

**PIKES PEAK  
RADIO AMATEUR  
ASSOCIATION  
(PPRAA)**



**Activities/Meetings**

- HAM breakfast will be at: Crazy Otto's Diner, 4423 Centennial Blvd Saturday, 1 October  
Join us anytime between 8:00-9:30 AM  
All are warmly invited
- PPRAA Board Meeting  
Monday, 12 September
- PPRAA Club Meeting,  
Wednesday, 14 Sept  
IHOP  
5749 Stetson Hills Blvd
- 10 Meter/2 Meter net  
Every Thursday 7:00 pm  
28.390 MHz—USB  
144.200 MHz-USB
- PPRAA Elections  
October club meeting

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**Volume 66 Issue 08-09**

**August-September 2016**

**Caroline Stanley—2016 Scholarship recipient**



Thank you for your generous support through the FAR scholarship award. This gift encourages me to continue my studies at Hardin-Simmons University as I pursue my goal of becoming a CPA.

I assure you that this gift will be matched by excellence and hard work.

The motivation to become a ham stems from my dad's great love for amateur radio. As a toddler, I remember hearing strange sounds emanating from his office, followed by great dialogues of technical expertise. By growing up in this environment plus attending incredibly fun field day weekends with tents and hot dogs, topped with homemade desserts and all you can drink sodas, I found myself encapsulated with this hobby. Thus, as a 6th grader, I studied with my entire family to become a licensed radio operator and passed the exam with them. To add to that, by sharing highlights and pictures of club events, I enjoy mixing with fellow young people to create another legacy of operators in my generation.

With the current technological advances in cellular reception, my peers tend to think that radio communication is outdated; however, as any ham knows, when electricity fails, an operator is at his best as he implements his emergency power plan and focuses in as a necessary center of support and broad communication. Also, field day represents family and fun as we gather at the local fire station to garner a competitive edge in the national rankings. Of course, we enjoy hearing from fellow hams each year while we fellowship over snacks and burgers at this annual event.

In the future, I hope to serve in local marathons as I am also an avid runner and

enjoy supporting benefits and clubs in the area. To sum up, ham radio remains an all-around community sport that undergirds fond memories and future community action.

I am currently pursuing a BBA Accounting with a minor in Honors Studies at Hardin-Simmons University in Abilene, Texas, planning to graduate in December 2016. As my life work, I intend to impact the international business arena in financial accounting as a CPA. Specifically, my interests lie in both public accounting and managerial accounting. In these, the opportunity to invest real financial assets and to actively participate in the marketplace demands not only critical thinking skills but also dynamic people skills, two of my strongest traits. To accomplish this, I will pursue an auditing internship with KPMG this spring with plans to join the firm and obtain my CPA license upon completion of the program.

**Who I am:**

- An avid runner - completed a half marathon in April 2015, a full marathon in January 2016, and am now planning to run another full marathon in December.
- An avid violinist - music has and always will be a critical component in the foundation of life. From Houston Youth Symphony to studying abroad in England, violin is my passion and allows me to give back to the community in many venues. This past year, I enjoyed leading the Hardin-Simmons University and First Church Celebration Orchestras as concertmaster and am looking forward to playing with the Abilene Civic Orchestra this Fall.

Sincerely,  
Caroline M. Stanley  
KE5WEK

**September Meeting topic**

The Topic for this month's meeting is:  
*FreeDV Plus: Adding Video to Voice*

Rick Peterson, WA6NUT (Buena Vista) will be talking about the use of Windows and Linux

FreeDV application. FreeDV allows any SSB radio to be used for low bit rate digital voice!

See you there, Wednesday September 14th.



## PPRAA Officers and Board of Directors

PPRAA Board of Directors consists of four elected officers, seven board members, as well as the past president (time limit dependent). The Ø-Beat editor is a board appointed position and is also a member of the board.

Officers include:

- ⇒ President
- ⇒ Vice-President
- ⇒ Secretary
- ⇒ Treasurer

To send board member's email, browse to the officers section of our website: <http://ppraa.org/about-ppraa/officers>

President	Raleigh Holcomb	N4HYF
Vide-President	Jim Bishop	KDØKQL
Secretary	John Wishart	NGØI
Treasurer	Rich Milligan	ADØNP
Board Member	John Bloodgood	KDØSFY
Board Member	Glenn Brodt	N3ULW
Board Member	Frank Roger	KB3PDT
Board Member	Pam Scott	WØPRS
Board Member	Jim Rader	KDØNQM
Board Member	Virgil Yost	NØXRS
Board Member	Mike Anderson	WV7T
Ø-Beat Editor	Dan Scott	WØRO
Webmaster	Doug Nielsen	N7LEM

## Online Resources

### PPRAA Website

<http://ppraa.org>

The PPRAA website is the cornerstone for club related information, events, and technical information.

