

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 Pulliam Airport Conference Room, Second Floor, 6200 S. Pulliam Drive 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.

Thank you Bruce:

The club wishes to extend a huge thank you to Bruce Sidlinger who has allowed us to use his facility for our meetings for the last year for free. Yeah Bruce.

Officers:

President: Sandy Meadowcroft KF4JHC

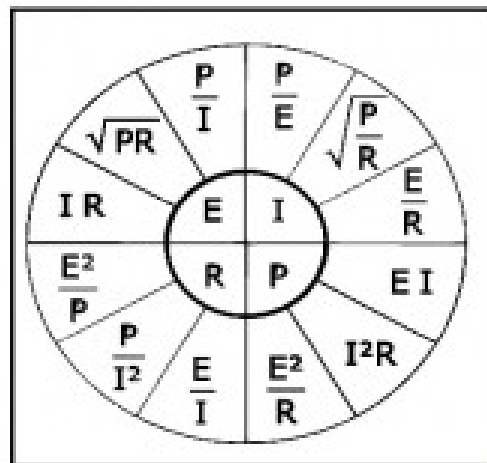
Vice-President: Tom Shehan W7TGS

Secretary: Erv Perelstein, KE7QFI

Treasurer: Pat Traber, KE7QFG

PIO: Janice Enloe, KI6WCK

And to review that math:



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

Reminders:

Club membership dues for 2015 are due at the January meeting: \$25 for individuals and \$30 for a family. Please plan to pay the treasurer at the January meeting

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

Flagstaff: Tom W7TGS, Erv KE7QFI, Mike KD8RQV

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:

17 January	(Tentative- check website for updates)
18 April	TBA
17 May	Overland Expo/Mormon Lake
30 May	License Class ???
18 July	Williams Hamfest
17 October	TBA

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

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

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

Upcoming Events:

Skywarn Recognition Day, December 6:

The Coconino Amateur Radio Club and the Flagstaff Weather Forecast Office will celebrate Skywarn Recognition Day, Saturday, 6 December. The event will begin at zero hours UTC (5 pm Friday) and last for 24 hours. We plan to operate high frequency 40 through 10 meters and 2 meter VHF. There will be control operators available, so all interested people will be able to make radio contacts.

Contact Mike, KD8RQV, at mclever_2@msm.com for schedule information. The weather office call sign is WX7FGZ. Information about Skywarn is at: <http://www.nws.noaa.gov/skywarn/>

CARC Club Christmas Party Dec. 7

The CARC 2014 Christmas Party will be on December 7, 2:00 - 5:00, at Bob and Sandy Meadowcroft's house. 4517 W. Laskin Tr. Go west on Hwy 180 (North Fort Valley Rd) one block past Snowbowl Rd. Turn left on N Lake Tr. Turn right on LaskinTr. That is the house. CARC will provide ham and chicken and drinks. Please bring a side dish and a toy (if you wish) for the Toys for Tots drive.

Next Business Meeting:

There will be no business meeting in the month of December. Our next business meeting will be January 8, 2015 at the Pulliam Airport.

Repeater Update: Repeater Interference

The intermodulation interference to the 146.980 and 147.140 MHz amateur radio 2 meter repeaters on Mount Elden continues. This interference is due to an extremely unfortunate choice of frequencies for the new FM translator on 92.3 MHz. Additional (and expensive) filtering for the broadcast transmitters has not solved the problem. The Arizona Repeater Association is working with the broadcast station management, and ARA counsels patience while solving this problem.

Joe, W7LUX

Minutes of the Coconino Amateur Radio Club

11/13/2014

Meeting Started: 7:00 pm

Guests:

1. Jason Coil, Sedona Fire Dep't, Battalion Chief, Special Ops, Rescue, SW Type I Incident Management Team Member (Ops Chief). First message to all is "PROTECT YOUR HOME!" Employ a combination of maintenance, construction and landscaping to reduce fuels around your home.

Jason started with a short history of Wildland Fires starting from about 1910 when the decision was made to save timber and extinguish fires, of any size, as soon as possible. This was called the 10 am rule, fire out by 10 am of the day of detection. This policy was in effect until just a few years ago when it was realized that fires were getting bigger and hotter and almost impossible to control. The Ponderosa Pine forest needed many cooler, smaller fires to thrive and not get completely overgrown. The current philosophy is to allow some fires, which do not threaten homes and personal property, to burn under supervision, thus thinning the overgrowth. This is called Fuel Management. We are currently using a Mixed Management Attack, meaning a blend of the fire management, (increased thinning) and political management, (less thinning for recreation and residential needs). The new theory is "Perimeter Control and Point Protection".

