

CRACKLIN' STATIC



SIERRA NEVADA Amateur Radio Society

Serving the Amateur Radio Community since April 16, 1968

<http://www.snars.org>

RENO, NEVADA

AUGUST 2016

PRESIDENT'S VOICE

The month of July is a fairly quiet month for SNARS and only had a couple of activities this month. We attended the Churchill Ham Swap and seemed to be a successful first start to most likely to an annual event sometime in July. SNARS also was present for the Ham&HiFi open house where we operated on HF and had our SNARS tent on display. Lots of free things were on hand and was almost gone by the end of the event. We thank Ham&HiFi for their hospitality and their support of SNARS and the amateur radio community.

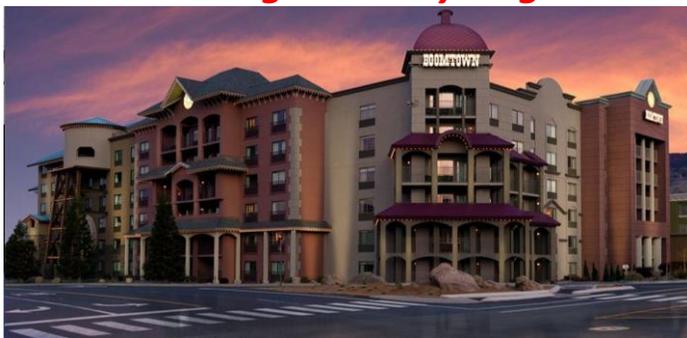
A reminder to those who are receiving this newsletter but have yet to renew your membership to renew. We have made it easy this to renew and join SNARS by going to <http://snars.org/join>. Most members in the club that are long time members normally renew their dues in the month of July. When the clubs merged a few years ago we set those who were part of the organization to a July renewal month. You can also find your renewal date on your membership card or by going to the SNARS website and looking at the roster. <http://snars.org/membership/members/>

Lastly, we are exploring the idea of creating another convention for our area. Preliminary we are calling it the Reno/Tahoe Hamfest. With NVCON being located in Vegas and to give those groups a chance to grow it into something great for southern Nevada we are moving forward with a convention that will cater to Northern Nevada and Eastern California attendees. We are looking for between 5 to 11 planning committee members. If you are interested in being on the planning committee please contact myself at w7xm@snars.org or find me at the breakfast meeting this Saturday.

Hope to see everyone at the Monthly Breakfast Meeting at Boomtown this Saturday starting at 7:30am with breakfast and the meeting at 8:00am. We don't have a program scheduled for this meeting so I will show off the new SharkRF openSPOT DMR/DStar/Fusion hotspot.

73,
Tony, W7XM

SNARS meeting Saturday August 6



7:30 AM Boomtown Casino Hotel, I-80 exit 4, Verdi NV, in the Banquet/Conference Center.

Tony W7XM will show off the new SharkRF openSPOT DMR/DStar/Fusion hotspot.



SNARS, P.O. Box 7727, Reno, NV 89510

Membership: \$40 Individual, \$50 Family

OFFICERS 2015

President.....Tony Marcin.....W7XM
 Vice President..... Jim Shepherd.....W6US
 Treasurer.....Bill Jones.....AE7OX
 Secretary.....Rob Dunbar.....NB6C
 Director.....Steve Johnson.....KS6A
 Director.....John Byerly.....N7ROJ
 Director.....Barry Bettman.....K6ST

