

MEETING MINUTES June 10, 2024,

Salvation Army, 10725 Alta Street, Grass Valley

doors open at 6:30pm - no Zoom this meeting (see links to YouTube videos below)

1.0 President calls meeting to order at 7 PM

Pledge of Allegiance

2.0 Welcome to Guests, & New Amateur Radio Operators - none

3.0 Attendees Roll call - Name and Callsign - 14 members present, no zoom this meeting

4.0 Special Presentation - Ken KA6SUB

Roger McCort N7CXG was presented with a certificate of appreciate as he leaves Grass Valley for a new assignment.





5.0 Membership, Treasurer, & VE Report - Chuck KI6CM

68 members, \$6,366.03 balance, No Registration yet for June 15 VE session

6.0 June Presentation - 2 YouTube videos!

Two YouTube ham radio videos were shown and discussed. Member comments and experience were shared after each of these videos. Peter N6ERL provided clean copies without advertisements of these videos for this meeting - thanks.

Antenna Engineer Verses Ham Radio Antenna Myths! True or False? 6 minutes
this has a test with 11 true/false questions - see the end of this agenda
<https://www.youtube.com/watch?v=pTPHpW2NugM>
reference source: <https://www.k3emd.com/downloads/Reflect.pdf>

(see True/False questions attached to this report.) The Author says all statements are true. What were the assumptions of the author? Does the configuration implied in the statements consist of a transceiver, antenna tuner, feedline, and antenna? Why do company manuals state that high VSWR may damage a rig? Not all statements may be true in all cases, but no rig damage will occur if the rig is unplugged! A lively discussion was held.

The G5RV Antenna Story - The Design, the Facts and the Myths! 24 minutes
<https://www.youtube.com/watch?v=I28XUmbUXsA>

The author provided background and technical qualifications for Louis Varney G5RV and his antenna design that has stood the test of time since its introduction in 1984. The antenna was designed for 10-80 before 15 meters was authorized. The author points out that Louis's backyard size nicely matches the antenna length! The antenna requires an external tuner for some bands and might work much better if fed by twin lead all the way to the tuner. Many other aspects of the antenna are discussed in the video.

Short Break following the presentation

7.0 Old Club Business

The May 13, 2024 Club Meeting Minutes were approved.

Other old business? none

8.0. New Club Business

- Repeater Report - John AB6LI or Dan W6AI: None
- Net Report - Ken KA6SUB: Paul W6PBO will be the 1st Tuesday net control
- ARES Report - Peter N6ERL: ARES added another new member
- Media Report (website and Ham&Coffee) - Cal AI6MC: nothing new, check out the website
- Facebook Report - Phil W6PD: FB had a posting problem which may have been resolved by Phil.
- June 1 Rotary Club Ride - Brian K06BCK

Thanks to the following members who made this event successful:

KE6FIQ	John Hart
WA6NHN	Henry Tardif
W6FTC	Tom Cade
WiKI6CM	Chuck Murphey
WA6YCD	Eva Ruben
KB6PUK	Jim Flaherty
KZ6B	Alan James
KM6IUK	Charles Zimmermann
KN6OPC	Jeff Olson
KO6AKE	Geoff Richard
W6PYJ	Kent Williams
MKN6DZE	Noah Campbell
N3BEN	Ben Soper

Ride Summary:

NCARC provided 8 1/2 hours of support (6:30-3)

13 Members participated

Radio interviews were conducted with KNC0 94.1, and an extended interview with ARES was requested.

Noah KN6DZE was a sweep rider (on bike) to follow up the rear.

The race comm support was all battery operation.

Ben N3BEN provided assistance using his truck.

Kent W6PYJ did the 54 miles on bike

Bob Long the coordinator expressed his appreciation for the support provided.

A better method for signing up and confirming positions will be set up for next year.

2024 Leader Bryan K06BZK volunteered to lead next year's project

2024 was a Success!!!

NCARC Radio Ops		2024 Rotary Gold Country Challenge Bike Ride					
Sat June 1, 2024							
Location Assigned	Sched Time	Call Sign	Full Name	Phone	email	Confirmed y/n	Notes
NetCtl Fairgrounds	7:00 AM	KE6FIQ	John Hart	530-277-9561	johnhorama@gmail.com	Yes	
NetCtl Fairgrounds	7:00 AM	WA6NHN	Henry Tardif	530-271-2019	henry_tardif@msn.com	Yes	
N San Juan 49/Oaktree	8:30 AM	W6FTC	Tom Cade	916-265-8691	ftcade@gmail.com	Yes	
Williams Ranch School	9:15 AM	KI6CM	Chuck Murphey	530-575-8624	ki6cm711@gmail.com	Yes	
Williams Ranch School	9:15 AM	WA6YCD	Eva Ruben	916-996-6969			Left msgs
McCourtney/IndianSprings	10:00 AM	KB6PUK	Jim Flaherty	530-263-1549		Yes	
McCourtney/IndianSprings	10:00 AM	KZ6B	Alan James	530-263-4996		Yes	
McCourtney/IndianSprings	10:00 AM	KM6IUK	Charles Zimmermann	530-272-1158		Yes	can elmer
Magnolia School/Combie	11:15 AM	KN6OPC	Jeff Olson	530-575-2279		Yes	backup
Magnolia School/Combie	11:15 AM	KO6AKE	Geoff Richard	530-263-2889		Yes	call back
Mobile rider in event		W6PYJ	Kent Williams		radiow6pyj@gmail.com	Yes	54 mile rider
Mobile rider-sweep		KN6DZE	Noah Campbell		ore_13@yahoo.com	Yes	sweep rider
Floater from fairgrounds		N3BEN	Ben Soper	707-592-2483	soperbenjamin@gmail.com	Yes	former club member floater
NCARC Coordinator	7:00 AM	KO6BCK	Bryan Watson	408-373-5751	hacknow@gmail.com		Fairgrounds and floater
Rotary Staff - Ride Director			Bob Long	530-913-0287	BobLong162@gmail.com		
Rider Emergency - 530-876-6480							
Instructions				Radio Frequencies			
1. Arrive at your location and check in with Net Control				Main Freq. 147.285 PL 136.5 or 151.4			
2. Net Control will conduct station checks approx. every 15-20 min				2nd Choice 147.015 PL 151.4			
3. Report to Net Control when the first group of 5 or more come though.				3rd Choice 147.045 PL 77			
4. Report any Emergencies or need for assistance.				Simplex 146.430			
5. Before you secure your station for the day, request permission first.							

- June 22-23 ARRL Field Day - Cal AI6MC

NCARC members will do field day on June 22 at the Omega site on Highway 20. This will be a fun event but not for serious contesting. Cal AI6MC will bring sandwiches and drinks - early risers are expected by 9 with likely wrapup after 3. This will be a chance for members to have tech's and others make HF contacts (with local user coordination on 20 meters)! Bring a chair and restrooms are NOT provided- that didn't come out right.... Members are to use their own call signs. BYORAA bring your own radios and antennas.



photo by Bryan K06BZK

- Aug 7-11 Nevada County Fair - Ken KA6SUB

Ken KA6SUB has a signup sheet for 4 hour shifts starting at 9 AM. Several slots are still open. The Salvation Army will provide the booth fee and the club will have Salvation Army brochures on hand to distribute. It is hoped that the booth can be staffed daily by 3 members each shift. Member entry and parking fees will be provided or reimbursed by the club.

9.0 New Business, Questions or any other discussion - none

10.0 Close of the Meeting at 8:30

KA6SUB provided Ice Cream and Board Members add toppings!!!

Note:

- Room will be open for 15 or 20 minutes for one-on-one discussions*
- Members with Events or other notes for future Agendas, please email wa6nrg@yahoo.com*

minutes provided June 11 by John wa6nrg - provide errors and corrections to wa6nrg@yahoo.com

Questions for Video 1: True or False?

- 1. Reflected power does not represent lost power except for usually minor losses with low loss coax cable in the HF bands.**
- 2. Reflected power does not flow back into the transmitter and cause damage.**
- 3. Any effort to reduce an SWR of 2:1 on low loss coax in the HF bands will not significantly increase power to the antenna.**
- 4. Low SWR is not proof of a good-quality antenna system. On the contrary, low SWR over a range of frequencies is a sign of problems.**
- 5. An antenna does not need to be resonant for maximum current flow. The feed line need not be any particular length.**

6. If a transmatch cancels all the reactance in a non-resonant antenna the entire system is resonant.
7. The majority of towers in commercial AM radio stations are of heights that are non-resonant.
8. An antenna tuner, or transmatch, does not change the SWR on the line between the tuner and the antenna.
9. A properly adjusted antenna tuner changes the phase of reflected power adding it to forward power.
10. At the antenna tuner, reflected power undergoes a phase reversal and complete reflection back to the load. It is not dissipated in the transmitter.
11. High SWR will not cause a coax line to radiate.