In addition you can register, pay dues, and submit donations. Donations to the PPRAA college scholarship fund are managed by FAR Scholarship Committee

### Facebook / Google+

Follow activities as they unfold, or get reminders of upcoming events.

Links to both Facebook and Google+ social media sites can be found on the [PPRAA.org](http://PPRAA.org).

Or from each social media site search on: Pikes Peak Radio Amateur Association.

### PPRAA Forums

The PPRAA forums are intended to allow users to exchange ideas, ask and answer amateur radio related questions, and plan/discuss upcoming events.

This is a fantastic, but underutilized, tool. Check it out and register at:

[PPRAA.Forumotion.net](http://PPRAA.Forumotion.net)

## Monthly Activities

### Membership Meeting

Held the 2nd Wednesday of the month starting at 7:00.

IHOP  
5749 Stetson Hills Blvd  
(Just west of Powers Blvd)

NOTE: Many show up at 6 pm for kibitzing and grub.

### Board Meeting

IHOP  
5749 Stetson Hills Blvd  
Colorado Springs, CO 80906

6:30pm—8:00pm  
On the Monday preceding the membership meeting.

Board Meetings are open to all members.

### Ham Breakfast

Location changes monthly: Check [ppraa.org](http://ppraa.org) or table of contents, page 1 for the breakfast meeting location.

### 10 Meter/2 Meter Net

Every Thursday at 7pm  
Starts on 28.390 USB then transitions to 2 Meter SSB at 144.200 USB.



## 5...4...3...2...1: Readability Reports

By Dan Romanchik, KB6NU



I'm big on Twitter. It connects me to a lot of interesting amateur radio operators, and I find a lot of food for thought there. Yesterday, I saw the following Tweet:

Charlie – M0PZT @M0PZT

Blog updated: RST and Speed Matters <http://www.m0pzt.com/blog/rst-and-speed-matters/#hamradio>

Being a CW geek, of course I was interested. Charlie's point is that if you get a bad report, you probably should send more slowly. I certainly have no argument with that. What I do take a little bit of an issue with is that Charlie says, "A Readability 4 report should really make it known that information needs to be brief, but repeated – Certainly no ANT/RIG/WX waffle!"

According to most sources, Readability 4 means, "Readable with practically no difficulty." When I receive an R4 report, I might slow down a little, but it doesn't mean to me that I have to cut the contact short or repeat information over and over. I replied on Twitter that if the operator at the receiving station is having so much trouble copying, then the report should probably be 319 or even 219.

Of course, RST reports are open to interpretation. With that in mind, I thought I'd explain a little more fully how I decide what Readability report to give:

**R5:** Perfectly readable. To me, this means that copying a signal is no work at all, and that it sounds like it's coming out of a code practice oscillator. I can put my feet up on the desk or putter around the shack while I'm ragchewing with the other operator.

**R4:** Readable with practically no difficulty. "Practically no difficulty" is the key phrase here. There may be some QRN or QSB on this signal, and I have to pay some attention while copying. An R4 is still solid copy, though, and ragchewing is definitely possible.

**R3:** Readable with considerable difficulty. A signal that rates an R3 needs my full attention. I have to work at copying the signal, and even then, might miss characters here and there. Even though I don't copy every single character, I'm able to fill in the gaps. An R3 signal might not be good enough for a ragchew, and repeating information is probably a good idea.

**R2:** Barely readable, occasional words distinguishable. A signal that rates an R2 is usually so weak that it's below the noise level or drops below the noise level occasionally. At this level, the contact will definitely be brief and any important information, such as the callsign needs to be repeated.

**R1:** Unreadable. Generally, I would never give out this report, as I would never attempt making contact if a signal was truly unreadable.

Although my explanations above reflect the fact that I'm primarily a CW operator, I think they also apply to phone or even digital contacts. For example, an R5 for a phone contact would mean that the sounds like it could be coming from just down the street or coming through the local repeater.

What do you think? How do you decide what Readability report to give?