STAFF 2016

By Laws Review Committee.....vacant
 Club Public Information Officer.....vacant
 Control Operators Manager.....W7DED
 Cracklin' Static Editor.....WB2AWQ
 Meeting Greeters.....AE7OX
 History Archivist.....KF7KTC
 Station Licensee for KR7ENO.....WB2AWQ
 Control Operators FOR KR7ENO.....WB2AWQ
 Station Licensee for W7TA.....KE7VSR
 Tech Committee Chair.....N7ROJ
 Chief VE Examiner.....NN7K
 Membership Chairman.....N2MOO
 Program Chairman.....vacant
 Web MasterW7XM
 Facebook Page Administrator.....W7XM
 Events (ARES) Coordinator.....WA6MTY
 Education Team Chair.....W7XM
 Reno Ham Swap.....NB6C
 Field Day Co-chair.....KS6A
 Field Day Co-chair.....W6US
 Audit.....vacant
 Noon Net.....KS6A

CRACKLIN' STATIC PUBLICATION

E-mail..... holden7471@msn.com

Cracklin' Static is the Newsletter of, and sponsored by the Sierra Nevada Amateur Radio Society. Opinions expressed herein are those of the editors and contributors and should not be considered as official expressions of the Club Officers, Staff or Club Members, or as endorsements by same.

Material for publication may be edited to enhance readability or to save space. We reserve the right to use whatever font size or line spacing may be required in order to publish this Newsletter.

Deadline for input to the newsletter is 1500 hours on the Sunday prior to the 1st Saturday of each month.

Cracklin' Static is e-published in Adobe PDF Format. It may be enjoyed at the SNARS web site.

Amateur Radio License Testing 2016

SNARS, Third Saturday of February, April, June, August, October and December. Testing will be at the REOC located at 5195 Spectrum Blvd., be there at 9 AM sharp! Bill Nichols... NN7K
SIERA CLUB: Silver State Charter High School, 788 Fairview Dr, Carson City..... 3rd Saturday of January, March, May, July, September, and November

.....Dale Anderson, kv7s@charter.net

Elko Area: Third Saturday of January, April, July, October.

11:00AM, Northeast Nevada Regional Hospital, 2001 Errecart Boulevard, Elko, NV w7gk_1@yahoo.com

SNARS Repeater System Frequencies

I-80-Mt Rose Linked System (W7TA)

Reno, Sparks, Carson City (Ophir Peak) 443.075 + 123.0 Normal Operation
 Lovelock, Black Rock Desert (Toulon Peak) 146.925 - 123.0 Normal Operation
 Winnemucca 146.670 - 123.0 Normal Operation
 Reno, Sparks (Virginia Peak) 147.030 + 123.0 Normal Operation
 Carson City, Tahoe, Truckee (Mt Rose Knob) 147.150 + 123.0 Normal Op
 Reno, Sparks, North Valleys (Peavine Peak) 147.210 + 100.0 Normal Operation
 Yerington, Wellington (Lobdelle Peak) 444.875 + 100.0 Normal Operation

IRLP/EchoLink System (W7TA)

Reno, Sparks (GSR) 147.300 + 123.0 Connected to/Status:

Standalone Systems, Ragchew Repeaters (W7TA)

Reno, Sparks 52.580 - 114.8 Normal Operation
 Reno, Sparks, Carson City, Dayton (Ophir Peak) 147.390 + 100.0 Normal Op
 Reno, Sparks 927.1125 - 114.8 Normal Operation
 Reno, Sparks, Carson City (Ophir Peak) 146.610 - 123.0 Not Linked, off air

Digital/APRS Systems (W7TA)

Reno, Sparks, Carson City (Ophir Peak) 145.050 - RNO Normal Operation
 Carson City, Tahoe, Truckee (Mt Rose Knob) 145.050 - ROSE Normal Op
 Lovelock, Black Rock Desert (Lobdelle peak) 144.390 - TOULON Normal Op

Portable Repeaters (KR7ENO)

Portable System 147.000 - 123.0 Special events only

DMR Digital Mobile Radio

Reno-Sparks 444.925 + CC1 DMR System
 Reno, Carson, Dayton 444.825 + CC1
 Lake Tahoe, Truckee 443.925 + CC1

C4FM Digital Repeater – YAESU OFF THE AIR

D-Star (N7NDS) NARRI

Reno-Sparks-Carson (Mt Davidson) 444.625 + (Module B)
 Reno-Sparks-Carson (Mt Davidson) 145.175 - (Module C)

THE NAME OF THE GAME

By Jim Shepherd W6US nviims@gmail.com

Incident Command System and Planned Events – Part 1

While everyone should be familiar with the use of the Incident Command System (ICS) for emergencies, it is excellent for planned events. Field Day and major hamfests are good examples of such events.

