



LODI AMATEUR RADIO CLUB NEWSLETTER For July 2022

Club Meeting July 7th

The Lodi Amateur Radio Club meeting will be Thursday, July 7th, 2022
6:30 PM at Casa Flores Restaurant 400 E Kettleman Ln, Lodi CA.

The meeting starts promptly at 6:30. If you plan to eat dinner then arrive early as usual.
We do plan to have a raffle so bring your piggy banks!!

COVID 19 Procedures: Mask is optional your choice

If you are uncomfortable attending a group function, please stay home. Don't put unnecessary stress on yourself.

We will attempt to have the tables in the banquet room arranged as tables of 6 persons each, with the tables spaced apart.

Post meeting notes will be sent, via email, to all club members.

Now Hear This!

*K6AAN, Mike Dugger, Club President
President's Corner*

Greetings Club Members and Friends,

Our past two club events, Museum Week/Kid's Day and Field Day both went really well. After attending both events, I was very proud of our members that came out to participate, each in their own special way. Teamwork was prevalent and a very upbeat, positive attitude prevailed. This was all in the face of dealing with new locations, challenging band conditions, and high summer temperatures. It has sure been rewarding to get out and use our radios while interacting with the public, especially with all those kids at the County Museum. I have received very positive feedback from Evan Sust, the director of the museum, thanking us for what we did out there. We were invited to come back next year and I assured him that several of our group would be interested in doing that. We also received compliments from Craig Thompson and other members of the farming family that own the Peltier Rd. site we used for Field Day this year.

Many thanks to all of our members that have been attending the monthly meetings and have supported the raffles. Raffle participation has been great and the extra income has enabled us to purchase some very nice equipment for club use. The board of directors will continue to acquire more items needed to be sure we are prepared to go afield with our equipment whether it be for fun or a real dire situation. Our next

club meeting will be on July 7 and we will have a post op discussion about Field Day. There will also be some special new business regarding a vote on special items of appreciation for two of our members that have made truly outstanding contributions to the club lately. Hope to see many of you there for the meeting.

73

Mike
K6AAN

N6NFP, Skip Chraft Club Treasurer

NEW MEMBERS, CHECK YOUR EXPIRATION DATE

Here's a reminder for our members who have joined since January 1, 2021: don't forget that as a first-time new member, your dues are paid up through December 31st of the following year. For example, if you joined at any time in 2021, you're good until the end of 2022. Your next payment is due on 1/1/2023.

This is an obvious benefit for first-time members, plus it keeps the bookkeeping simple for the treasurer: all dues are on a calendar-year renewal basis. It's a win-win for both new members and those who have to keep track of things.

The hard part for some is remembering that you have the benefit. It's rather normal for the treasurer to receive a dues renewal payment that isn't due, i.e. from a new member who joined early in 2021 and thinks he has to renew in 2022. His payment shows up, and now the treasurer has to deal with the over payment.

So please remember, a new member's first renewal payment is due at the end of the year following the year in which you join. This information is found on your receipt when you make your initial dues payment. It's also on the new member application form, in our Bylaws, and it has been stated numerous times in our newsletters.

If any member has a questions concerning the club's dues, the treasurer is at your service. Just send an email inquiry to LodiHams@gmail.com.

HOW TO PAY YOUR DUES OR OTHER PAYMENTS VIA PAYPAL

Dues are \$20 single, \$25 family.

PayPal payments

1. Log into your PayPal account.
2. Click the blue "Send" button.
3. In the 'Send money' field, enter: LodiHams@gmail.com
4. Click the blue "Send to" button with the envelope graphic.
5. Enter your dollar amount. (It will replace "\$0.00")
6. Important: in the "Add a note field", enter an explanation of what you're paying for plus your name and call sign (if any). See note below.
7. On the next screen, note "Paying for an item or service." Don't change it, or you may be charged a transaction fee.
8. Follow the prompts to complete your payment.

Note: please do not skip step #6.

Without it, the only information we get about the source or reason for your payment is the email ID that sent it, and that's not enough.

Payments can also be mailed to N6GKJ Ron at:
1418 Bordeau Dr, Lodi, CA 95242
Make checks out to; Lodi Amateur Radio Club

ARRL Membership

There is a distinct advantage to our club in having a majority of our members as American Radio Relay League members. If you're not thoroughly familiar with the ARRL follow this link - <https://www.arrl.org>

For now, you can help the club a great deal by letting us know whether you are a current ARRL member. Please send an email message to LodiHams@gmail.com with your call sign if you are a member so that we can note it on our roster. If you have a family membership in the league, include the name/call sign of your family members who are covered by your ARRL family membership.

Thank you in advance for responding to this request.

N6GKJ, Ron Simpson, Club Technical Director:

Changes to WB6ASU Repeater System

As some of you have noticed, the repeater system although working is not quite up to par. There are still some issues yet to be resolved. We have developed an issue with the time clock giving the wrong time. It could be as simple as a power spike glitching the clock board. The next trip to the repeater site will be to look into this and implement a fix. We still have more work to do up there. New antenna to be installed and duplexer alignments for VHF and UHF.