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Dan, KB6NU, is the author of the "No Nonsense" amateur radio license study guides, and blogs about amateur radio at: [KB6NU.Com](http://KB6NU.Com).

You can contact him by e-mailing: [cwgeek@kb6nu.com](mailto:cwgeek@kb6nu.com).

If you want an honest Readability report, look for him most evenings on 40m CW.

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## PPRAA Board Meeting Minutes 11 July 2016

Present: Raleigh Holcomb, John Wishart, Mike Anderson, Rich Milligan, Pam Scott, Jim Rader, Virgil Yost, Frank Rogers, Jim Bishop, John Bloodgood, Glenn Brodt, Dennis Major, Doug Nielsen

reimburse the Laurel VE team \$183.36 for their expenses. Passed.

The meeting was called to order by President Raleigh Holcomb at 6:30 PM at the IHOP Restaurant at Powers & Stetson Hills.

### 2016 Megafest

It was very well received by both attendees and vendors. There was some discussion about possible improvements to the PayPal website to try get people to pay for the admissions at the same time as when tables are bought.

Silent Keys: None

The previous meeting's minutes were not approved, they having vanished due to the secretary's not saving them properly.

We also discussed a need for improvements to signage directing vendors and attendees to the proper entrances.

### Committee Reports

#### Club Station

Need to dig hole for antenna installation. Need to buy the concrete and set a day for the activities. Tentatively set for 23 July to dig the hole (about 4' x 4' x 4'). Will need volunteers to assist with the dig.

### Elections

These will be coming up in October. Nominees are being sought for all positions.

Rich discussed that he had not been informed about the expense of the meal after the table setup at the high school. This has been a tradition for several years, but as a relatively new member, he was not familiar with it. After some discussion, he suggested that food be provided for people who come out for major work parties.

### Field Day

Mike estimated that we have accumulated at least 2728 points so far. We still have more to come.

It was moved/seconded to allow up to \$400 a year to be spent for work party food and refreshments. Passed.

### ARES Report

John Bloodgood reported on upcoming events. No fire activations as yet. Volunteers are still needed for events coming up.

### Megafest

Rich reported the following incomes and expenses from the event:

- ◆ Ticket sales: \$2,880
- ◆ Admissions: \$2,088
- ◆ Table sales: \$1,660
- ◆ Expenses: -\$2,625
- ◆ LPHS rental fee (estimated) -\$1,300
- ◆ 2016 Megafest net (estimated) = \$2,708

### Around the Table

Jim B - thanks to Jim for making the trailer ramp.  
Glenn - suggested that Sid KOARM be awarded a certificate of appreciation for his service on the Weather Net..

Jim R. - thanks to all for making the Megafest a success. Sold about half of the King Soopers gift cards.

Pam - thanks to Rich and Diana for getting the Megafest proceeds counted quickly.

Virgil - noted that AES amateur radio retailer is going under.

Next Board meeting: Monday, August 8, 2016, 6:30PM at the IHOP at Powers & Stetson Hills.

### Treasurer's Report

Rich Milligan reported that we had \$14,492.87 in our accounts as of 30 June 2016.

The meeting was adjourned at 7:34 PM.

We also discussed raising the dues to be able to upgrade our club station radio setups. This will be brought up at the Wed. meeting.

### VE Team Report

Dennis Major N0ABC requested reimbursement for the Laurel VE team expenses incurred by administering ham exams. These include paper, toner cartridge, rubber stamps, badges, laminator, and postage. Motion was made/seconded to

Respectfully submitted,

John Wishart NGØ1

PPRAA Secretary

24 July 2016

## PPRAA General Meeting Minutes—13 July 2016

PPRAA Business Meeting Minutes  
13 July 2016

The meeting was called to order at 7:00 PM by President Raleigh Holcomb at the IHOP Restaurant on Stetson Hills near Powers Blvd. Approximately 45 members and guests were present.

Silent Keys: None

Minutes of the previous meeting were approved as posted in the Zero Beat newsletter.

**Treasurer's Report** Rich Milligan reported that we had \$14,492.87 in our bank account as of 30 June 2016. \$2,708 was the estimated net from Megafest.

### Old Business

**Club Station** - will be having a work party July 23, 8 AM, to dig a hole for a new tower installation. We will be pouring concrete, but not until the dig occurs. Jim Rader suggested renting a power posthole digger. Motion was made/seconded to rent the posthole digger at a cost of about \$70. Passed. We also need to allow two weeks for the concrete to set for a total of three Saturdays (Dig hole, pour concrete, wait 2 weeks, then install antenna).