The Incident Commander (IC) is in charge of the entire event. The IC will get a Delegation of Authority from the board of directors to run the event within the limitations that are agreed upon. The IC will then assign people to fill positions as needed and in turn delegate control to those functions.

The first positions to be filled will be the Operations Chief, Plans Chief, Logistics Chief and Finance/Administration Chief. To complete the Command and General Staff, a Safety Officer and Public Information Officer also will need to be appointed.

For Field Day, the Operations Chief or 'Ops' will control all of the 'on the air' part of the event. Early on, Ops would define what stations are needed. In consultation with the IC and the Logistics Chief, they will decide on a location, what sort of equipment is needed, how many personnel are required, and work with the Plans Chief to start arranging for the resources. Ops will also start looking for Division Supervisors or Group Supervisors to control the various parts of the operation. For a hamfest, Ops would be in charge of the program and events.

The Plans Chief or 'Plans' is responsible for getting the necessary personnel and equipment, tracking these resources by the Resource Unit, documenting all of this and preparing the necessary Incident Action Plans. Plans is also responsible for tracking the status and 'demobing' every thing at the end of the event. Plans will have an Incident Technology Support Specialist (ITSS) to set up the computer network for logging and registrations/ticketing.

The Logistics Chief or 'Logs' biggest job is to keep people happy... Logs will appoint a Food Unit Leader who sees that there is good food and plenty of cold water and hot coffee for the troops... They would also be working with the caterer or facility food services manager. Through the Ground Support Unit, getting large and bulky supplies to and from the site as well as managing fuel for the generators will be covered. The Facilities Unit Leader will work with the landowner for the use of the site and with their Base Camp Managers help set up work spaces for all the operations and

camping. The Communications Unit will man the VHF radio on the talk-in frequency and will be able to contact the runners who will be going for more water, generator gas and TP... The Medical Unit will handle any ouwies and dispense sunscreen and bug repellent as needed. The Supply Unit will check out and track club equipment and insure its return at the end of the event. The Security Manager will handle site security during the event.

The Finance/Administration Chief will make sure that we stay within the budget agreed to in the Delegation of Authority. They will track costs and document any losses, injury or damages. They will also do any necessary usage accounting of any rented equipment. They will work closely with the club treasurer and provide personnel to handle registrations and funds collections.

The Public Information Officer (PIO) will get the word out to the media, the general public, government officials and the Club Members. They will also be responsible for maintaining a 'sign-in' and informational location at the Field Day site. The PIO will guide tours around the site for visiting VIPs. They will be responsible for the advertizing of the event to other hams in the region. This is a very important position and we really need someone to step forward to help the club.

This was the first year we had a designated Safety Officer. "Safety" has the authority to stop any action on the site that may lead to injury, sickness or damage. Prevention of any accidents is paramount to a good operation. Safety will also take charge of any 'incident within an incident' and coordinate with emergency personnel.

ICS works well because it can expand and contract with the need at any given time. It maintains 'span of control' keeping only 5-7 people reporting to a supervisor at the next level. With defined functions, it is easy to get to the right person to provide solutions. We may only have 3-4 people working on Field Day for the next couple of months, and we will have 30-50 or more by the time Field Day starts... The same thing will happen with the Reno-Tahoe Hamfest or a state convention. Next time you are up at the REOC, look at all the stations and you will see these positions and a lot more. We will be talking about the duties of most of the units in the next article. In the mean time, if you haven't already taken the IS-100 class, go to <https://training.fema.gov/is/courseoverview.aspx?code=IS-100.b> and take it.

MIKE'S MISSIVES CHAPTER SEVENTEEN

Part 97 – Operating while traveling/mobile

Question: I travel frequently and enjoy operating while mobile. How do I legally identify my station when I am operating away from home?

Answer: If you are traveling within the United States or US territories, you are only obligated to identify yourself with your FCC call sign. Many stations ID with a special appended call sign such as "W1AW/p" to indicate portable, or "W1AW/7" to indicate operating in a different call area. This is strictly optional; the FCC has not required this sort of indicator for many years.

Under the rules, a foreign licensee operating in the US under one of the reciprocal operating agreements identifies by appending their call sign with the letter W followed by the number of the US call district where they are located, such as "W1/1K0HBN."

REPEATER STATUS REPORT

John, N7ROJ, got most of the equipment on Ophir back on the air after our lightning incident. The 146.610 is running on reduced power similar to a handheld but with a much better antenna. The 443.075 is working as a stand-alone UHF repeater at normal power. Both of these repeaters are great ones to use for rag chewing in the Reno area. The RNO packet node on 145.050 is also working normally. The NARRI repeater is running at 20 watts but it does not have an IRLP connection at this time. In addition, John donated his old Red Peak 900 MHz repeater to the club and installed it on Davidson, replacing the club's old 900 machine. It is on 927.0875 pl 114.8 narrowband.

Jim, W6US, took the old link radio from Ophir and replaced the link radio on Winnemucca Mtn. This now links Winnemucca and the Toulon repeater near Lovelock. Due to some problems at Toulon and Virginia Peak, the link to the main Reno system will remain down until we can go to those sites and make repairs.

The new 444.125 pl 123.0 port into the main Reno system is progressing and should be installed on Peavine in the near future. This will allow UHF only handhelds to access the main Reno system.

Jim Shepherd, W6US
nvjims@gmail.com

Weekly nets on the SNARS repeater systems

Western Nevada Noon net (daily, 12:00 PM)
147.150 + 123.0, 147.210 + 100.0, 147.030 + 123.0, 444.875 + 100.0

The Morning Net (Monday – Friday at 10:00 AM)
147.300 + 123.0

Bishops Storehouse Net (Monday nights at 9:15 PM)
147.150 + 123.0, 147.210 + 100.0, 147.030 + 123.0, 444.875 + 100.0

North Western Nevada ARES Net (Tuesday nights at 7:00 PM)
147.150 + 123.0, 147.210 + 100.0, 147.030 + 123.0, 444.875 + 100.0

State SATERN Net (Tuesday nights at 8:00 PM)

147.300 + 123.0

State SKYWARN Net (Wednesday nights at 7:00 PM)
147.150 + 123.0, 147.210 + 100.0, 147.030 + 123.0, 444.875 + 100.0

Northern Nevada Preppers Group Net (Wednesday nights at 8:00 PM)
147.150 + 123.0, 147.210 + 100.0, 147.030 + 123.0, 444.875 + 100.0

State ARES Net (Thursday nights at 7:00 PM)
147.300 + 123.0

SNARS New Ham Net (Sunday afternoons at 12:00 PM)
147.030 + and 147.150, +, PL 123.0, and 147.210 + and 444.875+, PL 100.0

THE SNARS NOON NET

The Noon Net is on 147.030 +and 147.150+, PL 123.0, and 147.210 + and 444.875+, PL 100.0 . The net is held weekly at 1200, Sunday afternoon. This is a Q&A and information net for newly licensed hams and all hams wishing to ask question about different aspects of Ham Radio. It will give new hams in particular a venue for getting on the air in a controlled net moderated by a ham with experience. The net is open to all hams. Questions will be answered and discussed by the more experienced hams on the Net.

* * * * *

NAME THAT RIG



(Answer on page 6)

Kyle	Tierney	KI7FOY
Robert	Harrelson	KI7FOW

FUN STUFF FOR AUGUST

Looking for some excitement on the bands during the summer? There's something for everyone on the air!

6 Aug 0001 to 7Aug 2359 28 10-10 International Summer Contest, SSB Ph www.ten-ten.org

6 Aug1800 to 7 Aug 0559 1.8-28 North American QSO Party, CW www.ncjweb.com/NAQP-Rules.pdf

20 Aug 0600 to 21 Aug 2359 10 GHz to light ARRL 10 GHz and Up Contest CW Ph Dig www.arrrl.org/10-ghz-up

20 Aug1800 to 21 Aug 0559 1.8-28 North American QSO Party, SSB Ph www.ncjweb.com/NAQP-Rules.pdf

21 Aug 1800 to 21 Aug 2359 3.5-50 ARRL Rookie Roundup, RTTY Dig www.arrrl.org/rookie-roundup

For a full list of contests, see: [http://www.arrrl.org/files/file/Contest%20Corral/2016/August 2016 CORRAL.pdf](http://www.arrrl.org/files/file/Contest%20Corral/2016/August%202016%20CORRAL.pdf)

If you're not into contests, there's always DX to chase, lots in April! Some of the better DX coming up in August:

- Aug05 to Aug19 Azores CT8
- Aug06 to Aug11 Aland Is OH0
- Aug09 to Aug18 Cambodia XU7
- Aug11 to Aug16 Market Reef OJ0DX
- Aug13 to Aug22 Tanzania 5H1XX
- Aug13 to Aug22 Tanzania 5H1XX
- Aug20 2016 Sep21 Vanuatu YJ
- Aug21 to Sep04 Corsica TK
- Aug29 to Sep05 Macao XX9TYT
- Aug30 to Sep24 Mongolia JT

Visit <http://www.ng3k.com/Misc/adxo.html> for current info and full lists!

SNARS CALENDAR

SNARS monthly meeting (breakfast!)
 Saturday, August 6th, 8:00 AM
 Boomtown Casino Hotel, I-80 exit 4, Verdi NV

Technical Committee Meeting - SNARS
 Wednesday, August 10th, 2016 6:00 PM - 7:00 PM PDT
 Washoe County Regional Emergency Operations Center,
 5195 Spectrum Blvd Reno, Nevada 89512

Board of Director's Meeting - SNARS
 Wednesday, August 17th, 2016 6:00 PM - 7:00 PM
 Washoe County Regional Emergency Operations Center,
 5195 Spectrum Blvd Reno, Nevada 89512

Ham Cram (review, then test for Technician or upgrade to General or Extra), pre-registration required.
 (<http://snars.org/classes/>)
 Saturday, August 20th, 2016 8:00 AM to 4:00 PM
 Washoe County Regional Emergency Operations Center,
 5195 Spectrum Blvd Reno, Nevada 89512.

WELCOME NEW SNARS MEMBERS!

276 Active Members for July

Esther	Baker	KD6UIY
William	Gustafson	KF7LPG
Craig	Hartman	AI6DJ
Rick	Leach	KI7FNT
Mark	Mitzen	KI7FNY
Gary	Newman	KI7FNR
Rosalyn	Rich	AE6WT
Ron	Sullivan	W7MUT

NAME THAT RIG (from pg 5)

. The **Icom** IC-706 was first introduced in 1995, and became an instant hit on the Amateur bands. Very small, relatively inexpensive, and covering all nine HF/MF Amateur bands with 100 watts out, plus 6 and 2 meters at lower power, it was a “first” rig for many thousands of Amateurs. Two more versions were released, the MKII

and the MKIIG, each offering improved performance over its predecessor. With its small size 6.6” X 2.3” X 7.9”) and weight (just 5.5 lb), it put HF mobile/portable within the reach of most anyone, in any situation. The list of options was almost endless, yet it enjoyed a reputation as a really simple radio to use. The last MKIIG was released in 2009.

ARES NEWS

July 15-17 was the Tahoe Rim Trail Run put on by Tahoe Mountain Milers. TRT was a very successful event this year and TMM were very grateful for our help with communications between the Aid Station Captains and the Race Officials. Unfortunately, one of their GMRS repeaters had some problems and we helped with the communications.

Thanks to the following Hams that helped out this year at the Aid Stations:

START FINISH (NCS) Bob Miller WA6MTY, Doug Abramson KA7F00; **Hobart** Aid Station Victor Bausell K7VWB, Ken Juenke K7KBJ; **Bull Wheel** Aid Station NONE; **Tunnel Creek** Aid Station Keith Mahan KI6OO, Rusty Hays KI6YUO, **Diamond Peak** Aid Station Gordon Milldrum **WB6JAD**, **Snow Valley Peak** Aid Station Rich Marx **AF7RM**, Thomas Brinkoetter **WA9ETO**, **Red House** Aid Station Michael P Sherrick **NZ7G**, Natalie Sherrick **N7JKM**, and Steve Johnson **KS6A**

But this wasn't enough operators for a 24hour event that started at 0500 Saturday Morning and ended at 1600 on Sunday. We need twice as many ham operators. If you like to camp out and work portable, we can use your help next year July 15 and 16 2017. So put it on your calendar for next year and also let me know so I can add you to next year's list. This is a great communications exercise for NEW Hams. **Except** for Bull Wheel, Diamond Peak and Net Control at the Start/Finish line the remaining Aid Stations require an off road vehicle. Bull Wheel requires that you and your equipment will need to be hauled up to the Aid Station. A fun location for back packing hams.

PASS THE WORD!!!! PASS THE WORD!!!! PASS THE WORD!!!! PASS THE WORD!!!!

REMINDER the next One Day Ham Cram (Ham test review) will be held Saturday August 20th at the Regional Emergency Operation Center 5195 Spectrum Blvd, Reno, 0800-1600. If you know anyone that wants to review, then test for Technician or upgrade to General or Extra they **MUST MUST MUST** register on SNARS website (<http://snars.org/classes/>) before you can attend.

Here are the dates for the remaining communications events for this year.

Expanded full calendar of ARES events requiring communications, including contact info

EVENT 2016	DATE	DATE END	SPONSOR/ORGANIZER	COORDINATOR	CONTACT
Round Valley Walk/Run	8/6/16		Plumas ARC	Larry Trotter KI6YUK	dltrrotter@sbcglobal.net
Running With the Bears	8/20/16		Plumas ARC	Larry Trotter KI6YUK	dltrrotter@sbcglobal.net
Reno 5000-3	8/28/16		Dolan Auto Group	Bob Miller WA6MTY	wa6mtty@gbis.com
Tour De Tahoe	9/11/16		Tahoe Amateur Radio Assn	Paul McCaffee	paul.mcafee@att.net
Reno Air-Races	9/14/16	9/18/16	WC-ARES	Rick Russell KF7KEM	wa6mtty@gbis.com
Edible Pedal 100	9/18/16		Sunrise Rotary Club	Bob Miller WA6MTY	wa6mtty@gbis.com

Bob Miller WA6MTY
Amateur Radio Emergency Service
Emergency Coordinator
775 843-5952
www.wcares.us
www.wcares.us

Minimalist thinking about Field Day antennas

With our setup for Field Day this year in Washoe Lake State Park having total lack of any tall trees, I was forced to think about how to support suitable antennas for 20 and 15 meters. 40 and 80 were covered, sort of, by having Jim Shepherd's mobile trailered tower providing some 70 ft height at one end. But with trying to maintain suitable separation between the other stations and the CW operation, even those antennas had center heights of only 20 feet or so.

I have two Shakespeare telescoping fiberglass fishing poles, one 13 ft long, the other 20 ft long. Those were the basis for my 15 and 20 meter antennas. My idea was to set up inverted vee antennas on both bands. The top section of each antenna is far too thin to support the center of an antenna. Using a 4 ft PVC extension on a PVC base, and 17 ft of the 20 footer, and 10 ft of the 13 footer gave heights of 21 and 14 ft respectively. Not wonderful, but from my long experience with low stealthy antennas I knew they would work OK, at least in Nevada.

Performance of two different 20M dipoles:

One dipole made of #12 stranded insulated wire, fed with 67 feet of 9913 coaxial cable. Antenna/coax weight 5.2 lb. Effective radiated power, factoring in coax losses, wire losses and mismatch loss, radiated power = 91.4 watts or -.4 dB loss if 100 watts was applied to the system.

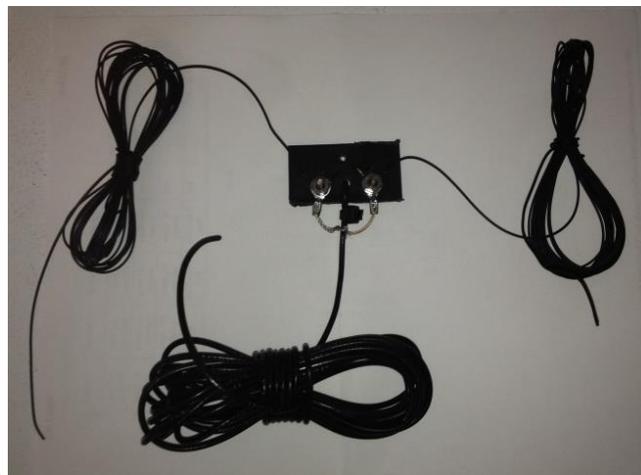
One dipole made of #26 stranded insulated wire, fed with 50 ft of RG8X, then 17 ft of RG-174 mini coaxial cable to the antenna. Antenna/coax weight 2.1 lb. Effective radiated power, factoring in coax losses, wire losses, mismatch loss, radiated power = 75.9 watts or -1.2 dB if 100 watts was applied to the system. Three times the loss of the first antenna. But read on.....

The difference is 15.5 watts, or -.8 dB for the lighter antenna. The decibel is commonly defined as the minimum change in power level necessary for the human ear to discern a difference in level. Six decibels is commonly (but often mistakenly) considered to be the difference between S-units on a receiver S-meter. So, this -.8 dB would be hardly noticeable on a receiving stations S-meter. *And probably not noticeable to the human ear.* The difference in weight supported by the fishing pole (17 ft of RG-174 vs 17 ft of RG8) is 2.1 lbs vs 0.18 lbs, 33 ounces vs 3 ounces. The nearly 2 lb additional would make the bowing of the fishing pole dramatic.

I made 169 QSOs on 20M for Field Day with the light antenna. Given the very small performance difference

between the two antennas, the heavier antenna would have produced few if any additional QSOs. More weight, more cost, more bulk, more setup time, and no additional QSOs for the heavier antenna, a no-brainer for me.

Just a couple of thoughts on all this. In a permanent setup, I'd opt, if I could, for the heavier stuff because of its durability. If I chose to run high power, the heavier would be mandatory. And for VHF, the smaller RG-174 cable is not at all suitable. Wire losses are inconsequential up to 100 watts or so in either case.



The 20 meter dipole assembled and ready for installation. The RG-174 cable is just 0.11 inches in diameter, and the wire, Polystealth-26, is just 0.04 inches in diameter. All very light yet sufficiently strong for portable applications. The center insulator is a 3/4 X 1-1/2 inch piece of soft plastic. The hardware is #6 screws, lockwashers, and nuts, and #6 uninsulated ring connectors. Three ounces total weight as pictured.

There are many who would seriously question the use of RG-174 cable, based on its small size and fairly high attenuation factor. However, RG-174 is rated to 300V RMS, the same as RG-58 and other similar size coaxial cables, and in the short length I used here, the power dissipated in the cable at 14 Mhz is 12 watts at 100 watts in, and a good tradeoff between weight on the fishing pole and power loss. At 100 watts into a 50 ohm load (SWR of 1) the RMS voltage is 70.7. Theoretically, that means RG-174 could handle several times that, although I'd be reluctant to try! The loss in the coax could heat things up too much for the coax to handle. However, at the 100 watt level there are no signs of stress or undue heating, provided SWR is kept reasonably low.

I used the coax loss calculator at <http://arrg.us/pages/Loss-Calc.htm> and various manufacturers' wire and cable data pages for the cable data and calculations in this article.....WB2AWQ



Board of Directors Meeting

July 20, 2016 - 6:00 PM

Washoe County Regional Emergency Operations Center
Board Room
5195 Spectrum Blvd, Reno

DRAFT MINUTES - To Be Approved on August 17, 2016

1. Call to order at 6:02 PM

Anthony Marcin, W7XM	Yes	Barry Bettman, K6ST	Yes	Rob Dunbar, NB6C	Yes
Bill Jones, AE7OX	Yes	John Byerly, N7ROJ	No	Steve Johnson, KS6A	No
Jim Shepherd, W6US	Yes				

Visitors

Wes KG7QXE

2. Approval of Minutes

- A. W6US moved to approve the minutes from the June 15th Board of Directors meeting. The motion was seconded by NB6C and the motion passed.
- B. NB6C moved to approve the July 20th agenda as presented. W6US seconded the motion and passed.

3. Reports

A. President's Report -

- 1. Nothing to report.

B. Secretary Report

- a. Status Report, nothing to report at this time.
- b. No update on changing club from Chapter 81 to Chapter 82. Clubs charter expires in 2018. W7XM has started and will hand off to Secretary.

C. Membership Coordinator

- a. Membership Status Report – There are currently 325 Members and membership will fluctuate as members renew.

D. Treasurer

- a. Balances as of May 31: Checking: \$6,987 Savings: \$3,241 PayPal: \$2,595 Trust Fund: \$10,203 for a total of \$23,026 Bank statements were handed out for everyone to review and confirm.

E. Technical Committee - Report

- a. Ophir 610 machine running again and outputting 6 watts right now. 443.075 is also back up and running.
- b. N7ROJ picked up linked radio for Winnemucca and is installed and running.
- c. Toulon to Virginia Peak is still not up.
- d. New 440 analog repeater coming to Peavine.
- e. N7ROJ moved his 900mhz repeater from Red Peak and donated to club and put it in Davidson.
- f. Kent's box is up and running on Ophir.

- g. Link Radio on IRLP is still down.
- h. New Virginia Peak is at W7XM garage getting ready to install after site inspection.

F. Control Operators / Trustee - Report

- a. No report was submitted by Peter DeBay or Pat Sheehan.

G. Events

- a. Field Day – Was very successful and spent \$945 which is on par with past years. Cracklin Static reported on the Field Day results.
- b. Swap Meet – Tentatively September 24 at Boomtown.
- c. Reno-Tahoe Hamfest – Investigating to see if we can get help from other groups in the area and when and where to have it.

H. Education Team

- a. Winding down general class 6 passed.
- b. Soon to announce up coming DMR classes.

I. Noon Net

- a. Still looking for new net control operators. Anyone that wants to volunteer contact Wes KG7QXE. Most days net are running 25 – 35 minutes.

J. HF Team

- a. HF team to kick off in the fall.

4. New Business

5. Next Meeting

- A. August 17 2016 - Wednesday at 6:00PM - Washoe Regional Emergency Operations Center

6. Public Comments

- A. Open for Comments - No Public Comments

7. Adjournment at 7:03 PM AE7OX, NB6C