



VOLUME 61 ISSUE 11

NOVEMBER 2011

ARRL AFFILIATED-SPECIAL SERVICE CLUB



THANKSGIVING THIS
MONTH

Nov Ham Breakfast

LOCATION

A Second Cup

13860 Gleneagle Drive
Saturday, 5 November 2011
Time is from 8:00-9:30 AM

COME ON OUT

November Club Meeting

The club meeting will be on November 9th (second Wednesday in November, at 7 pm at **Broadway Deli, 301 Garden of the Gods Rd.**

PPRAA Club Officers

President	Mike Derbort	KCØELG
Vice President	Dan Scott	WØRO
Secretary	Diana Nordstrom	KCØNPP
Treasurer	Pam Scott	WØPRS
Board	Tom Brereton	WØTOM
Board	John Wishart	KCØJFH
Board	Doug Neilsen	N7LEM
Board	Jim Bishop	KDØKQL
Board	Virgil Yost	NØXRS
Board	Kerrianne Dixon	KDØIPR
Ø-Beat Editor	Mike Anderson	WV7T

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

PPRAA on the Web!

PPRAA Website: www.ppra.org

PPRAA Web Forums: www.ppraa.forumotion.net

PPRAA Facebook Page:

Search for "PPRAA" and click "Like" (or visit <http://www.facebook.com/pages/PPRAA-Pikes-Peak-Radio-Amateur-Association/185833894769325?v=wall> if you don't use FB.)

For Ham Radio News Check Out This Site!

<http://ham-radio.alltop.com/>

PPRAA October Board Meeting Minutes

10 October 2011

Call to Order – meeting held at Dairy Queen as Daniel's Taco was closed for the Columbus Day holiday. Those present were – Michael Derbort, Gordon Dixon, Doug Nielsen, Diana Nordstrom (visitor), Dan and Pam Scott, John Wishart, and Tom Brereton.

Approval of the September board meeting minutes – John Wishart to send to board members the correct copy and we will review and approve via email.

Thanks to all board members for serving for the last year. Michael D. reported that he would run for election again. Diana Nordstrom was visiting to let us know that she would like to be on the board.

Committee Reports

- **By-laws Review** – Approved at last meeting, to be published in the next Ø-Beat
- **Treasurer's Report** - \$12,604.56
- **Social Networking:** Website Update? Doug is looking at the various options of tools to update the website easier.
- **Awards and Recognition:**
 - Plaque orders, COQP – not ordered yet. Will do that soon.

- **Scholarship Fund**
 - Donation request letter to go out this month. Any changes? Those present reviewed the letter and felt it was ready to for print.

New Business

- We are now Proud Sponsors of the 2012 Malpelo Island DXpedition. Call sign will be HKØNA.

Special Events

- **Christmas Party** – December 14th at Golden Corral – Powers and Palmer Park 6:00 pm. It was decided to get 2 Wauxon radios and other items if HRO is willing to give us discounts.

Open Positions

- **VE Coordinator** – Galen, AGØA has accepted the position. He will go over what it takes to be a VE examiner at the club meeting.
- **Historian** – Any candidates – no volunteers

Unfinished Business

- **Do we have a program?** – Yes, board elections and VE examiner details and request for more to sign up.
- **HAM Breakfast? Do we have conflicts? Yes, this is the same day as 285TechConnect's fall tech day. Pam to make up fliers to hand out at the meeting on Wednesday.**
- **Library Display** Have we found another library? – no update
- **Possible location for club station** – Update? – Potential member donation of up to \$2,000 for storage shed? No updates. Gordon to check out sheds with Lowes.
- **Possible location for club** – No change
- **Club Repeater** – Jim bishop is holding this.
- **Club Tower** – Need a team to help take down the tower.

Around the table – nothing added

Adjourn

NEXT BOARD MEETING: MONDAY, 7 NOVEMBER 2011. LOCATION: DANIELS TACO SHOP

PPRAA October Club Meeting Minutes

14 October 2011

Call to Order – meeting was held at Broadway Deli

Introductions (Around the room) – What have you done in the past month in Amateur Radio?

