



# PWARC NEWSLETTER – November 2014

## Presidents Report:

October was another good month with our members active in several activities. Amateur radio was again well represented at the Tanner Gun Show producing 17 persons interested in working toward their Technician License. Don KC7JZV, Curtis KDØHIY and Gary ADØHC volunteered to be teachers. Classes will be held in conjunction with the Pueblo club this fall. Congratulations also to Devin KDØYZO, John KDØJMC and many other local and regional hams for the successful balloon launch and its resulting data on October 25th. See full article on Page 2 in this newsletter.

We had 20 members attended the October meeting in which we passed the revised Bylaws, adopted a logo, decided upon a club shirt color, and voted to move our meeting times on the 3<sup>rd</sup> Saturday to the morning instead of the afternoon. More information regarding buying the shirts and the specific schedule of Club meeting will be available at our next meeting on November 15th.

Another successful activity was an ARES SET exercise involving some of our Club members. Our regional ARES organization is growing, becoming more involved with exercises and training. If you are interested in becoming involved, contact Neal KDØMBL. Looking forward to seeing all of you at our breakfast and ragchew this Saturday morning.

Frank, KDØWEA

## ARRL November Sweepstakes

CW is November 1 - 3

SSB is November 15 - 17

They both

Start 2100 UTC Saturday

End 0259 UTC Monday

**Objective:** For stations in the United States and Canada (including territories and possessions) to exchange QSO information with as many other US and Canadian stations as possible on 160, 80, 40, 20, 15 and 10 meter bands.



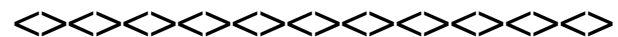
## CQ WW DX Contest Date

CW: November 29-30, 2014

Starts: 0000 UTC Saturday

Ends: 2359 UTC Sunday

The CQ WW is the largest Amateur Radio competition in the world with over 30,000 participants. Anyone needing the logging software for this contest - please contact Jim NE0DA or Paul KBØJIT



## ARRL Renewal

Any members renewing their ARRL membership renewal through the Club, in so doing the Club will get \$2.00, anyone new joining will bring in \$15.00.

For anyone joining ARRL for the first time if they join through the Club, please make a check to ARRL for \$24 and one to the Club for \$15.00. You may contact the Treasurer or Secretary.

## EOSS-202 Balloon Flight

Our own Devin Conn KDØYZO flew his payload on the Edge of Space Sciences balloon flight 202 this Saturday morning, October 25.

It launched from Deer Trail east of Denver and landed about 65 miles ENE from there, having attained a max altitude of 102,800 feet! All payloads were recovered intact, “Payload looks great!” said the Conn’s.

KDØYZO and his dad, Dr. John Conn KØJMC are members of PWARC.

This flight was a combined STEM School and Academy project, and all 7 payloads were designed and constructed by students ranging from grade school through high school. It included 3 payloads from Douglas County schools, 1 from the Boulder Young Amateurs, 2 from the New Mexico STEM program—and Devin, who is a Corwin International Magnet School student. (Details can be found at [eoss.org](http://eoss.org))

Devin’s payload measured the changes in sound propagation with altitude and depleting atmosphere. It consisted of a tone generator with transducer, and a digital recorder with mike that also placed time-stamps. The transducer and mike were separated within the package at a specific distance so as to accurately record the changes during flight. It was powered with a lithium-ion battery, which is best able to withstand the

extreme cold. The maximum allowable weight for his payload was 300 grams, and he came in under that. Once they have the payload back home, the recording will be fed to an oscilloscope for analysis and comparison against the flight time-stamps versus altitude.

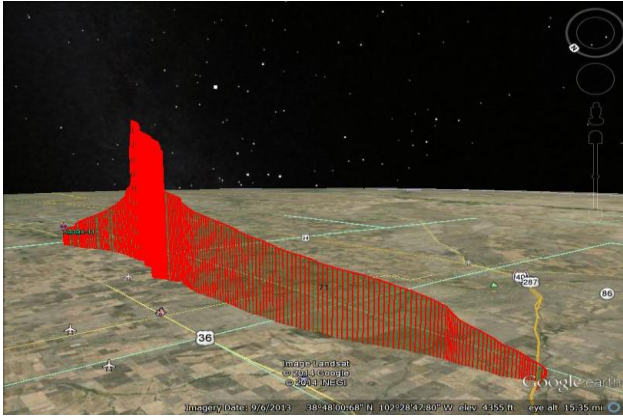
During the flight, one of his exclamations was simply “Awesome!” And, they maintained a visual while the balloon was at maximum height! The chase and recovery crew chaperoned all of the students following beneath the balloon to the landing scene, where they retrieved their payloads. Word was “Payload looks great!”



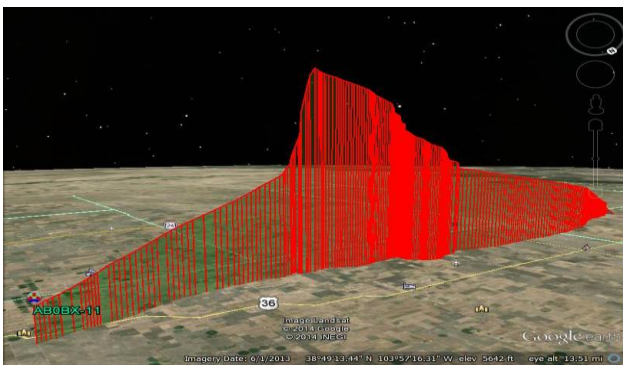
## Congratulations Devin!

*(L to R) Dr. John Conn [dad], Gracie [sis], Devin [Edge of Space Pioneer], Joanie [mom], Tess Finan [visitor-friend from Monument]*

## EOSS-202 Balloon Flight - Continued



Flight Path and Relative Altitude, looking southeast. Launch was at lower right, last beacon and landing 65 miles east, on left.



Flight Path Looking Southwest, max altitude was about 102,800 feet. Launch is small tail at extreme-right, final beacon is on left when it was still above 10,000'.



View Looking North

I-70 and Deer Trail launch point on left. Actual landing site was several miles ENE or right of the last beacon, in open country.

## NOVEMBER PROGRAM

Tentatively, it will be a Devin KDØYZO & John Conn KØJMC power-point on their payload, pre-flight and flight experience with EOSS-202. If their schedule prohibits them from being ready, Gary ADØHC will present "Inexpensive Indoor Antenna for Use During Storms."

## Net Report:

October 25, 2012--right about 2 years ago--I got back into ham radio. I'd been off air 10 years. But that day, I emailed WA0KAQ; and within 4 hours, he'd gotten the machinery going to get me back on the bands. And I have enjoyed my 2 years--so far--with PWARC.

I've been Net Manager since early 2013. I hope I haven't caused too much trouble; hi! Now that ARES and Skywarn are hitting their strides here, I've been working on readjusting our scripts a tad. I hope to keep things as user-friendly as possible. So many of you have done so much for me; and I hope to do half as good for you all!

As the cold temps come a-roaring in--let our Tuesday-evening nets warm you up, with their fellowship and information.

73 for now, from W00JW!



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### Nets:

**Each Tuesday – 7:00 p.m.** First session of the PWARC net on the Royal Gorge Ham Club repeater at Canon City (145.490 [-] PL103.5).

**Each Tuesday - 7:30 p.m.** Second session of the PWARC, 146.445 MHz FM simplex. Alternate frequency, 146.430 FM simplex.

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### **Ragchew**

Join us on Saturday November 1<sup>st</sup> at the ragchew for good food and good conversations. First Saturday each month at 9:00 a.m. at the Hen House.

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### **CAN YOU HELP**

We need volunteers to give presentation forums of 30-45 minutes in length during the 2015 period. These forums can be on any subject and shown in any format. One easy method is to share handouts and simply speak on your topic of interest. However, you can go so far as a Power-point presentation, hands-on demonstration or videos, etc. Everyone has something of value to share, so please call or see Gary ADØHC to sign-up.

### Mark Your Calendar:

**Saturday – November 1<sup>st</sup> – Ragchew**  
9:00 a.m. at the Hen House Restaurant, 394 S Joe Martinez Blvd. for breakfast or just coffee, it's up to you.

**Saturday – November 15<sup>th</sup> - Meeting & Testing at the Pueblo West Library**

**12:00 p.m. – 2:00 p.m.** VE session at the Pueblo West Library.

**2:00 p.m.-** Program – payload, pre-flight and flight experience with EOSS-202

**3:00 p.m. –** Club meeting, Nominations for next year's Board of Directors.

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### **AMATEUR RADIO EMERGENCY SERVICES**

If you would like information on ARES contact **Neal KDØMBL ARES 5, District 2, Emergency Coordinator.**

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### **Ham Radio Sale Estate of James Taylor KG5LB Silent Key**

1st Sale, Saturday Nov. 1, 2014  
2nd Sale, Saturday Nov. 15, 2014  
Hours 10:00 a.m. to 2:00 p.m.  
Unit 623 J & L Self Storage  
(Side toward McDonalds)  
1285 Trinity Drive  
Los Alamos, NM