



Coconino Amateur Radio Club
www.cocoradio.club

High-Country Static

February 2017

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

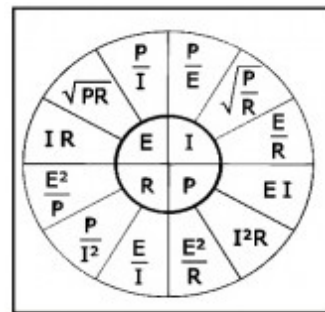
Vice-President: Sandy Meadowcroft KF4JHC

Secretary: Erv Perelstein, KE7QFI

Treasurer: Pat Traber, KE7QFG

PIO: Vacant

Newsletter: Janice Enloe, KI6WCK



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

From our Club President:

Try something new! There are so many ways to be involved in amateur radio. Contesting, ARES Nets, DXing, Skywarn Nets, ragchewing, digital communications, experimentation with building antennas....whew! The list just goes on and on! I doubt very many people have tried everything you can do in the world of amateur radio.

So pick something you haven't tried and give it a whirl. You haven't checked in to an ARES net or Skywarn Net? Super easy! Dial in to the 146.980 repeater on Monday evenings at 7 pm for a Skywarn Net. No fancy weather equipment required. Just tell Net Control it's warm, sunny, and it rained this morning if that's what the weather was. Come back to the "98" repeater on Wednesday night at 7pm for an ARES Net check in. Just listen to the check-ins once and you know what to do. Assuming you have nothing to report, it's as simple as "<your callsign>, no traffic". Easy and it gets you involved with the amateur radio community and the whole community if our services are needed.

If you like HF operating and haven't tried a contest, do it. It's almost like an addiction when you get the pile up trying to answer your CQ. Loads of fun! For most contests you will want a Logbook of the World (LoTW) account set up with the ARRL. That's how most contests are managed. And logger

software – many free versions are available. You enter your QSO information in the software and it prepares a file for uploading to LoTW. Easier than it all sounds. And if you load all your contacts in LoTW, now you have an easily accessible record of all your QSO's and QSL's. Cool!!

Doing something new can be intimidating. Doing it with someone else is just plain fun! If you have an idea of how club members can help each other learn something new, let's discuss it and do it. We need to exercise the Elmer in all of us. And all of us could use an Elmer with something we haven't tried yet. Sooooo.....let's try something new!!

Tom Shehan, KY7WV
President, CARC

Calendar of Events for 2017:

January

- 21 Amateur Radio Examinations at North Country Health Care
Held 28 January due heavy snow on 21 January

February

March

- 6 STEM Celebration Day at NAU Skydome

April

- 22 Amateur Radio Examinations at North Country Health Care
- ?? PFAC Wild Lands Fire Exercise; waiting for more information

May

- ?? Arizona ARES/RACES Full Scale Exercise
- 12-14 Overland Expo: Demonstrations and Amateur Radio License Examinations
At Fort Tuthill

June

- 3 Sacred Mountain Prayer Run
- 24-25 Field Day (KG7OH & Team)

July

- 4 Munds Park Parade
- 16? Snow Bowl Hill Climb
- 22 Amateur Radio License Exams at North Country Health Care

August

- 1 National Night Out (First Tuesday in August)
- 5 Toys for Tots/Fat Tire Bicycle Ride
- 12 Big Brothers/Big Sisters Run for the Magic
- 27 Arizona Trail Marathon at North Rim

September

- 4 Williams 10K Labor Day Run
- 23-24 Flagstaff to Grand Canyon 100 Mile Run

October

- 14 Soulstice Mountain Trail Run
- 21 Amateur Radio License Exams at North County Health Care
- 30- Nov 1 MARS COMEX

November

- ?? Arizona ARES/RACES Full Scale Exercise
- 11? Girls on the Run

December

2 SkyWarn Recognition Day at NWS Belmont (UTC date)
10? Christmas party

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, Mary Lou Hagan, KG7TPK
Mike Clever, KD8RQV, Phil Brunner, AE7OH

Page: Eric Kg7UNI, Nancy KG7WKS 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 2017:

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).