Silent Keys – none to report

Approval of the September club meeting minutes. It was decided we would post these in the next issue of Ø-beat for members to read and approve them at the November meeting.

Current Events

- **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. Gordon modeled his new shirt as an example.
- 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. J&C Images 719-471-0076
- **Malpelo Island Expedition** – We are now proud sponsors. – their call sign will be HKØNA, more info in next newsletter
- **CMRG Annual Meeting** – Please come out and support them, and consider joining 10/22 – Colorado College – 9:30 to 11:30 – Cache La Poudre and Cascade
- **285 TechFest** – 9 to 3, November 5th
- **Tower take down?** – October 22nd? – Jim Bishop is coordinating, contact him at notapope@hotmail.com
- **Antenna Repair** – NØMUD – This weekend – contact him directly if you can help.
- **Antenna Repair** – W6LVW – This weekend? Need Gin Pole?
- **Possible location for club station** –

We are making progress. We have a repeater donated; we need to get this on the air soon. We are looking at having two sheds on the property, one for storage and one for operating. Gordon Dixon shared prices he received from Lowes.

Committee Reports

- **Treasurer's Report - \$12,604.50 in the combined bank accounts**
- **Membership Report** – Please update your membership information. Working on modifying and improving membership benefits. Renewals coming up.
- **Scholarship Fund:** Letters going out in October.
 - Need \$1000 by March – The board voted to provide matching grant from PPRAA to donations up to \$500 to scholarship fund.
- **Contest and Awards Committee Report – Send in your scores ASAP**
- **Tech Ed** – we now have a location for holding classes. Contact Mike Anderson WV7T if you know of someone who needs licensing or upgrading assistance.

Upcoming Events

- **Christmas Party:** We have the Golden Corral at Powers and Palmer Park starting at 6:30pm December 14th **Note** new address this year.

Ham Breakfast - Saturday, 5 November 2011 Time is from 8:00-9:30 AM - A Second Cup, 13860 Gleneagle Drive

Thursday night net: Getting great turnout and participation meet at 28.390 and we move from there.

Open Positions

- *VE Coordinator – Galen Steele to take over January 1.* However, we need more VE's. .
- *Historian*

NEXT MEETING: WEDNESDAY, 12 OCTOBER 2011.
LOCATION: BROADWAY DELI.

Below is the list of board members/officers. After some discussion on how many members we could have, it was decided that we interpreted the bylaws that we could have 8 members plus 4 officers. (This was later discussed further after the meeting.)

Tom Brereton moved to approve of the list of board members and officers as named. Gordon Dixon second. Motion carried.

Position	Member	Call Sign
Board Member #1	Tom Brereton	WØTOM
Board Member #2	John Wishart	KCØJFH
Board Member #3	Doug Nielsen	N7LEM
Board Member #4	Jim Bishop	KDØKQL
Board Member #5	Virgil Yost	NØXRS
Board Member #6	Kerriane Dixon	KDØIPR
Board Member #7		
Board Member #8		
Officers		
President	Michael Derbort	KCØELG
Vice President	Dan Scott	WØRO
Secretary	Diana Nordstrom	KCØNPP
Treasurer	Pam Scott	WØPRS
Appointed Positions		
0-beat editor	Michael Anderson	WV7T

Respectfully submitted,
Dan Scott, outgoing Secretary

September Meeting Minutes September 14, 2011

President Mike Derbort called the meeting to order at 7:07PM, followed by introductions around the room.

No silent keys reported.

Dave/Mike moved/seconded to approve the minutes as published in the Zero Beat. Passed.

Old Business

PPRAA Logo Apparel

Embroidered items will be available shortly. You furnish the article to be embroidered.

Silk screened items are also available. Details will be published in Zero Beat.

COQP

This was held on Sept 3 and came off with many contacts made during the event.