Jason talked a little about the upcoming PFAC Exercise which will be managed by Pinewood FD this year. It is usually held the first weekend in May and will probably simulate a Type III Incident Management Team situation with multiple stations to practice coordination between fire units. He told us that the critical times for fires in the SW are May - September, wind, slope of the land and draught being the prime factors which determine the size and heat of the fires. He said that generally Ponderosa Pine fires occur more frequently and are low intensity compared to Junipers which occur infrequently but are much higher in intensity. For more information he recommended checking the Ready.gov and the Ready-Set-Go websites. He also recommended that each of us start planning what we would want to evacuate from our homes if we had to leave.

Secretary's Report: The minutes of the October meeting were published in the newsletter. There was one correction provided by Mike Clever concerning the list of members who have been acting as NCS for the SKYWARN and ARES nets. There were 2 people left off the list, Vince in Page and Lee in Fredonia who have been holding the 7:30 SKYWARN and ARES nets for the members in the northern part of the state. Erv will correct the October minutes. Phyllis moved and Janice seconded a motion to accepted the minutes as corrected. Unanimously accepted.

Treasurer' s Report: The closing bank balance for 11/11/2014 was \$2006.16 thanks to the generous donation of \$500 from the Flagstaff to Grand Canyon 100 Mile Run management along with a very nice letter of thanks. Letter will be scanned and the original filed by Erv with our CARC History kept by the Secretary. Membership was 49, consisting of 46 paid members and 3 lifetime members. Kan moved and Bob Meadowcroft seconded a motion to accept the Treasurer's Report. Unanimously accepted.

President's Report: Sandy announced that our current meeting room will no longer be available to us after tonight. We will have to find a new meeting room. Several suggestions were put forward: Tom thought the conference room at the Forest Service Supervisor's facility on Thompson Rd might be willing to let us meet there, he will check on that. Pat recommended a church on N. San Francisco which she will check out. Erv recommended the Sizzlers north meeting room. Sandy said she would check on that location. Joe thought that the meeting room in the fire station in Kachina Village might be available and will check it out. All info will filter through Sandy and she will keep us up to date by email.

Sandy thanked all radio participants in the Girls-On-The-Run race held on Nov 8th. It was a fun, low stress operation: no injuries, nobody lost, kids had a good time.

A reminder that the Christmas Party is on Sunday, Dec 7th at the Meadowcroft's home off Hwy 180 just past the Snowbowl exit. Sandy will send out a map. It's potluck, bring a gift for Toy's for Tots if you want and we'll make sure it gets to the right people. All CARC members are invited, including those interested but are not members.

ARES Report: Joe thanked everyone who has been participating in the SKYWARN and ARES nets. He would like all members to know that they are welcome to become the Net Control Station for either or both of these nets. It is excellent practice which may become important during a real emergency. There are prepared scripts to read to make NCS a little easier.

Joe said that we are not getting very much interest from the Boy Scouts in amateur radio. He has been working with the Scouting Program, as a merit badge advisor, for several years. The Girl Scouts have shown more interest in learning CW, which he will continue with. Janice Enloe has volunteered to try to generate more interest in amateur radio with the Boy Scout .

We are still having trouble with the repeater systems on Mt. Elden. Experts from Phoenix are still working on resolving the problems. We are worried that unless these repeaters are improved, we may have a tough time with our Public Service events next Spring and Summer.

Joe reminded us of the Full Scale Exercise coming up on 18, 19 November. The emphasis this year will be on Ham Radio interface with the state and county EOCs throughout Arizona concerning weather scenarios. Our participation will be mainly on 19 November using HF (80 meters, transitioning to 40 meters in the afternoon) and VHF using the 98 repeater and the RIM LINK 14 repeater on Mt Elden.

Old Business: Another reminder of the Emergency Management State-wide exercise on 18-19 Nov. The radio part will be on the 19th. HF Communications will probably start on the 80 meter frequency and transition to 40 meters as the ionosphere dictates. On VHF we will be trying to use the RIM LINK repeater on Mt Elden, (147.14), and establish communications with the State EOC and the Phoenix Red Cross.

SKYWARN Recognition Day will be held on Dec 6th at the National Weather Service facility on Camp Navajo. Mike Clever will be organizing the club participation. He will be putting together A roster of operators for Saturday. Anyone interested, please contact Mike, KD8RQV. The NWS has radio equipment at their office or you can bring your own, if you prefer. The NEW call sign will be WX7FGC and they will probably be using 10 meters, if it's open. The objective will be to advertise SKYWARN to the country.

Pat brought up the subject of Life Membership in CARC again. She recommended that the cost be 10 years worth of membership fees. Pat moved, Ron seconded a motion to offer Life Membership to Dan Boone at no charge based on his years of excellent service to our organization. The motion was unanimously approved. Janice will write a letter to Dan, making the presentation.

Ron reported that the new website that he and Phil are updating is looking good, well organized with lots of good info. We discussed. Erv moved and Bobbie Brunner seconded a motion to put the new website link on our current website immediately. The motion passed unanimously.

We discussed the meeting of the Technical Licensing Class Committee, which was held during the hour prior to this meeting. Sandy agreed to send minutes of the meeting to the membership. Ron will put all the information about the classes, the schedules and the volunteers on the website. The cost of the class rooms will be a \$50.00 key deposit and a total of \$250.00 for the season. Joe moved and Erv seconded a motion to approve this expenditure. The motion passed unanimously.

NEW BUSINESS: No new business this month.

Joe asked if anyone had suggestions for speakers/topics for our meetings. Anyone who has additional speaker ideas please contact Joe.

50/50 Drawing Ron Gerlak won the 50/50 drawing this month.

Meeting Ended: 8:52 pm. Janice moved to adjourn, Joe seconded it and it was passed unanimously.

CARC website: Hello to all CARC members, others who read the newsletter and everyone that views our website. We have updated some of the information on the website and made technical changes to improve it. Now we need your input. If you see anything that is incorrect or if you have ideas on how the website could be improved upon please let us know. Phil Brunner and I are committed to making the site informative and user friendly. Forward your ideas to Ron Gerlak <mailto:rbgerlak@gmail.com>. Visit the CARC website at CocoRadio.org.

Arizona Full Scale Communications Exercise:

Coconino County conducted a highly successful amateur radio communications exercise during the Arizona Full Scale Communications Exercise Wednesday, 19 November. Good high frequency communications were established among:

Flagstaff Red Cross Chapter
Phoenix Red Cross Headquarters
Flagstaff Weather Forecast Office
The Arizona State Emergency Operations Center
Cane Beds (west of Fredonia)
Several Flagstaff stations
Forest Lakes
Fredonia
Jacob Lake
Marble Canyon
Page

Participants include: high frequency stations KE7QFI, KF7BRV, KD7RCJ, NJ0W, N7MLS, WB7UWW, KG7MHF, KF7YRS, N6LRG and several stations checking in on 2 meters. Special thanks to Lee, KF7YRS and wife Karen for driving about 250 miles from Page to Marble Canyon, Jacob Lake, and Fredonia and back to Page while providing portable operation from those remote locations. This exercise demonstrated we can communicate around Coconino County and with the state division of emergency management.

Joe, W7LUX

A Request for Help From Northland Preparatory Academy

We received a grant from SeaPerch for 8 underwater ROV kits. SeaPerch is sponsored by the Office of Naval Research and is a great step up from our Lego robotics that wraps up in December. The students will start working on the ROV kits in January and we will have a mini competition in May. I'm currently working with the aquaplex on reserving their lap pool for this event. Here is a website with more information. <http://www.seaperch.org/index>

Since we will be soldering and working with motors it would be great to have some extra hands and eyes to help out. We meet every Tuesday from 3:30-4:45. We might have some Saturday meetings depending on our progress.

Kaci Heins
6th Grade Science
Arizona Ambassador for Excellence
Air Force Association National Aerospace Teacher of the Year
STEM City Teacher of the Year
Northland Preparatory Academy
Flagstaff, Arizona

Ham Radio Licensing Class: Technician Level

March 7: Introduction to the ARRL, CARC
Chapter 1- Introduction and Welcome to Amateur Radio
Chapter 2- Radio Waves and Signals

March 14:
Chapter 2- Modulation and Bandwidth
Chapter 3- Electricity

March 21: VOM Operation, Battery, Diode and Resister
Chapter 3- Ohms Law. Power and the Metric System
Chapter 3- Electronic Components

March 28: HF and DX
Chapter 3- Types of Radio Circuits
Chapter 4- Propagation

April 5: No class

April 11: Antennas and Feed Lines
Chapter 4- Antennas and Feed Lines
Chapter 4- Practical Antenna Systems

April 18: Presentation of Radio Equipment, Digital Communications
Chapter 5- Basic Amateur Radio Equipment
Chapter 5- Power Sources and Interference

April 25: VHF, UHF, Repeaters, Cross Band
Chapter 6- Communication with Other Hams Parts I & II

May 2: QSL Cards
Chapter 7- License Regulations and License Privileges
Chapter 7 & 8- Call signs and Operating Regulations Part I

May 10: No class- Mother's Day

May 16: Station Grounding
Chapter 8- Call signs and Operating Regulations Part II
Chapter 9- Safety and Amateur Radio

May 30: License Exam

- Cost: Ages 21 and over- \$25, Under 21- \$10
- CARC members may audit at not charge if space available
- Ham Radio License Manual Level I Technician, 3rd edition required. Available through ARRL.org or from Joe Hobart W7LUX (928) 525-9222
- 10 Saturday mornings including testing
- Class time- 10:00AM to 12:00 Noon
- Lab time available to enhance your learning- 8:00AM – 9:50AM each class day
- Homework assignments- pre-read chapters for discussion
- Location- Northern Arizona Center for Entrepreneurship and Technology
- 2225 Gemini Dr, Flagstaff
- For additional information contact- Sandy Meadowcroft (928) 660-8323