### 2016 Megafest

Event was quite successful and well-received by nearly all attendees. Tables sold totaled about 110. Jim Rader also reported that we will probably be able to have an Icom 7300 radio for the grand prize next year.

### Club Picnic

Sunday, Aug 28, at Bear Creek Park, pavilion #4. Club will provide meats and drinks. Remainder is potluck. Please bring a dish/salad/dessert/etc. to share.

### Field Day

Mike Anderson has submitted the logs for the event to ARRL. Points estimate was about 2800.

### ARES Report

John Bloodgood reported on several recent ARES activities. PP Bicycle Hill Climb, PP Ascent, PP Marathon are upcoming. Volunteers are still needed for these events. Register for events on the PPARES

websites, [ppares.net](http://ppares.net) or [ppares.org](http://ppares.org). The Amateur Radio Parity Act (HR 1301) has been passed out of committee and is going out to the full House of Representatives for a vote.

### King Soopers Gift Cards

These are available for \$5 from Jim Rader. Each card is pre-loaded with \$5 and may be reloaded for purchases at King Soopers. Our club gets \$250 for every \$5,000 spent at King Soopers.

### Program

Doug Nielsen discussed using the Raspberry Pi micro computer to operate a small, low-cost software-defined receiver. Title was "A Cheap Software Defined Radio (SDR) Receiver." Doug also demonstrated several aviation tracking programs available as PC programs and smartphone apps.

### Upcoming Events

Next Board Meeting: 6:30PM, Monday, August 8, 2016, at IHOP Restaurant at Powers & Stetson Hills.

Next PPRAA regular meeting: 7PM, Wednesday, August 10, 2016, also at the IHOP Restaurant.

The meeting was adjourned at 9:00 PM.

Respectfully submitted,  
John Wishart NGØ1  
PPRAA Secretary  
24 August 2016





## PPRAA Board Meeting Minutes 8 August 2016

Present: Raleigh Holcomb, John Wishart, Mike Anderson, Rich Milligan, Jim Bishop, Pam & Dan Scott, Jim Rader, Virgil Yost, Frank Rogers, John Bloodgood, Glenn Brodt, Doug Nielsen

The meeting was called to order by President Raleigh Holcomb at 6:30 PM at the IHOP Restaurant at Powers & Stetson Hills.

Silent Keys: None.

The previous meeting's minutes were approved as published in the Zero Beat.

### Treasurer's Report

Rich Milligan reported that we had \$14,052.35 in our accounts as of 31 July 2016. We have not yet received the final invoice from LPHS for the gym/table rental.

### Committee Reports

Club Station - the holes for the tower are dug. Concrete will be poured soon. More volunteers are needed for this task. There was some discussion concerning which antenna to install on the tower when it gets up. Antenna is TBD at this time. We do have a rotator already. We would also like to get another HF radio with CAT control and an auto-tuner for the club station.

### JOTA (Jamboree on the Air - Boy Scouts)

This event will be held October 15, 2016 at the El Paso County Fairgrounds events complex in Calhan. Our call sign will be 'W0J'.

### La Junta Radio Club

We would like to make contact again with the LJ club to work with them to get some young people started in ham radio. Volunteers will be needed to travel to LJ.

### ARES Report

John Bloodgood reported on upcoming events (Bicycle Hill Climb, PP Ascent, PP Marathon). Volunteers are still needed for these events.

**King Soopers Gift Cards** - up to \$2,300 now. Please use your card at KS.

**Wednesday's program** - Amanda Alden

### Elections

These will be coming up in October. Nominees are being sought for all positions. Board will be the nominating committee.

**Jim Rader** - Icom 7300 is a good choice for Megafest main prize. Moved/seconded to recommend spending up to \$3,000 for the Megafest prize budget. This is to be put up for approval at the club meeting. Passed.

Work Weekend - next Saturday morning at the club station to pour concrete for the tower base,

**Next Board meeting:** Monday, September 12, 2016, 6:30PM at the IHOP at Powers & Stetson Hills.

The meeting was adjourned at 7:34 PM.

Respectfully submitted,  
John Wishart NGØ1  
PPRAA Secretary  
23 August 2016

## PPRAA General Meeting Minutes—10 August 2016

The meeting was called to order at 6:55 PM by President Raleigh Holcomb at the IHOP Restaurant on Stetson Hills near Powers Blvd. Approximately 36 members and guests were present.