Malpelo Island DXpedition

This group is soliciting donations to support the activity. Mike D/Mike A made/seconded a motion to donate \$500 to the DXpedition organization. A couple of questions were raised concerning the lack of connection to our club or to CO ham radio. Mike D. cited good publicity for our club as a major factor. Motion passed.

BARC Fest Hamfest

Longmont Fairground Sept 25

Frame Twisters MC Event

Working with the club and ARES team to determine support.

Elections

Elections will be held next month. If you are interested in an officer or board position, please contact an officer or board member to be placed on the slate.

Christmas Party

This event will be December 14 (the 2nd Wed) at the Golden Corral restaurant near Powers & Palmer Park behind the Wendy's.

Treasurer's Report

We have about \$14K in all accounts. A new account has been opened for the Scholarship Fund. About \$80 has been received so far. The scholarship will be for \$1K. Qualification requirements will be published in the Zero Beat. This is managed by the Foundation of Amateur Radio. A letter will be sent out this month soliciting contributions to support the scholarship.

Some changes will be made in the Megafest raffle ticket sales, table sales discounts, and other related financial policies to improve our profitability. This year's profit is tentatively \$500-600, pending receipt of the school rental bill.

Membership

Renewal time is coming up in December. Some changes in allocation/distribution of the dues is being considered. However, the amount will be the same (\$15 for individual membership).

Club Station

We have access to a 40' tower that will be taken down by our club members within a couple of weeks. We are also trying to obtain two storage sheds, one for asset storage, and one for an operating station. An RV or travel trailer is also being considered.

Ham Breakfast

Next Saturday, location TBD. Check on our website for details.

Thursday Night Net

Ten Meters, 28.390 MHz, Thursday nights, 7 PM

Open Positions

- VE Coordinator Position - This position is still open and available.
- Historian - This position is still open and available.

New Business

Awards and Recognition Program

Mike Anderson introduced the PPRAA Awards & Recognition Program which started 1 September 2011. The rules and forms are available on the PPRAA website. If you have any questions about the program, contact Mike at WV7T@arrl.net.

Survey – Mike Derbort passed out a survey form requesting input on club activities.

Bylaws Review

Mike Derbort. The changes were published in the Zero Beat. There were some changes suggested to the as-published changes. The changes mentioned below refer to changes made to the revisions as published in the Zero Beat, not to the original Bylaws. A vote was taken on each item separately.

- 1st item – passed as published.
- 2nd item – Change: removing the phrase “and who is responsible for all activities of the committee”. Passed as revised.
- 3rd item – article removed. Passed as published.
- 4th item – Membership committee. Passed as published.
- 5th item – Auditing committee. Passed as published.
- 6th item – Zero Beat Committee. Passed as published.
- 7th item – Special committee. Change: replace ‘all’ with ‘the specified activities’” Passed as revised.
- 8th item – Asset committee. Change: remove ‘publishing the list in Zero Beat’ to ‘available on request.’ Passed as revised.

The Bylaws update was completed.

The meeting was adjourned at 9:06 PM.

Respectfully Submitted,
John Wishart KCØJFH
Acting Secretary & Board Member

PPRAA Board Meeting Minutes 12 September 2011

President Mike Derbort called the meeting to order at 7 PM, 12 September 2011, at Daniel’s Taco Shop.

Attendees: Mike Anderson, Mike Derbort, Gordon Dixon, Doug Nielsen, Galen Steele, John Wishart

The August Board Meeting minutes were approved as published.

Committee Reports

Bylaws Review – Mike will present the updates for vote at the next club meeting.

Treasurer’s Report – No report; treasurer not present. However, it was noted that some

adjustments are planned for the Megafest raffle ticket pricing structure to encourage early purchase and improve our raffle ticket revenue.

Social Networking – No progress yet on website update.

COQP – the event occurred Oct 3, but no results are available yet.

Awards & Recognition – Mike Anderson stated that the Awards & Recognition Program rules have been completed and will be published in the Zero Beat and on our website.

Scholarship Fund - \$79.05 in fund so far. Donation request letters will be going out this month.

New Business

Malpelo Island DXpedition – this group has solicited donations to support the event. It will be presented to our membership at the next meeting for review.

Special Events

Frame Twisters Motorcycle Event – no further updates at this time. The request has been forwarded to the ARES team. No response received from either Frame Twisters or ARES.

Christmas Party – Will be the 2nd Wed. in Dec (Dec 14). Location is TBD.

Open Positions

VE Coordinator – Galen AGØA has accepted this position.

Historian – no candidates yet.

Unfinished Business

Programs – September: presentations on bylaws review and Awards & Recognition Program.

Ham Breakfasts – next one will be 1 Oct. Location is TBD, but will be available on our website.

Library Display – we are looking for another library location to set this up again.

Club Station Improvements – we are looking at a possible member donation of up to \$2000 for a storage shed or sheds. Two sheds are proposed: an 8’x10’ for storage and a 10’x12’ for operating.

Possible Location for Club – no change

Club Repeater – Jim Bishop is holding this equipment. Paperwork for frequencies is in progress.

Club Tower – need a team to help take down the 40’ tower. Planned for the coming weekend or 17 Sept.

Around the Table

Gordon: Embroidered Items – Galen/Doug moved/seconded to approve the embroidered logo sample. This is the logo that would be available for club members to have applied to their shirts, jackets, hats, etc. Passed.

Mike A.: did we have anyone to be recommended for ARRL recognition?

The meeting was adjourned at 8PM.

Respectfully Submitted,
John Wishart KCØJFH, Acting Secretary & Board Member

CHECK THIS OUT Multi-Use Radio Service

In the United States, the **Multi-Use Radio Service (MURS)** is an unlicensed [two-way radio](#) service similar to [Citizens Band](#) (CB). Established by the [U.S. Federal Communications Commission](#) in the fall of 2000, MURS created a radio service allowing for unlicensed (Part 95) operation, with a power limit of 2 [watts](#). The FCC formally defines MURS as "a private, two-way, short-distance voice or data communications service for personal or business activities of the general public." MURS stations may not be connected to the public telephone network, may not be used for [store and forward](#) operations, and [radio repeaters](#) are not permitted.

Frequencies

MURS comprises the following five [frequencies](#):

Channel	Frequency	Authorized bandwidth	Channel Name
1	151.820 MHz	11.25 kHz	N/A
2	151.880 MHz	11.25 kHz	N/A
3	151.940 MHz	11.25 kHz	N/A
4	154.570 MHz	20.00 kHz	Blue Dot
5	154.600 MHz	20.00 kHz	Green Dot

Because previous business band licensees who have maintained their active license remain [grandfathered](#) with their existing operating privileges, it is possible to find repeaters or other operations not authorized by Part

95 taking place. These are not necessarily illegal. If legal, such operations may enjoy primary status on their licensed frequency and as such are legally protected from harmful interference by MURS users.

Pikes Peak Ten Ten

Mike WV7T 10X-41660
Chapter Head

The Pikes Peak Ten-Ten chapter meets each Thursday night at 7pm local on 28.390 Mhz +/- . You do not have to be a 10-10 member to check in.

Ten-Ten website: www.ten-ten.org



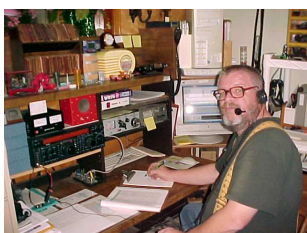
PPRAA Thursday Evening Net

Please join us for the Thursday Night 10-meter net. We meet at 7:00 PM (Local) on or near **28.390** then **50.125** USB. The goal of the net is for Technicians through Extra class operators to enjoy a weekly on-the-air chat. This is a great opportunity to meet local and out of state hams. We start on 10 meter SSB then go to 6 meters SSB. The net is informal, just jump in with your call and net control will get you on the list. One thing that is (almost) always asked for is a description of your rig, antenna system, and approximate location.

We give out 10-10 numbers!

Licensing

We now have a location for classes !



Mike Anderson, WV7T
wv7t@arrl.net
 719-229-8610

NEW CLASSES STARTING IN JANUARY!
Tech-General

“Now I have my license now what?”
After Licensing Training Available.

- [ARRL Store Discount Schedule-](#)

Below is a listing of the ARRL's most popular instructional materials. As an ARRL Registered Instructor I get a 25% discount and free shipping.

Item #	Title	Retail	Discount Price
0977	The ARRL Ham Radio License Manual , 2nd ed. © 2010	29.95	22.47
0847	ARRL's Tech Q&A , 5th ed. © 2010	17.95	13.46
8737	The ARRL Instructor's Manual , 5th ed. © 2011	19.95	14.96
8119	General Class License Manual , 7th ed. © 2011	29.95	22.47
8089	ARRL's General Q&A , 4th ed. © 2011	17.95	13.46

8874	Extra Class License Manual , 9th ed. © 2008	29.95	22.47
1379	ARRL's Extra Q&A , 2nd ed. © 2008	17.95	13.46
9728	Getting Started with Ham Radio , 1st ed. © 2006	19.95	14.96
9558	Basic Radio-Understanding the Key Building Blocks 1st ed. © 2005	29.95	22.46
0823	Understanding Basic Electronics , 2nd ed. © 2010	29.95	22.46
1155	Basic Electronics Course and Kit	55.00	41.25
0017	Modulation and Wave Fundamentals Board	69.00	51.75

30 Years Ago Ø-Beat November 1981

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.

Nikola Tesla Special Event November 5th

I am Hamilton Carter, KDØFNR. I'm working with a charity group in Shoreham, NY, the Tesla Science Center, who are working to purchase Nikola Tesla's last existing laboratory and restore it into a science museum.

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

To raise awareness of their efforts, they are hosting a Tesla conference at Brookhaven National Laboratory

here on Long Island on **November 5th, 2011**. To help raise awareness among ham radio folks, I'm helping to organize ham radio special event stations at Tesla related sites. The special event station W3T will operate from the grounds of the Wardencllyffe laboratory site in Shoreham. Another station, N3Y will operate satellite from the New Yorker where Tesla lived in Manhattan, and a third station, YUØTESLA will operate from the Tesla Museum in Belgrade, Serbia.

I'm hoping that members of your club might be interested in hosting a special event station on the same day there in Colorado Springs, where Tesla had a laboratory prior to Wardencllyffe. My parents were residents of Colorado Springs a few years ago. I noticed that there is a Tesla High School there in town. My mom used to work for Fountain Valley School just outside of town. Maybe a station could be setup at one of these two schools to introduce students to amateur radio?

Thanks for your consideration! Please let me know what you and your members think and what information or help I can provide.

73 de KDØFNR Hamilton Carter

POC Mike Anderson, WV7T

(WV7T will operate from home.)

NOVEMBER CONTESTS

November 2011

+ Ukrainian DX Contest 1200Z, Nov 5 to 1200Z, Nov 6

+ ARRL Sweepstakes Contest, CW 2100Z, Nov 5 to 0300Z, Nov 7

+ High Speed Club CW Contest 0900Z-1700Z, Nov 6

+ DARC 10-Meter Digital Contest 1100Z-1700Z, Nov 6

+ CWops Mini-CWT Test 1300Z-1400Z, Nov 9 and 1900Z-2000Z, Nov 9 and 0300Z-0400Z, Nov 10

+ RSGB 80m Club Sprint, SSB 2000Z-2130Z, Nov 9

+ WAE DX Contest, RTTY 0000Z, Nov 12 to 2359Z, Nov 13

+ 10-10 Int. Fall Contest, Digital 0001Z, Nov 12 to 2359Z, Nov 13

+ JIDX Phone Contest 0700Z, Nov 12 to 1300Z, Nov 13

+ OK/OM DX Contest, CW 1200Z, Nov 12 to 1200Z, Nov 13

+ CWops Mini-CWT Test 1300Z-1400Z, Nov 12 and 1900Z-2000Z, Nov 12 and 0300Z-0400Z, Nov 13

+ Kentucky QSO Party 1400Z, Nov 12 to 0200Z, Nov 13

+ CQ-WE Contest 1900Z, Nov 12 to 0500Z, Nov 14

+ SKCC Weekend Sprint 0000Z-2400Z, Nov 13

+ NAQCC-EU Monthly Sprint 1800Z-2000Z, Nov 14

+ NAQCC Straight Key/Bug Sprint 0130Z-0330Z, Nov 17

+ YO International PSK31 Contest 1600Z-2200Z, Nov 18

+ ARRL EME Contest 0000Z, Nov 19 to 2359Z, Nov 20

+ SARL Field Day Contest 1000Z, Nov 19 to 1000Z, Nov 20

+ LZ DX Contest 1200Z, Nov 19 to 1200Z, Nov 20

+ All Austrian 160-Meter Contest 1600Z, Nov 19 to 0700Z, Nov 20

+ Feld Hell Sprint 1600Z-1800Z, Nov 19

+ ARRL Sweepstakes Contest, SSB 2100Z, Nov 19 to 0300Z, Nov 21

+ RSGB 2nd 1.8 MHz Contest, C 2100Z, Nov 19 to 0100Z, Nov 20

+ EPC PSK63 QSO Party 0000Z-2400Z, Nov 20

+ Run for the Bacon QRP Contest 0200Z-0400Z, Nov 21

+ SKCC Sprint 0000Z-0200Z, Nov 23

+ CWops Mini-CWT Test 1300Z-1400Z, Nov 23 and 1900Z-2000Z, Nov 23 and 0300Z-0400Z, Nov 24

+ RSGB 80m Club Sprint, CW 2000Z-2130Z, Nov 24

+ CQ Worldwide DX Contest, CW 0000Z, Nov 26 to 2400Z, Nov 27

+ SARL Digital Contest 1300Z-1600Z, Nov 27

A and K Index

The Earth's magnetic field is continuously monitored by a network of magnetometers. These readings are converted into the A and K index values.

The K index is computed once every three hours (eight times a day) and the values can range from 0 to 9, with 0 being inactive, and 9 representing an extreme severe storm condition. The values are quadi-logarithmic.

- K = 0 Inactive
- K = 1 Very quiet
- K = 2 Quiet
- K = 3 Unsettled
- K = 4 Active
- K = 5 Minor storm
- K = 6 Major storm
- K = 7 Severe storm
- K = 8 Very severe storm
- K = 9 Extremely severe storm

The A index is linear, and is computed from the eight previous K index values. It ranges from 0 (quiet) to 400 (severe storm).

- A = 0 - 7 Quiet
- A = 8 - 15 Unsettled
- A = 16 - 29 Active
- A = 30 - 49 Minor storm
- A = 50 - 99 Major storm
- A = 100 - 400 Severe storm

Generally, propagation conditions are best when the A index is 15 or lower, and the K index is 3 or lower.

Besides causing auroral activity, high geomagnetic field conditions can affect the electrons in the ionosphere, reducing the maximum usable freq



MARC November VE Exam

The Mountain Amateur Radio Club VE Team will be conducting a VE session at 10 am on Saturday, November 5rd, 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:

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).
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 may 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

Ditz and Bitz

For Sale or Wanted

Have something to sell or trying to find something or just want to see something get to a good home? Send it in to wv7t@arrl.net and see it in Dits and Bits.

WANTED

3 or 4 magnet HF mobile antenna mount (similar to the picture)

Mike WV7T
229-8610
wv7t@arrl.net





Rhoda and I are thinking of going camping next year in our new truck and trailer. (Senior sized)



DX Dog Pile



Girl's night out bowling

WORD MATCH FOR CALLSIGNS NOVEMBER IS

C-O-A-X

WORK 4 STATIONS WITH THE FIRST
LETTER IN THE SUFFIX STARTING WITH
THE LETTERS C-O-A-X.

EXAMPLES:

N1C

AQ5OBV

AZ0ABC

AD9XPO

E-MAIL LOG INFO TO MIKE

WV7T @ ARRL.NET

JANUARY SIXTH:
A TENSE MOMENT
IN SAUDI ARABIA

TALK TO ME
ANDERSON.

Sir, 10 meters is open to North
America, 15 meters is open to
Europe, 20 meters is open to Asia,
weather is hot and dusty, and the
Broncos are up by 10.

W
V
7
T

1991
Gina

E R V K B Y U G X T I X B T S M
L H D J Q M H L A G B F B X M D
D G R O U N D W A V E B A E H T
D L H T A P G N O L Y T C T C H
T Z F V Q F Z M U S A H K X O E
R X T A T M V O Q E P X S Y S R
O E K U A R A O S R R E C J T M
P D N R B S P N S E O D A E O A
O N O O U X Q B H H P N T V P L
F I F R O Q C O O P A I T A S G
A K N A I Y T U R S G A E W N U
Z M J R W P L N T E A S R Y U W
Q S X L K A Q C S N T L O K S U
Q E F U F J B E K O I J I S F D
W C E I C L J T I I O L D S C J
J U Q H R R C G P L N Y W U L S

aindex
aurora
backscatter
groundwave
ionosphere
kindex
longpath
moonbounce

propagation
sfi
shortskip
skywave
sunspots
thermal
tropo

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: _____

Additional Name: _____ Call _____ Class _____ ARRL mbr? ☐ Yes ☐ No

Additional Name: _____ Call _____ Class _____ ARRL mbr? ☐ Yes ☐ No

Additional Name: _____ Call _____ Class _____ ARRL mbr? ☐ Yes ☐ No

E-mail address: _____

Do you want your newsletter delivered via e-mail in PDF Format? _____ ☐ Yes ☐ No

Are you an ARRL member? ☐ Yes ☐ No

One year membership rates, prorated, January through December:
 (See schedule at bottom)

- | | |
|--|---|
| <input type="checkbox"/> Full Member - \$15.00 | <input type="checkbox"/> Family Membership (same address) - \$18.00 |
| <input type="checkbox"/> Full Member over 65 - \$10.00 | <input type="checkbox"/> Family Membership (both over 65) - \$12.00 |
| <input type="checkbox"/> Associate Member - \$12.00 | <input type="checkbox"/> Newsletter only \$12.00 |

Please check activities for which you would volunteer:

- ☐ Field Day ☐ Hamfest ☐ Hospitality ☐ Public Relations
☐ RFI Committee ☐ Radio demonstrations
☐ On-Air Nets/Roundtables ☐ Teach potential hams about ham radio (Elmering)
☐ Special Event Communications (walks, foot races, bicycle races, etc.)

Your Interests:

- ☐ HF ☐ VHF/UHF ☐ Contests ☐ Technical ☐ FM ☐ SSB ☐ Pub Svc/Emergency Comm
☐ Digital ☐ DX ☐ Hardware ☐ _____ ☐ _____ ☐ _____

	Jan- Mar	Apr-June	Jul-Sep	Oct-Dec
Full:	\$15.00	\$11.25	\$7.50	\$3.75
Family:	\$18.00	\$13.50	\$9.00	\$4.50
Senior:	\$10.00	\$7.50	\$5.00	\$2.50
Sr Fam:	\$12.00	\$9.00	\$6.00	\$3.00
Associate:	\$12.00	\$9.00	\$6.00	\$3.00

Please Note: You must submit a completed application form along with your check to the Treasurer for both new members as well as renewals. Thank you. PLEASE TYPE OR PRINT CLEARLY!

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

To: