgrade. Will easily hit 1500 WDC. \$600/OBO
- GSC 20R 20 amp power supply. 12 VDC, regulated. \$85/OBO
- Tripp-Lite PR P/S. 4.5 amp. Nice for 2 meters/70 cm. \$25/OBO
- Welz S{-10X SWR/Power Meter. 200 W Max, 50 Ohm Impedance. \$35/OBO
- Micronta FS/SWR Meter converted to 2 meter operation. 2 ea @ \$15ea/OBO

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Lockhart Sale – Cont'd

- Icom IC-Q7A dual band HT. 350 mw. \$125/OBO
- MFJ Differential T Tuner, Model MFJ-986 - 3 KW PEP - Roller
- Inductor-Simple 2 knob tuning. A really nice Tuner (I happen to own the same tuner). \$225/OBO
- MFJ-259 Antenna Analyzer w/carrying case/ 1.8 to 170 MHz. \$225/OBO
- Icom 275A - All mode 2-meter Transceiver. \$450/OBO
- 1996 Winnebago Explorer Motor Home \$35,000 OBO, 34 feet long, Ford 460 V-8, 36,000 miles, Michelin XLT tires w/6000 miles, slide-out and many more features.

For further information, call George at 495-3983.

IN OTHER WORDS...

The Buccaneer Life for Me

Jackie ACØCA Cornwell

Last Saturday, June 24th, was my first Field Day since becoming a licensed ham. I spent Field Day with the Buccaneers under the command of Mike WV7T Anderson. That is one call sign I doubt I will forget any time soon, especially since I spent so much time operating SSB calling CQ Whiskey Victor Seven Tango and working my way through the pile-ups and over and around the faintly heard stations and call signs offering their voices to the airwaves.

I arrived at 8 AM to help put up the antennas and connect the feed lines for the antennas already in place on the poor man's antenna farm that crowds Mike's front, side and back yards and decorates the trees, fences and roof of his house. None of the portal antennas would even raise the interest of the most conservative Homeowner's Association armed with strict covenants.

One antenna looked like a sea urchin with five different bands sticking up and out from a base made out of the bottom of a chair. That was the Hustler 5-band mobile antenna, which was also interchangeable with a tank antenna that Mike got in the original box. Each antenna screwed into position and was fed from the bottom by coaxial cable that stretched from the back fence to the front of the house. We also strung a 20-meter dipole clothesline antenna with the arms in a "C" configuration, as well as a 20-meter Hamstick stuck in the ground. Each of these antennas was for CW operation where I got my trial by fire listening and logging.

The rest of CW operations worked off the FT-100D with SSB and Digital on the FT-920 for SSB/Digital. Power was set to 5 watts for CW and 5-10 watts PEP for the SSB/Digital station. An Icom IC-28A and Ringo-Ranger antenna were used for 2 meter FM.

A lot of this was new to me but the Buccaneers and Mike put me at my ease, treating me like just another pirate of the airwaves. I also learned a lot about contesting and working QRP in a real contest environment.



Home of Rocky Mountain Navy Buccaneers

Each station was manned by the operator, logger and duplicate contact checker. For a while I logged and checked duplicates on the CW station until the rest of the crowd, drawn by the smell of Jeff KCØSXV's spaghetti as well as the hot dogs, chips and salads laid out to tempt possible crew members close enough to be waylaid and seduced into manning a station.



CW Operations Station

We drew a crowd on Saturday and a trickle on Sunday and signed on the following crew members: Mike WV7T, John NØQJS, Jackie ACØCA, Su KCØPRN, Doc WØMCT, Jim NØTUI, Dave WBØRRU, Paul WØPSS, Ralph KIØNK, and Jeff KCØSXV.

The official name of the group is the Rocky Mountain Navy Buccaneer Contest Group and we pulled off another outstanding Field Day, tallying 56 of a possible 80 total ARRL sections, and we ran it all with under 10 watts of power. I have been invited back for another session the weekend of July 2nd where my talents as an SSB operator have been called for once again to sneak our QRP signals across the border into Canada. Hope to hear you all on line. In the meantime, I'm brushing up and polishing my CW skills so I can stop coloring in

areas on section maps and man the key. If you hear me online from time to time, shout back and tell me how I'm doing. Who knows? At this rate I might even rack up enough QSL cards so I don't have to paint the walls of the sunroom in my apartment where I keep my computers and my rig.

SSB: 18
CW: 35
Digital: 46
VHF/UHF FM: 3

Overall score: 900 73,
Bonus Points: 150 Jackie Cornwell
Total: 1050 ACØCA

...AND THE WINNER IS...



Paul Moraine NØPWM with his well planned and executed installation. Safety was evident in all parts of the installation. Functionality was excellent and workmanship reflected much forethought and pride. Of course, it didn't hurt that Paul brought his brand new work truck, scoring a handy 77 out of 90 possible points. Second place was a three way tie between Mike Allison KØMLA, Mike Stansberry KØTER and Jeff Ryan KØRM. However, no score was lower than 62, proving the Front Range hams have a lot to be proud of.

Don't forget next month's Handi Talkie competition. Entrants will be judged by weight with prizes going to the heaviest and the lightest.

PPRAA BOARD MEETING MINUTES**19 June 2006**

Attendees: Christopher NC6T, Mike KØMLA, Jim ABØUK, Mike WV7T, John KCØJFH, Paul NØPWM, Su KCØPRN

Christopher called the meeting to order at 7 PM.

The minutes were approved as corrected.

Correction: Jim ABØUK said OEM Parts when he actually meant Centennial Electronics, with regard to Megafest door prize donations and flyer distribution.

REPORTS: Treasurer's Report - Jim ABØUK reported the total balance in our 3 accounts was \$5839.94 as of 6/19/2006. We paid \$552.79 to Riley Hollingsworth for his Hamcon expenses. This is to be reimbursed back to us by the Hamcon 2006 organization.

Vice President's Report – Mike KØ0MLA outlined upcoming programs:

- Jul - Hamcon Overview - Jerry ADØA
- Aug – RF Interference
- Sep – BPL Update
- Oct – Election
- Nov – Emergency Preparedness – Su KCØPRN with Rob N7LV or Mike WV7T
- Dec – Christmas party

UNFINISHED BUSINESS:

Pike Peak Discovery 200th anniversary special event station - Mike KØMLA – planning for this activity is still proceeding with the Pioneers Museum. This will be on Saturday, July 15, 9 AM – 1 PM. Mike already has several volunteer operators signed up, but more are welcome. We will have a custom rubber stamp for the QSL cards.

Tech Ed Space Development: Mike WV7T – still cleaning out this area. We need to get club equipment over there to sort it out for retention or sale.

Club Picnic: Su KCØPRN - Sat, Aug 12, 11 AM - 3 PM at Dirty Woman Park in Monument.

Field Day: prep is going well.

NEW BUSINESS:

October Elections: board and officers need to

nominate candidates. Mike KØMLA volunteered to coordinate.

The meeting was adjourned at 8:09 PM

Next Board meeting: 7 PM, Monday, July 17 at The Remodeler

Submitted by:
John Wishart KCØJFH
PPRAA Secretary
22 June 2006

PRESIDENT:

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nc6t@arrl.net / 260-8081

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DIRECTOR:

Suisei Goguen KCØPRN
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DIRECTOR:

Paul Moraine NØPWM
pmoraine@msn.com / 638-0273

* In final year of 2-year term.

PPRAA CLUB MEETING MINUTES

14 June 2006

President Christopher Taylor NC6T called the meeting to order at 7 PM in the El Paso County Health Department Auditorium, followed by introductions around the room.

Silent Keys: None.

Minutes were approved as printed in the Zero-Beat.

Treasurer's Report: Jim ABØUK reported that we had a \$5715.97 total balance in our three accounts as of 6/11/2006.

Special Program

Jeff KØRM introduced ARRL Chief Operating Officer, Harold Kramer WJ1B, who presented a review of ARRL activities in the areas of public service, education, membership and advocacy.

Awards: Jim ABØUK presented the Hammie to Patrick KCØMIR for his PPIHC and ARES activities.

Mobile Installation Contest:

Judge, Jim ABØUK
Nine hams took part. Paul NØPWM won for best installation.

HT Contest next month at the club meeting, heaviest and lightest HTs.

Tech Education: Mike WV7T – First Ham Radio Breakfast was held June 3 at the Country Buffet. Frank McNally and Mike are advocating the formation of an Education Advisory Committee. Contact Mike if you are interested in this at WV7T@arrl.net. Field Day activities will also be available at Mike's house.

Megafest planning meeting is 9 AM, June 17, at The Remodeler

Next board meeting is 7 PM, Monday, June 19, at The Remodeler.

Field Day Preparation Program:

Dan KBØPPM – next weekend, June 23, 24, & 25, at Sourdough Valley, north of Woodland Park. See www.ppraa.org for details.

Special Event Station: Pikes Peak Discovery - July 15, info on our website.

Next Club Meeting: 7 PM, Wednesday, July 12 at the El Paso County Medical Department Auditorium.

Submitted by:

John Wishart KCØJFH
PPRAA Secretary
22 June 2005

PPRAA PICNIC

THE TRADE WINDS ARE BLOWING!

Once again the PPRAA annual picnic will be held at fabulous Dirty Woman Park in Monument. This year **WE'RE GOING TROPICAL** so keep those *Aloha shirts* handy! The club will provide hot dogs, burgers, buns, condiments - and- dessert. We are asking members to bring *side dishes and a six pack of favorite soft drinks to share*. Coffee and donuts will be available starting at 9 AM for an informal tailgate swapfest. Lunch should be ready about 12 PM. The date is Saturday, Aug 12th.

- ✓ A–I: cold salads (potato, macaroni, or egg salads, cole slaw, etc).
- ✓ J–R: hot side dish (baked beans, potato casserole, Mac-n-cheese, etc.)
- ✓ S–Z: green or fruit salad.

We'll have a few door prizes and a contest or two (points awarded for Aloha shirts & leis—think tropical). See you there.

Su KCØPRN

PPRAA PRESIDENT'S CORNER

The PPRAA was well represented last month at Hamcon Colorado 2006 in Estes Park. I believe everyone had a great time and are all looking forward to Hamcon next year. Thanks to everyone who took time away from activities to spend some time at the PPRAA table to help with Megafest raffle ticket sales. We were very successful thanks to your efforts. If you weren't able to make it to Hamcon this year, don't despair. Come down to the club meeting this month where our own Jerry ADØA will present Hamcon highlights to the club.

July is here and that means it's time for the Megafest. The last planning meeting was held and now the Megafest committee is hard at work making the final arrangements for what promises to be a spectacular event on Saturday July 8th. Do you have radio gear taking up space in the shack and not being used? Gather it up and haul it to the Megafest. Rent a table for \$15 at the door and display your wares for eager buyers to see and take home. Megafest vendor may set up as early as 6 AM and take advantage of the opportunity to see what the other vendors are selling before 8 AM when the public is admitted. In the past, good deals have been struck between vendors before the doors officially open.

This year a Megafest raffle buys you the chance at three exciting new radios. Third prize is Yaesu's new tri-band hand-held, the VX-6R. This neat little radio will have you chatting on 2-meters, 1.25-meters (the 220 MHz band) and 70-centimeters. It is built to last and will even survive a quick dip in the water. Once again, the Cheyenne Mountain Repeater Group generously donated a radio for second prize. Be sure to thank a member of that group if you get a chance—or if you are also a CMRG member, take our thanks. This year, CMRG donated Yaesu's FT-8800R dual band dual-receive mobile transceiver. You can work any combination

of the 2-meter and 70-centimeter bands with this great radio, i.e., 2 & 70, 2 & 2, or 70 & 70. Finally, our grand prize this year is the Yaesu FT-897D all-mode multi-band portable transceiver. This compact radio will get you on the air on each amateur radio band from 160-meters through 2-meters, and on 70-centimeters. You can run it in the field on batteries or with a power supply in your shack. It only takes one ticket to win. Be sure to get yours at the Megafest.

In addition to the swap fest aspect of the Megafest, the PPRAA VE team will conduct a license testing session at 10 AM. Thinking about upgrading your license? Why not take the test at the Megafest?

Just one week after the Megafest, the PPRAA will be taking part in the celebration of the 200th anniversary of the expedition that brought Zebulon Pike to the mountain that would eventually bear his name. Club vice president, Mike KØMLA is coordinating a special event station that will be set up near the city's festivities downtown at Acacia Park on Saturday, July 15th. We are setting up an HF station and operating from about 9 AM - 1 PM. If you'd like to participate in this event, let Mike know by phone at 719-590-4812 or by email at k0mla@arrl.net.

July promises to be an exciting month for the club. I hope to see you soon at some of the club activities.

73,
Christopher
NC6T

Jess Miley**KØTAA**719 W. 7th, Florence, CO 81226

Amateur & Hobby Radio Products. We Trade.

Excellent Tech @ \$35 per hour Commercial rates higher / 719-784-3040

WILL BE AWOL MONTH OF SEPT 06. MIGHT MAKE IT BACK BY 9-20.

Please call before you drive.

MEMBERSHIP APPLICATION

All memberships are up for renewal at the end of the year. If you haven't renewed your membership yet, please use the form at the bottom of this page, and fill out all of the appropriate information so that the Membership Committee can update the records. Include your family so they can share the value and the fun. If you know someone interested in joining, make a copy for them or have them visit PPRAA on the web and download a copy of the PDF file at www.qsl.net/ppraa/membership.html.

| Membership Application for the Pikes Peak Radio Amateur Association, Inc. P.O. Box 16521, Colorado Springs, CO 80935-6521 | | | |
|--|---|--|---|
| Date: _____ | <input type="checkbox"/> New Member | <input type="checkbox"/> Renewal | In which activities would you like to participate? |
| Name: _____ | Field Day <input type="checkbox"/> | | |
| Address: _____ | Demonstrations <input type="checkbox"/> | | |
| City: _____ State: _____ Zip: _____ | Nets or round tables <input type="checkbox"/> | | |
| Call: _____ Class: N T + G A E Phone: _____ | Organize activities <input type="checkbox"/> | | |
| Mbr of ARRL? <input type="checkbox"/> Yes <input type="checkbox"/> No E-mail: _____ | Teach ham classes <input type="checkbox"/> | | |
| Additional Family Members to Join/Renew: | | Full Member \$15: <input type="checkbox"/> | |
| Name: _____ Call: _____ Class: _____ ARRL? _____ | Family Membership \$18: <input type="checkbox"/> | | |
| Name: _____ Call: _____ Class: _____ ARRL? _____ | Over 65 \$10: <input type="checkbox"/> | | |
| Name: _____ Call: _____ Class: _____ ARRL? _____ | Over 65 Family \$12: <input type="checkbox"/> | | |
| | | Associate \$12: <input type="checkbox"/> | |
| | | <i>Ø-Beat</i> Only \$12: <input type="checkbox"/> | |
| | | Donation to Club: \$ _____ | |
| | | Total Enclosed: _____ | |
| <u>MAKE ALL CHECKS PAYABLE TO "PPRAA"</u> | | | |
| Please indicate how you'd like your <i>Ø-Beat</i> delivered: | | | |
| (Defaults to standard hard copy in the event that NO check boxes are checked) | | | |
| <input type="checkbox"/> Standard hardcopy via U.S. Mail | | | |
| <input type="checkbox"/> As a PDF file attachment via e-mail, to help save a few bucks | | | |
| <input type="checkbox"/> I'll save the club a few bucks and download it from the Web! | | | |
| Circle your interests ⇒ HF / V/UHF / FM / SSB / Digital / DX / Contests / Technical / Hardware / Other _____ | | | |
| New and renewing members must submit a completed application form along with your check to the Treasurer. | | | |
| Please Type or Print Clearly! | | | |

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

First Class Mail

To: