

High-Country Static

September 2016

News and Information Concerning
 Amateur Radio in Northern Arizona and
 Beyond

Welcome to the Coconino Amateur Radio Club (CARC) Monthly Newsletter. CARC is a non-profit club devoted to providing communication services to local volunteer agencies and events. Meetings are held the second Thursday of each month at the East side Sizzlers Restaurant Highway 66 at Fanning Dr. Flagstaff, at 7:00PM. All persons interested in amateur radio, whether licensed or not, are welcome to attend.

Coconino SkyWarn meets 1900 every Monday evening on the 146.98 repeater and at 1930 on the Navajo Mountain CACTUS repeater and 146.480 simplex.

Coconino ARES meets 1900 every Wednesday evening on the 146.98 repeater and at 1930 on the Navajo Mountain CACTUS repeater and 146.480.

Officers:

President: Tom Shehan KY7WV

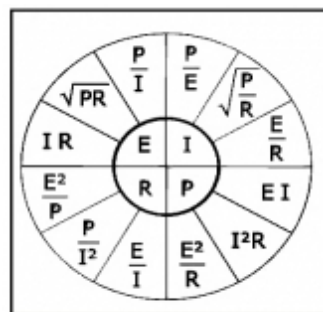
Vice-President: Sandy Meadowcroft KF4JHC

Secretary: Erv Perelstein, KE7QFI

Treasurer: Pat Traber, KE7QFG

PIO: Vacant

Newsletter: Janice Enloe, KI6WCK



E = voltage I = current
 R = resistance P = power

Calendar of Events for 2016:

- | | | |
|------------|-------|---|
| September: | 5 | Williams 10K Labor Day Run |
| | 24-25 | Flagstaff to Grand Canyon 100 Mile Run |
| October: | 8 | Soulstice Mountain Trail Run (KF4RKS) |
| | 15 | Amateur Radio License Exams at North County Health Care (W7LUX) |
| | ?? | Northland Preparatory Academy solar observing (W7LUX) |
| November: | ?? | Arizona Division of Emergency Management Exercise |
| | ?? | Girls on the Run (KF4JHC) |
| | ?? | Northland Preparatory Academy ISS contact |
| December: | 3 | SkyWarn Recognition Day at NWS Belmont (UTC date) (KD8RQV) |
| | 11 | Christmas party- Sandy and Bob Meadowcroft's home |
| | ?? | Northland Preparatory Academy ISS contact |

Thank you and Help Wanted:

Thank you to all who have run the Monday and Wednesday night nets:

Flagstaff: Tom KY7WV, Erv KE7QFI, Mike KD8RQV, Bob KF4RKS, Janice KI6WCK

Page: Lee KF7YRS and Vince WB7UWW

If anyone one would like to help with the nets, please let Tom know. It is good practice for radio skills and the script is written for you to use.

Licensing Exams for 2015-2016:

October: 15 Radio Exam. Location TBD

Remember to bring your HAM license and a copy (if you are upgrading your license), a government issued picture ID, a black ink pen, calculator with memory erased and fifteen dollars (exact change is appreciated).

<http://wireless2.fcc.gov/UlsApp/UlsSearch/searchLicense.jsp>

Arizona Newsletter: <http://www.arrrl.org>

Tutorials: <http://www.arrrl.org/tutorials>

http://www.arrrl.org/exam_sessions/flagstaff-az-86004-1221-2

Next Business Meeting:

Our next business meeting will be September 8, 2016 at the East side Sizzlers at the corner of Highway 66 and Fanning. Dinner @1800 and meeting starts @1900.

Minutes of the Coconino Amateur Radio Club

Minutes of the Coconino Amateur Radio Club 8/11/2016

Meeting Started: 19:00

Secretary's Report: Since the minutes of the July meeting were published in the newsletter, there was no need for Erv to read them. MaryLou Hagan made a motion and Bill Smith seconded the motion to accept the minutes as previously corrected. They were approved unanimously.

Treasurer's Report: Pat Traber, our club treasurer, gave the Treasurer's Report. The closing bank balance was \$3,643.79. Membership is 55 members, consisting of 51 paid members and 4 lifetime members. Since there was nothing additional for the Treasurer's Report, Bobbie Brunner moved and MaryLou seconded a motion to accept the Treasurer's Report. Unanimously accepted.

Pat noted that Matt Mossier donated a small radio on a printed circuit card for the 50/50 prize.

Guest Speaker: No Guest Speaker this month.

President's Report: Sandy Meadowcroft, CARC President, was away. Tom Shehan served as acting President. After Introductions, he thanked everyone who participated in the Toys-for-Tots / Fat Tire Race. He noted that Net Control was very active with one injury as well as several courtesy assists.

Vice President's Report: Tom Shehan opened the floor for additional nominations for President and Vice President and reminded us that elections are coming up in November. We currently have

one nominee for President, Tom Shehan and one nominee for Vice President, Sandy Meadowcroft. There were no additional nominee presented. Pat moved to close nominations and called for a unanimous approval of Tom for Pres. and Sandy for Vice Pres. Joe Hobart seconded the motion. The motion passed unanimously.

Tom told us that the potential CW class has been cancelled. It might be offered again in the future.

Tom reminded us again that the National Parks On The Air (NPOTA) project is still active and will continue to be through the end of 2016. He urged HF Operators to try their hand at contacting "activators" in as many National Parks as possible. It's fun and excellent practice. You can find the entire schedule at NPOTA.ARRL.org.

New Business: Erv Perelstein, who is a MARS operator, spoke about the upcoming National Level Exercise on Monday, Aug. 15th. He invited all club members to participate as data gatherers for weather conditions at the nearest airport and County Status Reports. He told everyone the actual format of the messages he will be preparing. Some members agreed to participate. Erv said we could transfer data to him on the VHF Elden Repeater by voice. He thanked all that volunteered.

Old Business: Upcoming project review:

? ? ISS communications at Northland Preparatory Academy. Jeff Hartig the new NPA contact informed us that NASA changed the dates we originally, August, September or October to November. Joe and Ken Held coordinating.

8/28 AZ Trail Marathon Run at Jacobs Lake. Tom organizing. Tom said they could use a few more volunteers.

9/5 Williams 10k Labor Day Run. Williams people will coordinate but would appreciate help from us.

9/24-25 Flagstaff to Grand Canyon 100 Mile Race. Bill Smith coordinating.

10/8 Soulstice Trail Run. Bob Meadowcroft coordinating.

10/15 Administer Amateur Radio Tests at North Country Health Care. Joe coordinating.

11/12 Girls-On-The-Run. Change of venue; will be held at Ft. Tuthill instead of Buffalo Park. Sandy coordinating.

ARES Report Joe talked about Public Service and reviewed the nets we can get on for information: the state RACES net is on Sunday mornings at 7:30 am and there is a state ARES net as well as our ARES net on Wednesday at 7:00 pm. There is also a Nevada ARES net on 7380 KHz. There is also Nevada ARES net for info.

Joe said that the Rim Link VHF Repeater System and the .98 Repeater can be use for notification of disasters or transfer of status data about disasters. He said the ARA is currently working to replace the Station Master Antenna that came down, during the winter, from ice build-up. They are also working on the 146.14 repeater.

Joe mentioned that we need more people to help with SKYWARN and ARES nets. Mike Clever, MaryLou Hagan, Gary , and Bill Smith offered to help out. Thank you to all four..

50/50 Raffle: Daniel Moore won the raffle this month and he won the second drawing for the radio. Joe moved to adjourn, MaryLou seconded the motion. It was accepted unanimously.

Presentations: No additional presentations this month.

Meeting Ended: 20:25.

President's Corner:

Arizona Trail Association (ATA) North Rim Marathon Report

On August 28, CARC provided radio communications for the ATA North Rim Marathon. We had never supported this event before. We knew the terrain would be challenging for radio

communications and there was no cellular phone coverage in the area, so we scouted the race course the weekend before to test communications. We found we could use a VHF simplex net for race communications and establish a HF net with Flagstaff for emergency communications on 60 meters. CARC had never used 60 meters before to support a race.

On the day of the event the team was completely prepared for all the challenges of the race. A Yagi antenna provided great VHF propagation to all aid stations using only 10 watts. An off-center fed (OCF) 40 meter antenna hung about 25 feet off the ground provided S8 – S9+ signals to Flagstaff on 60 meters for the entire day. Since the band is lightly used, it was very quiet. This antenna was tuned with a LDG auto tuner.

The race was a complete success. Communications were completely operational for the entire event. There were no reported injuries. Every runner completed the race except one. In total there were 50 runners. We set up at 7:30 AM. Net control was packed up to leave a little after 4:00 PM. Due to the distance to the race, several team members camped the night before and some the next night as well. It made for a great time in a beautiful landscape!!

Many thanks to everyone who supported this event and made it such a success:

- Dawnelle Shehan, KG7LTR
- Bill Smith, KQ1S
- Julie Smith
- Nancy Nelson, K7WKS
- Eric Nelson, KG7UNI
- Sandy Meadowcroft, KF4JHC
- Bob Meadowcroft, KF4RKS
- May Lou Hagan, KG7TPK
- Bill Hagan, KG7TPM
- Phil Brunner, AE7OH
- Joe Hobart, W7LUX
- Erv Perelstein, KE7QFI
- Other HF operators who were monitoring our 60 meter channel in case help was needed.

Matt Nelson, Executive Director, ATA provided excellent support to us including a complete list of runner names and bib numbers. He provided a complete “did not show” list after the race started and even grouped the bib numbers by race event: 10K, half-marathon, and full marathon. Wish we could have this at all our events!

I am looking forward to CARC supporting this event in future years!!

HAMfest Calendar:

8 October 2016 - **West Valley Amateur Radio Club**

Hamfest - hosted by the West Valley Amateur Radio Club will be held at St Clement of Rome Catholic Church, 15800 N Del Webb Blvd in Sun City. Hours are 7:00 AM until Noon. Set up beginning at 6:00 AM. Free Admission. Tailgaters/Vendors spaces \$10.00. Talk-In Frequency: 147.300 PI 162.2. Visit the web site at www.WestValleyHamfest.org for more details.

15 October 2016 –**2016 Kingman Hamfest** - hosted by the Mohave Amateur Radio Club will be held in the parking lot of the KRMCM Medical Plaza, 2202 Stockton Hill Road in Kingman.

Hours are 7:00 AM until 3:00 PM. Bring your own food and drinks. Contact Rick Cooper at 928.530.1671 or Bill Smith at 928.303.9857 for details.

21 - 22 October 2016 –**2016 Arizona State Convention/ CopaFest 2016** - hosted by the Maricopa Amateur Radio Association will be held at the Ultra Star Center at Harrah's Ak-Chin Casino, 16000 Maricopa Road in Maricopa. Talk-In: 449.125- (PI 136.5) & 145.210- (PI 162.2). Contact Bob

5 November 2016 - **Cochise Fall Swapmeet & Communications Exercise** - hosted by the Cochise Amateur Radio Association will be held at the Green Acres club facility located at 2756 S Moson Rd in Sierra Vista. Date to be confirmed. Contact Lee Ilse, KD7OED at kd7oed@arrl.net for more information.

5 November 2016 - **Harkfest Tailgate Hamfest** - hosted by the Hassayampa Amateur Radio Klub (HARK) will be held at North Ranch Escapees RV Park located at 30625 S Hwy 89 in Congress. Free Admission - Free VE Testing - Free Tailgate Sites (pre-registration required - n0daj1950@gmail.com). Prizes, Vendors, Arts & Crafts Show at Activity Center, Lunch will be served in the Activity Center. Overnight Camping (Full Hook-Up & Dry) is available and tailgating at campsite is permitted. Pre-registration for camping is required. Visit www.escapees.com/parking/congress to reserve. Talk-In: 146.620 (PI 162.2) or 146.580 (simplex). Contact Doug Jarmuth at n0daj1950@gmail.com for more info.

12 November 2016 - **Oro Valley ARC Hamfest** - hosted by the OroValley Amateur Radio Club will be held at Marana Middle School, 11279 W Grier Road in Marana. Talk-In: 146.620(-), 444.100(+), and 147.32(+) - all PI 156.7. Contact Steve Wood, W1SR at 520.906.1204 or email to nauset2222@yahoo.com for more information.

3 December 2016 - **SuperFest 2016** - hosted by the Superstition Amateur Radio Club will be held at Mesa Community College, 1833 W Southern Avenue in Mesa. Hours are 8:00 AM to 3:00 PM with set up beginning at 6:00 AM. Admission \$5.00 per person (under 12 years, free). Admission includes 1 hourly prize ticket. Tailgate - \$10.00 per space. Grand Prizes, Door Prize, Hourly Prizes. VE Testing, ARRL Card Checking, Special Event Station, GOTA Station, Fox Hunts, Great Food and Drinks, and Live Music by John J. KD8PC. Contact SuperFest Chairman at chairman@superstitionsuperfest.org for more info.

14 January 2017 - **Thunderbird Hamfest 2017** - hosted by the Thunderbird Amateur Radio Club will be held at Northwest Community Church, 16615 N 43rd Avenue in Phoenix. Hours

are 8:00 AM until 12:00 Noon with vendor set up beginning at 7:00 AM. Commercial Vendors may also set up Friday night after 5:00 PM. General Admission: \$3.00 per person. Tailgate and Vendor: \$10.00 per Parking Spot. Door Prizes every half hour, VE Testing (exam fee \$15.00), and Seminars. Snacks and Beverages will be Available. Talk-In on 146.700 -600 KHz, 162.2 PI or 446.150 -5 MHz, 100 PI. Email hamfest@w7tbc.org for more details. Sorry - this is a church/

HAM radio Book Review from Joe, W7LUX

Book Review: Minimum QRP: Doing more with under five watt amateur radio

By: Peter Parker, VK3YE

Price: \$4.99 Kindle Edition (Amazon)

This is an excellent book for those who have a Kindle or Kindle application on a computer. Although the title is QRP (low power operation primarily on high frequency and six meters), Peter offers great advice for all amateur radio operators, including VHF/UHF operators who want to work a little farther than the local repeater. The book is an especially useful introduction to practical aspects of high frequency operation, especially portable and low power operation.

Coconino ARES already uses portable high frequency operation for public service events. If we have a major communications emergency, the knowledge in the Minimum QRP book will help us provide better communications for Coconino County.

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7. CONCLUSION

8. ABOUT THE AUTHOR

The chapters on propagation and what coverage to expect from the different amateur radio bands is alone worth \$5. There is also a sense of achievement in seeing how far you can work using low power.

Peter has published a second book: Hand-carried QRP antennas that describe antennas he has used for portable and pedestrian mobile operation during the past 25 or so years. Most of these antennas will work at home, especially if you need something light to erect and take down quickly.

Believe it or not—there is a cookbook for everything: And no ham involved!!

Broken Arrow Amateur Radio Club: W5DRZ.org

Recipes

Skipper NQ2J's Worship Wings

(Adapted from Uncle Bubba's Wings)

Ingredients:

- 36 ounces hot sauce
- 4 ½ tbs Cajun or Creole seasoning
- 3 tbs Cayenne pepper
- 3 tbs Garlic powder
- 2 ½ tbs Chipotle powder

- 2 tbs Onion powder
- 24 lbs Chicken Wings
- Peanut or Canola Oil, for frying

Directions:

Prepare the wings, removing tips & cut at the joint. Sift the ingredients several times through a strainer, using two bowls, making sure that all the dry ingredients are thoroughly combined. Then combine the hot sauce with the sifted dry ingredients & mix well.

Add wings, mixing well into the sauce. Cover & refrigerate for at least 24 hours. Pour oil in deep fryer according to deep fryer directions; or put at least two inches of oil in deep-sided pot. Heat oil until it reaches 350 degrees.

Remove the wings from the marinade & drain off excess moisture. Carefully add the wings to the hot oil in batches(the oil may splatter.) Cook until crisp, 12 minutes.

Skipper (NQ2J) Creole Shrimp and Lobster Bisque

(Courtesy of Paula Dean; serves 5-6)

Ingredients:

- 2 steamed fresh lobster tails
- 4 tablespoons butter
- 1 small white onion, finely chopped
- 2 stalks celery, finely chopped
- 2 cloves garlic, minced
- 1/3 cup all-purpose flour
- 3 cups chicken broth
- 1/2 pound steamed medium size fresh shrimp, peeled, deveined, and chopped
- 2 cups half-and-half
- 1 teaspoon Creole seasoning

Directions:

Remove lobster meat from shell; coarsely chop and set aside. In a large saucepan, melt butter over medium heat. Add onion, celery, and garlic; cook for 5 minutes, stirring occasionally. Stir in flour, and cook for 2 minutes. Stir in chicken broth; cook for 10 minutes, stirring occasionally, until thickened.

Add lobster meat and shrimp. Stir in half-and-half and Creole seasoning; cook for 10 minutes, or until heated through, stirring occasionally. Serve immediately.

Skipper's Creole Shrimp and Lobster Bisque (Party-Size Batch)

Ingredients:

- 2 steamed fresh lobster tails
- ** At least 2lbs steamed medium size fresh shrimp,
- peeled, deveined, & chopped
- 8 tbs butter
- 1 ½ large white or yellow onions, finely chopped
- 6 to 8 stalks celery, finely chopped
- 1 entire head of garlic, minced
- 1 ¾ cups all-purpose flour
- **3 ½ cups stock from shrimp & lobster steaming
- 1 qt fish stock
- 2 cans chicken broth
- 1 qt half&half
- 2 tbs Creole seasoning
- ½ cup white wine (dry)

Directions:

Remove lobster meat from shell; coarsely chop & set aside. In a large stockpot, melt butter over medium heat. Add onions, celery & garlic; cook for 8 minutes, stirring occasionally. Stir in flour, & cook for 4 minutes. Stir in stock & chicken broth; cook, stirring occasionally, until thickened.

Stir in half & half and Creole seasoning; stirring occasionally. Add lobster meat, shrimp & wine last! Cook for at least 15 minutes, until heated thoroughly. You can serve immediately, or set aside for later consumption.

** In a 2lb bag of shrimp, there are approx. 31-32 shrimp. After peeling, deveining & rinsing shrimp, steam them in batches.(15 to 16 shrimp at a time), they will steam more evenly. Don't oversteam the shrimp! Just get them slightly pink. After shelling shrimp, save shells to put in water for steaming shrimp & lobster tails. They will get cooked more, when you add them last.

More Recipes (from CARC, too)

HAM radio solar generator:

For complete instructions, see club President, Tom, KY7WV

- 1 Radio operator with waaaaaaay too much time on his/her hands.

- 1 Very understanding significant other
- 1 Lots of sunshine
- 1 Social group composed of like individuals
- 1 Parts list (here is the dangerous part)
- 1 Challenge to make radios with backup power capability

Solar Generator Parts List

Quantity	Description
1 ea.	Battery box. Large with divider to keep battery at one end.
1 ea.	Group size 24 marine battery. 105 AH.
1 ea.	100 watt bendable solar panel
3 ft.	PV cable with MC4 connectors
16 ft.	PV tray cable
1 ea.	30 amp PWM solar charge controller
7 pair	45 amp Anderson Powerpole connectors
1 set	Panel for 2 pair Anderson Powerpole connectors
1 ea.	800 watt inverter
1 ea.	12 volt, 14 amp car socket with dual USB supplies
1 ea.	12 volt, 15 amp car socket
1 ea.	30 amp fuse holder and fuse for 2 pair Anderson Powerpole connectors.
1 ea.	15 amp fuse holder and fuse for 12 volt, 14 amp socket
1 ea.	15 amp fuse holder and fuse for 12 volt, 15 amp socket
1 ea.	ATO fuse holder and 25 amp ATO fuse for solar charge controller
2 ea.	Ring terminals, 12 ga. for 12 volt, 14 amp socket
2 ea.	12 ga. wire for 12 volt, 14 amp socket connections
2 ea.	Ring terminals, 12 ga. for 12 volt, 15 amp socket
2 ea.	12 ga. wire for 12 volt 15 amp socket connections
4 ea.	Ring terminals, 10 ga. for Anderson Powerpole connectors and connect solar charge controller to battery

- 10 ea. 10 ga. wire for Anderson Powerpole connectors, solar charge controller to battery and make Anderson Powerpole connectors for solar panel and load out connections
- 4 ea #6 x 1/2" bolt, lock washer, and nut for solar charge controller
- 4 ea. #8 x 3/8" bolt, large diameter flat washer, lock washer, and nut for inverter
- 1 ea. Epoxy
- 1 ea. Battery minder for AC charging and maintenance