Silent Keys: None

### Minutes Approval

N/A; Minutes were not yet posted in Zero Beat.

### ARES Report

John Bloodgood reported on several recent ARES activities. PP Bicycle Hill Climb, PP Ascent, PP Marathon are upcoming. Volunteers are still needed for these events. Register for events on the PPARES websites, ppares.net or ppares.org.

### King Soopers Cards

Only twelve remain available for purchase. Get yours while they last! These are still available for \$5 from Jim Rader. Each card is pre-loaded with \$5 and may be reloaded for purchases at King Soopers. Our club gets \$250 for every \$5,000 spent at King Soopers. Currently at about \$2,300.

### Megafest Prizes

Board recommended we spend up to \$3K on the prizes. An Icom 7300 will be the main prize. Moved/seconded to spend not more than \$3K for raffle prizes for Megafest 2017. Passed. Jim Rader requested suggestion for prizes.

### Radio for Club Station

Tabled until next meeting.

**Treasurer's Report** Rich Milligan reported that we had \$14,048 in our bank account as of 31 July 2016. Haven't received a bill from LPHS as yet.

### La Junta Radio Club

We would like to help this organization get going again. It was suggested that we combine this meeting with the Hiram Percy Maxim Special Event and/or a special activation of Bent's Old Fort location.

### Deep Space Exploration Society

The organization is having an open house this weekend at the NM dish site. Look up 'DSES' on Google Maps for the location.

### Old Business

Club Station - will be having a work party this Saturday, August 13 to pour concrete for a new tower installation.

### Club Picnic

Sunday, Aug 28, at Bear Creek Park, pavilion #4. Club will provide meats and drinks. Remainder is potluck. Please bring a dish/salad/dessert/etc. to share.

### CO QSO Party - coming up on Saturday,

September 3. See [www.ppraa.org/COOP](http://www.ppraa.org/COOP) for details. PPRAA is the sponsor of this event. Please participate if you can!

### Program

Amanda Alden, K1DDN ARES Emergency Coordinator from NM and Ham Nation webcast broadcaster.

We participated in a live webcast on Ham Nation via Twit.tv (TWIT=This Week in Technology) with Dr. Bob Heil and Gordon West.

### Upcoming Events

Next Board Meeting: 6:30PM, Monday, September 12, 2016, at IHOP Restaurant at Powers & Stetson Hills.

Next PPRAA regular meeting: 7PM, Wednesday, September 14, 2016, also at the IHOP Restaurant.

The meeting was adjourned at 8:25 PM.

Respectfully submitted,  
John Wishart NGØ1  
PPRAA Secretary  
23 August 2016





**ISOTRON 80**

GET READY FOR THE FALL SEASON. THE EASIEST WAY TO OPERATE 80M!

DURABLE CONSTRUCTION

**CHOOSING A FEEDLINE**

Our high tech expensive radios can do many things. However, take the feedline away and it is next to useless. With so much depending on a piece of wire, it is good to know what the difference is in the many feedlines available.

One of the lowest loss feedlines is "Ladder Line" or "Twin Lead". Depending on the type, there is no measurable loss below 15 Mhz or 30 Mhz (See the graph below). At the same time it would be not advisable to use it over 150 to 200 Mhz.

One of the inconveniences of Ladder Line is the higher impedance. You can get 75 ohm twin lead, however, these usually start at 300 ohms. 450 and 600 ohm lines are common. This will require matching to the antenna and radio. It will take a different type of tuner to use this with our radios.

Also, it will not tolerate being close to any surface, even

wood. The twin lead needs to be stood off. There is hardware for this purpose.

Most of us use coax. There is quite a selection. As a rule, the smaller the diameter, the more the loss. RG-174 is only .1 inches in diameter. It has a loss of 5.5 db per every 100 feet at 30 Mhz. This type of coax is normally used for tight internal wiring.

A popular coax is RG-58. It is .195 inches in diameter. The impedance is 53.5 ohms. The loss at 30 Mhz is about 2 db per 100 feet. It is flexible, easy to handle and not as expensive as the bigger styles.

Jumping to a 9913 coax, the loss drops to .75 db per 100 feet at 30 Mhz. This coax comes double shielded, one of the reasons for the lower loss. It is .405 inches in diameter.

The graph below will give you an idea about several coax cables. There are "Hardlines"

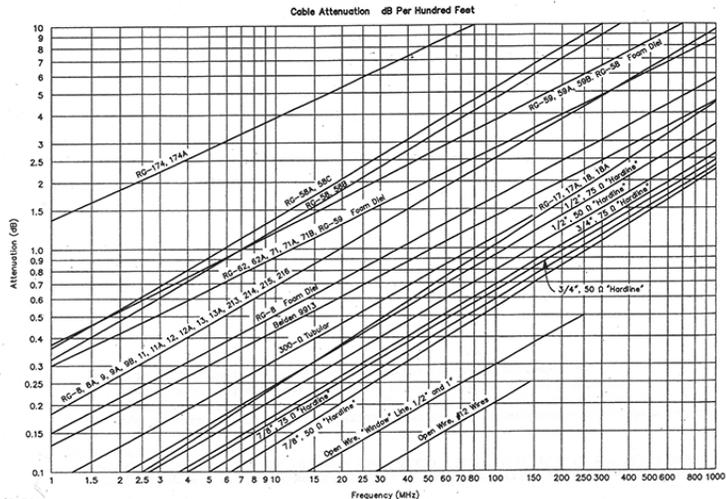
also. Bigger diameters, harder to work with and more costly, but low loss.

Keep in mind, the human ear is on a db scale. If you loose or gain one db of audio, you will hear the difference. Our radios on the average, ratio 6 db per 1 "S" unit. From this you can estimate how much loss you will notice in respect to the length of the feedline.

When shopping for coax, the seller normally will post the loss in db per length and frequency. If you are using it for HF, your losses will be almost unnoticeable. As you increase your frequency to VHF and UHF, it is important to use a lower loss coax.

**BILAL COMPANY**  
137 MANCHESTER DR.  
FLORISSANT, CO. 80816  
U.S.A

PH/FX: 719/687-0650  
[wd0ej@isotronantennas.com](mailto:wd0ej@isotronantennas.com)



—Nominal matched-line attenuation in decibels per 100 feet of various common transmission lines. Total attenuation is directly proportional to length. Attenuation will vary somewhat in actual cable samples, and generally increases with age in coaxial cables having a type I jacket. Cables grouped together in the above chart have approximately the same attenuation. Types having foam polyethylene dielectric have slightly lower loss than equivalent solid types, when not specifically shown above.

## WHAT IS IN A CAPACITOR? - PART 1

Capacitance, of course. What does that mean?

Suppose two flat metal plates are placed close to each other (but not touching) and are connected to a battery through a switch. At the instant the switch is closed, electrons will be attracted from the + plate to the + side of the battery. The same number of electrons will be repelled into the - plate from the - side of the battery terminal. Enough electrons move into one plate and out of the other to make the emf between them the same as the emf (voltage) of the battery.

If the switch is opened after the plates have been charged in this way, the + plate is left with a deficiency of electrons and the - plate with an excess. The plates remain charged despite the fact the battery no longer is connected. However, if a wire is touched between the two plates (shorting them) the excess electrons on the - plate will flow through the wire to the + plate, thus restoring electrical neutrality. The plates have been

discharged.

The two plates constitute an electrical "capacitor"; a capacitor possesses the property of storing electricity. (The energy is actually stored in the electric field between the plates.) During the time the electrons are moving, that is, while the capacitor is being charged or discharged, a current is flowing in the circuit even though the circuit is broken by the gap between the plates. However, the current flows only during the time of charge and discharge, the time is usually very short. there can be no continuous flow of direct current "through" a capacitor, but an alternating current can pass through easily if the frequency is high enough.

The charge or quantity of electricity that can be placed on a capacitor is proportional to the applied voltage and to the capacitance of the capacitor. The larger the plate area and smaller the spacing between the plate the greater the capacitance. The capacitance also depends upon the kind of insulating material

between the plates; it is smallest with air insulation, but substitution of other insulating materials for air may increase the capacitance many times. The ratio of capacitance with some material other than air between the plates, to the capacitance of the same capacitor with air insulation, is called the "dielectric constant" of that particular insulating material. The material itself is called a "dielectric". As an example, if a sheet of polystyrene is substituted for air between the plates of a capacitor, the capacitance will be increased 2.6 times.

A future article will go into more detail about capacitors.

73,  
Ralph WD0EJA  
Sept. 2016



### ISOTRON 80/40

I have been publishing this technical article since January of 2013. For the past 36 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

## PPRAA Elections of board of directors and officers—October 12th

The board of directors is looking for nominations for officers and multiple board positions. If you know of a good candidate, please let the board know by sending an email to:  
[boardmembers@ppraa.org](mailto:boardmembers@ppraa.org).

Officers are up for re-election annually. Officers include:

- President
- Vice President
- Secretary
- Treasurer



## VE Testing & Education—Colorado Springs (PPRAA)

Pikes Peak Radio Amateur Association (PPRAA)

**When:**  
Monthly  
2nd Saturday at 9 AM

**Location:**  
C21 Library  
1175 Chapel Hills Dr,  
Colorado Springs, CO  
80920

Directions available at:  
[ppraa.org/ve-testing](http://ppraa.org/ve-testing)  
or contact:  
Dennis Major  
VE@PPRAA.org



Mike Anderson, WV7T does personal and small group training for all license classes.

Mike also does Morse code training.

Mike can be reached at:  
719-229-8610  
[wv7t@aol.com](mailto:wv7t@aol.com)

## VE Testing Woodland Park (MARC)

MOUNTAIN AMATEUR RADIO CLUB (MARC)

**When:**  
Jan, Mar, May, Jul, Sep, Nov  
1st Saturday at 10 AM

**Location:**  
Woodland Park  
Woodland Park Library-  
Community Meeting RM  
218 East Midland Avenue

**Directions:**  
<http://www.nx0g.org/ve.html>  
or contact  
Wes Wilson (KØHBZ)  
[k0hbz@arrl.net](mailto:k0hbz@arrl.net)  
Call (719) 687-8758



## Applicants will need the following items:

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 or SOCIAL SECURITY NUMBER (now required - this includes children).
  3. Your CURRENT ORIGINAL amateur radio license (if any) and a PHOTOCOPY for the VE Team to keep.
  4. The CURRENT ORIGINAL 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. This covers all exams you wish to take at this VE session.
- Teams, is to not allow same day retests on failed exams.*
- PPRAA – Colorado Springs testing only:**  
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
- NOTE: PPRAA and MARC VE Team policy, as with many VE**

## Dayton—New venue

PPRAA,

In a couple of unofficial meetings where a plan B was thought about, one thing was always in concrete. The Hamvention would remain in the Dayton area. If push came to shove we were confident that we could find enough land that we could buy and then build the needed building(s). I really do not feel that we would ever let the Hamvention leave Montgomery Co.

73,

Dave N0EOP

(ed.: PPRAA member in Dayton)

### GREENE COUNTY FAIR & EXPO CENTER NEW HOME FOR DAYTON HAMVENTION®

XENIA, OHIO – The Greene County Agricultural Society Board of Directors in partnership with the Greene County Board of Commissioners, the City of Xenia and the Greene County Convention & Visitors Bureau is pleased to announce the Greene County Fair & Exposition Center will be the new home of the Dayton Hamvention®.

Since 1952 Hamvention has been sponsored by Dayton Amateur Radio Association (DARA). For many years it has been the world's largest amateur radio gathering, attracting hams from throughout the globe. Over 25,000 amateur radio operators and their families will descend upon Greene County and the entire Miami Valley for three days of camaraderie, education and exhibits. In 2017, the Dayton Hamvention will be held May 19-21.

“We are so excited to be working with the Dayton Hamvention® to bring an event of this caliber to the Fairgrounds and Expo Center. The collaboration between the Dayton Amateur Radio Association, the Agricultural Society and the local governments has been inspiring. Spend time with this group of professionals and volunteers and their passion for running a first class event immediately becomes abundantly clear. I'm so proud of the way the entire community has come together and embraced this endeavor,” said Alan Anderson, President of the Greene County Board of Commissioners.

The annual economic impact of the Dayton Hamvention® has been estimated at \$15 - \$17 million dollars. Hotels, restaurants, gas stations, local merchants, and the Greene County Agricultural Society will all directly benefit from the event.

Ron Cramer, General Chairman of the Dayton Hamvention® had this to say about the event: “We appreciate and value all the time and effort of the many partners, in particular the Greene County Agricultural Society, the Greene County

Board of Commissioners and the Greene County Convention & Visitors Bureau has put into helping Hamvention find the right venue to continue our long history here in the Miami Valley. We look forward to a long and mutually prosperous relationship.”

Michael Kalter, Official Spokesperson and CFO of Hamvention states that “this event attracts attendees from all 50 states and 60 countries worldwide each year with an estimated attendance of approximately 25,000.”

“The Greene County Agricultural Society is absolutely committed to providing a world class experience for the Dayton Hamvention® and its attendees, exhibitors, volunteers and staff,” said President of the Greene County Agricultural Society Board of Directors Dan Bullen. “We are so appreciative of the opportunity to host the event and the faith placed in us by the Hamvention leadership. This will be an enormous event for the Fairgrounds & Expo Center and we are confident the Hamvention will be a great success in 2017 and beyond due to the way the community has whole heartedly embraced this event. The City of Xenia, Greene County Board of Commissioners and the Greene County Convention & Visitors Bureau are incredible partners and we are very grateful for their assistance.”

The Greene County Fair and Expo Center located in Xenia, Ohio is a 501 non-profit, multi-purpose, 38 acre complex specially designed for fairs, concerts, meetings, convention/trade shows, sporting and livestock events.

“The City of Xenia is looking forward to the 2017 Dayton Hamvention® being held within the greater Xenia community. We will be working closely with all the planning partners as well as with business owners and residents to warmly receive the convention and conventioners to our city,” said Brent Merriman, Xenia City Manager.

“The decision made by the Dayton Hamvention® Leadership to keep the event in the greater Miami Valley is a huge win-win for the entire region. We are extremely excited to work with the Greene County Expo Center, the Dayton Hamvention® team and all of their volunteers to guarantee the success of Hamvention in 2017 and for years to come. We fully expect this to be a five star event!” said Kathleen Wright, Executive Director of the Greene County Convention and Visitors Bureau.

Visit us online at [www.xwarn.net](http://www.xwarn.net)

**PIKES PEAK RADIO  
AMATEUR  
ASSOCIATION**

Send membership application to:

Pikes Peak Radio Amateur PO  
Box 16521  
Colorado Springs, CO  
80935-6521

**General Questions:**  
ppraa@ppraa.org

**ØBeat:**  
zerobeat@ppraa.org



**ppraa.org**

**Get Radio Active, get on the air!**

## Membership Application:

Date: \_\_\_ / \_\_\_ / \_\_\_ New Membership: Yes / No

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

Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Call: \_\_\_\_\_ Class: \_\_\_ Phone # (\_\_\_\_) \_\_\_\_\_

Email: \_\_\_\_\_

Are you a ARRL member: Yes / No

Additional Family Members:

Name 1: \_\_\_\_\_ Call: \_\_\_\_\_ Class: \_\_\_ ARRL Member: Yes / No

Name 2: \_\_\_\_\_ Call: \_\_\_\_\_ Class: \_\_\_ ARRL Member: Yes / No

Name 3: \_\_\_\_\_ Call: \_\_\_\_\_ Class: \_\_\_ ARRL Member: Yes / No

\_\_\_ \$15.00 Full Member

\_\_\_ \$10.00 Full Member over 65

\_\_\_ \$18.00 Family Membership

\_\_\_ \$12.00 Family Membership over 65

\$\_\_\_ Membership Amount

\$\_\_\_ Scholarship Fund Donation

\$\_\_\_ PPRAA General Fund Donation

\$\_\_\_ Total

## 2015 Scholarship Fund

This last year the donations to PPRAA Scholarship Fund have been slipping.

The scholarship is for a hard science or math related field of study. Those fields of study are, or are similar to, Physics, Chemistry, Math, Electrical Engineering, Bio Engineering, etc.

There are many ways to make your tax deductible donation to this fund. Contributions may be made via:

⇒ [PPRAA website \(http://ppraa.org\)](http://ppraa.org)

⇒ Part of your membership renewal,

⇒ Club meetings and event.

⇒ Directly to the fund at:  
FAR Scholarship Committee  
P.O. Box 911  
Columbia, MD 21044

**Make checks to:  
PPRAA Scholarship**

## Ø- Beat Banner

This photograph of Pikes Peak from Fountain, CO was taken by Pam W0PRS, May 1st 2016.

The theme of the banner is Pikes Peak Region which include PPRAA activities.

If you would like to submit pictures for the Ø-Beat banner, please send them to:  
[zerobeat@ppraa.org](mailto:zerobeat@ppraa.org)

Please Include "[Ø-beat]" as part of the subject line.