April 22 Amateur Radio Examinations at Northern Country Health Care

May14 Overland Expo: Demonstrations and Amateur Radio License Examinations
At Fort Tuthill

July 22 Amateur Radio License Exams at North Country Health Care

October 21 Amateur Radio License Exams at North County Health Care

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

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

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

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

Next Business Meeting:

Our next business meeting will be February 9, 2017 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

1/12/2017

Meeting Started: 19:00

Guest Speaker: Rick Paquette, W7RAP, Served as ARRL Assistant Section Manager since 2004. He is a candidate for AZ 2017 Section Manager Election. The major points he made were: his desire to continue expansion of ARRL membership and licensed HAM operators; his thoughts on AZ becoming a Division; and his desire to develop a network of "Amateur Ambassadors" in AZ assigned

to "Link-Up" new HAMS to local and statewide clubs, organizations, activities and adventures. His email is w7rap@arrl.net.

Secretary's Report: Since the minutes of the November meeting were published in the newsletter and there was no meeting in December, there was no need for them to be read. Mary Lou Hagan made a motion and Pat Traber seconded the motion to accept the minutes as written. They were approved unanimously.

Treasurer's Report: Pat Traber, our club treasurer, gave the Treasurer's Report. The closing bank balance was \$1,673.29. Membership is 28 members, consisting of 24 paid members and 4 lifetime members. Since there was nothing additional for the Treasurer's Report, Scott Martin moved and Mike Clever seconded a motion to accept the Treasurer's Report. Unanimously accepted.

President's Report: After member introductions, Tom Shehan, our CARC President, told us that we have purchased a replacement CARC Operations Trailer, thanks to Ken Held for finding a very good, used trailer for us. We need a construction design for the inside operating stations, storage, etc. He said that we would appreciate anyone who would like to help. Scott provided some pictures of the inside of our current trailer to use as a starting point. Scott also made an inventory of equipment from the old trailer to see what we can use in the new one and what has to be purchased.

Tom also reminded us that, thanks to Bill Smith's generous donation, we now own a tower, with rotator and antenna. He suggested that we have a 60 day open bid offer to sell this equipment with responses to Tom.

Tom has put together a draft of a document for interfacing with Race Directors, letting them know what we will provide and what we expect from them. He asked us to review the document and make any suggestions for changes before he finalizes it.

Tom would like to get the teaching a practicing of digital comm. back on the agenda. We could start using FLDIGI and APRS or any other program you might prefer.

Vice President's Report: Sandy could not attend the meeting so there was no Vice President Report tonight.

Old Business: Tom reminded us that we still need a Public Information Officer, or co-PIO Officers, especially for activities like Field Day and to keep our Facebook page up-to-date. Phil Brunner will continue to keep our web site up-to-date.

Tom also reminded us that our next Tech License class will be coming up in March. Sandy Meadowcroft will send us an email with the schedule dates and instructors. The dates are March 11th, 18th, 25th, April 8th, 18th, 22nd, 29th and May 13th. Classes will be in the North Country Health Care Conference Room and we need to bring our own laptops.

A question was asked about the status of the Cameron Half Marathon we were asked to help with. Tom said he has not received any further information about that race and that it may have been dropped.

Upcoming Project Review:

New Business: The only new business this month is the design and building of our new trailer, discussed under the President's Report.

ARES Report

Joe reminded us that the next Licensing Exams will be held on Jan 14th and again on April

15th, in the North Country Health Care facility, thanks again to Bill Smith.

Joe is trying to coordinate an exercise with the Alternate EOC near Buffalo Park to practice connecting our equipment to the existing coax cable and installing our antennas. He will let us know when a firm date is assigned.

It appears that the PFAC Exercise will not include us this year.

Joe inquired about additional MARS exercises with HAM stations providing disaster information to MARS operators. Erv told him that MARS runs 4 exercises per year, one each quarter but the objectives of each exercise are not advertised until the actual Ops Order comes out. Erv said he would keep all informed about the cooperative efforts.

Joe told us about plans for a State Wide HF ARES exercise to be held this year. He will keep us informed about dates and objectives of the exercise.

50/50 Raffle: Rick Paquette, our guest speaker won the raffle and donated \$23.00 back to the club.

Scott moved to adjourn, Bobbi Brunner seconded the motion. It was accepted unanimously. Meeting closed at 20:45.

Why Public Service Operators Should Participate in Contests

By Marty Woll, N6VI

Contesting helps prepare us for demanding communication environments and tasks such as might be encountered during a major disaster. Contesting hones important emergency/disaster communications

skills:

- Hearing, understanding, and recording information quickly and accurately.
- Extracting information from weak signals or through interference and noise.
- Establishing and completing contacts with rapid efficiency.
- Finding workarounds when the unexpected happens, rather than giving up.
- Knowing how to get the most out of your equipment and antennas.
- Understanding propagation and making those tough long-haul contacts.

Each contest has its own unique rules that define the challenge. There are specific starting and ending

times, encompassing operating periods as short as four hours or as long as two days. Eligible stations

(those with whom contacts count for contest credit) may be confined to a specific state or country or may include all hams worldwide.

There is a defined exchange, a set of information that must be sent, received, and logged accurately.

Exchanges can be as simple as three or four characters or as complicated as a lengthy data set that simulates the message header in a formal Radiogram.

Each contact adds points, and often there is a “multiplier” for each geographic area contacted. The sum

of contact points times the sum of multipliers yields the final score. Participating operators usually submit their contest logs to the sponsoring organization in electronic form, which enables rigorous cross-checking for accuracy and facilitates timely publishing of the results.

Contests are not limited to the HF bands that are primarily the domain of many General-class and higher

licensees. There are VHF, UHF, and even microwave contests, all available to holders of every class of

license. If you think that the 2 meter or 70 cm band is limited to supporting nearby and repeater contacts, you’re in for a surprise! Communication over hundreds of miles and more is possible with suitable antennas and equipment. By participating in these competitions, you will learn what works best

and how your station’s effectiveness can be improved.

You don’t have to be in it to win it; just take part, and have fun while you’re learning to enhance your and your station’s performance. We can identify and correct weaknesses in our stations, evaluate the impact of equipment and antenna changes, and push ourselves to solve real-time communication problems as

efficiently as possible, as would be demanded in emergency/disaster situations.

Permission to copy from ARRL:

Hi Joe.

This is okay. Please include credit - used with permission, ARRL Operating Manual; copyright ARRL.

Thanks.

Maty Weinberg, KB1EIB

Production Coordinator

ARRL: the national association for Amateur Radio™

225 Main St

Newington, CT 06111

email: maty@arrl.org

Tel: 860-594-0229

Fax: 860-594-0259

Feb. 23,
2016

Technician Class Spring 2017 9:00 AM - 12:00 PM

Session	Module	Chapter and Topics	Instructors
Mar. 11	1	1 - Chapter 1 - Introduction and Welcome to Amateur Radio	Sandy
	2	2 - Chapter 2 - Radio Waves and Signals	Sandy
	3	3 - Chapter 2 - Modulation and Bandwidth	Sandy
Mar. 18	4	4 - Chapter 3 - Electricity	Sandy
	5	5 - Chapter 3 Ohms Law, Power and the Metric System	Sandy
Mar. 25	6	6 - Chapter 3 - Electronic Components	Erv/Phil
	7	7 - Chapter 3 - Types of Radio Circuits	Erv/Phil
Apr. 8	8	8 - Chapter 4 - Propagation	Erv
	9	9 - Chapter 4 - Antennas and Feed Lines	Jack Lunsford
	10	10 - Chapter 4 - Practical Antenna Systems	Jack Lunsford
Apr. 22	11	Chapter 5 - Basic Amateur Radio Equipment	Ron
	12	12 - Chapter 5 - Power Sources and Interference	Ron
Apr. 29	13	13 - Chapter 6 - Communicating with Other Hams Part 1	Ron
	14	14 - Chapter 6 - Communicating with Other Hams Part 2	Tom
13-May	15	15 - Chapter 7 - License Regulations and License Privileges	Bobbie
	16	16 - Chapter 7 & 8 - Call Signs and Operating Regulations Part 1	Bobbie
20-May	17	17 - Chapter 8 - Call Signs and Operating Regulations Part 2	Tom
	18	18 - Chapter 9 Safety and Amateur Radio	Tom

Licensing
Exam