I am still putting together the 900 MHz repeater for Bear Mtn. There is a slot in the cabinet already set aside for it

We appreciate your patience with our issues.

Technical update to our Packet Radio Network

As some of might be aware, the LODI03 Packet Node has failed after many years of operation. Since BEAR03 is working very well, Tom WA6OSX has decided to pull that gear and replace it with something more useful. We will be installing an APRS UIDIGI in its place on 144.39 MHz. This new node will operate using the WIDE1-1 mode. This will be a full digipeater.

I have the node gear in my possession right now, it will go online shortly. Those of who play with APRS should appreciate this fill-in node.

Tom Daley, WA6OSX is continuing to test the packet node on Bear Mtn. We have determined that the 2M repeater TX is causing an issue with RX performance in the packet transceiver. We will be installing a filter to help mitigate the issue.

As of Sunday, March 27, 2022 the packet radio transceiver at Bear Mtn. was replaced and a battery backup system was installed. All is working great and back to normal.

As of Saturday, February 12, 2022 we now have 145.03 MHz operational on Bear Mtn. This node is labeled as bear03.

As of Friday Nov, 26 2021 the packet node frequency on Gopher Ridge has been changed to 145.07 MHz, the reason for the change is in keeping with the statewide plan to keep emergency communications on 145.07 MHz. Secondly this frequency is not as busy as 145.03 MHz.

Sites and Frequencies for the N6SJV Packet Network:

Lodi - 144.39 MHz n6sjv-1 APRS Digi
Gopher Ridge - 145.07 MHz GOPHER (Statewide Emergency)
Bear Mtn - 145.03 MHz bear03

There will be a WinLink2000 Server tied to 145.03 MHz for San Joaquin County. The location of this server is still TBD

Introduction to Satellite Communications

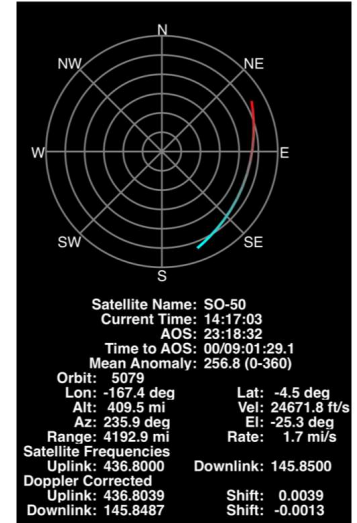
Are you looking for something new and challenging? Try working FM satellite repeaters. In time you may want to add directional antennas, or a dual receive radio, but you probably already own enough equipment to get you started. I highly recommend two websites that cover all aspects of satellite operation. Taken together, they contain a wealth of information.

<https://www.amsat.org>

<https://www.work-sat.com>

When I first started in amateur radio, I learned about effective communication by listening, a lot. The same is true for satellite operation. Before you can listen, you will need to find a satellite. The answer is on your computer, tablet, or phone. There are apps available that will alert you to upcoming satellite passes. I use an app on my iPad and iPhone called HamSat. I think a newer version is called ProSat. They are inexpensive apps and can be configured to follow any satellite(s) that you choose. I am certain there are similar apps for Android users. The two screenshots below refer to a SO-50 pass.

What's Up?	Done
XV-2A: TLE#: 40903 Sunday 2022/07/03 Sun El: -12.5 AOS: 21:42:50.2 Az:142.5 El:10.0 TCA: 21:45:41.7 Az: 74.2 El:35.7 LOS: 21:48:33.8 Az: 6.3 El:10.0	>
RS-44: TLE#: 44909 Sunday 2022/07/03 Sun El: -20.9 AOS: 22:44:34.9 Az:241.9 El:10.0 TCA: 22:50:57.0 Az:292.9 El:24.0 LOS: 22:57:39.8 Az:343.9 El:10.0	>
AO-95: TLE#: 43770 Sunday 2022/07/03 Sun El: -21.3 AOS: 22:51:24.5 Az:182.7 El:10.0 TCA: 22:55:26.6 Az:260.2 El:52.8 LOS: 22:59:31.2 Az:337.9 El:10.0	>
SO-50: TLE#: 27607 Sunday 2022/07/03 Sun El: -24.0 AOS: 23:18:32.3 Az:159.9 El:10.0 TCA: 23:22:03.6 Az:110.1 El:21.7 LOS: 23:25:40.9 Az: 60.5 El:10.0	>



In the screenshot above AOS is Acquisition of Signal, TCA is Time of Closest Approach, and LOS is Loss of Signal.

Of course, once you know the path the satellite will follow, you will need a radio. Satellite repeaters receive in UHF and transmit in VHF or vice versa. A dual receive handheld with an aftermarket (longer) antenna will do the job, especially if you are only listening. The work-sat website has information on satellite frequencies. The tutorials on the website will also help you with Doppler shifts on UHF frequencies. (Remember to hold the antenna perpendicular to the position of

the satellite.) You may also be able to use the FM radio in your shack. A good vertical antenna can pick up satellite passes, especially if they are lower in the sky like the sample in the screenshot above.

I recommend three good “starter” satellites, SO-50, AO-91 (only in daylight) and ISS. If you study the AMSAT website, you will find others, but these three have been dependable.

Once you have mastered locating and listening to satellites, the next step is attempting to make a contact. A discussion for next time. Please contact me if you have any questions. I can even set up a demonstration for a small group if we can agree upon a time.

73,
K6ZZD, Barry

N6TCE, Bob Officer, Club Net Director
Lodi ARC Net Director Corner

We have made it to the half way mark for the year. We are currently running about 16 check-ins behind last year at the same 26 week mark. Please make sure to remind any Hams you know the Time , Day and frequency of the Net. The Lodi ARC Simplex net continues to grow. Everyone appears to be working on improving their stations so that in an emergency we are not dependent upon the repeater. The Simplex Net continues to be a benchmark for distant stations as to how well they can heard and be heard.

Expect to hear a returning feature to the 1900 Wednesday Night Net. Dave, WB6TOU, has agreed to start doing a short report on space weather. This type of report was done by Shirl Rose – (AA6K /SK) and when he moved back East, Jim (Wb6BET /SK) took up task for doing a Space Weather report.

Thank you Dave for Stepping up. As the Net Director for the club nets, my direction from the board of directors is to make the net interesting and informative. To meet that charge I am still looking for someone to make a brief Contesting and DXpedition report for the weekly net. I can help by providing a basic template to follow. Can some one give it try?

Tentative Net Controls for the next three months. Substitutions are possible.

July
7/6 – KN6STN
7/13 – K6ZZD
7/20 – N6TCE

August
8/3 – KK6ES
8/10 – KN6STN
8/17 – K6ZZD

September
9/7 – K6ZZD
9/14 – KN6STN
9/21 – N6TCE

7/27 – K6AAN

8/24 - K6AAN

9/28 – K6AAN

8/31 – KK6ES

We are getting lots of interest outside our area. That is a good thing. It means our club and the repeater users are open and welcoming. Keep up the good work.

Nets and Club memberships are interlocked in so many ways. When you find a robust club sponsored net and you are more likely to find a large and active Club.

Thank you all for checking into the net each week.

Bob Officer, N6TCE
Net Director

N6TCE, Bob Officer,
San Joaquin Co. ARRL Emergency Coordinator

News and the Ground Truth

Hello all we are slowly growing ARES into a group with can be a useful tool for our Local and State Emergency Managers.

May and June has seen a change in the San Joaquin County's OES Office. I am looking forward to working with New Director of Emergency Operations (Tiffany Heyer).

Most of the SJCARES members have received copies of the FEMA Region 4 and 6 Exercise dealing with a Cyber attack on communications infrastructure. I have taken that plan and I am currently in the process of scaling it from a multi regional exercise to a county wide exercise using a standardized report form that will be sent via RF (VHF). This will be used to create a map of observed outages. This type of reporting is called "**Ground Truth**". More and more agencies are looking for these "**Ground Truth**" reports. Our exercise may take place in November.

October will see the Great California Shakeout exercise as a "**Ground Truth**" report for the United States Geological Service, especially if you take the time to fill out the 'Did You Feel It' report. This can be done either on the web or via Winlink.

Even if you are not a members of ARES or any other group, and if there is quake and you feel it please fill out a DYFI report.

Recent bad weather had a low energy tornado sighting. It was called in by Mike, K6ANN. Mike is a registered member of SKYWARN and also a registered and trained reporter to the NWS.

This training is available to anyone from the Nation Weather Service and comes at no cost to you. These reports represent a valuable "**Ground Truth**" report to the NWS.

Training to be a SKYWARN member can be found here as an on-line class and test.

<https://www.weather.gov/SKYWARN/>

and

<https://www.wrh.noaa.gov/sto/spotter/index.php>

The future also will have the August 25 Delta Regional Exercise. Properly trained Amateur Radio Operators will be used to pass messages from Field Operations to County OES Operation Center and between different different counties' Operation Centers. ARES has been invited to participate in the exercise. I will pass on the information and details when as is published.

Keep in mind the October Great Shake Out. Pencil in the Date October 20th on your calendars. The USGS will be looking for ground truth information from the drill.

Remember the goal is to be Amateur Operator that is trained to fill the seat of professional communicator. We all need the standard ICS-100, 700, 200 and 800 certificates. Those are all on-classes. Before any Emergency Manager will allow you to volunteer, you must have those minimum classes. That is so we understand the frame work and standardize language used.

Bob, N6TCE
ARRL Emergency Coordinator
San Joaquin County

Why I Became a Ham

Share your story with us, if you are willing to write a few paragraphs about why you became a ham radio operator and what you you would like to achieve, we would be happy to hear your story. Please submit your story to n6gkj1@gmail.com no later than the 25th of the month!!

Club Nets

Wednesday

2M Simplex net: 147.090 MHz (simplex) 6:30 pm

2M Club net: 147.090 MHz (repeater, PL 114.8) 7:00 pm

Mark Your Calendar

January

1 - Straight Key Night

2 - Kids Day

2-3 - RTTY Roundup

6 - [Lodi ARC Club Meeting](#)

16-18 - January VHF Contest

February

3 - [Lodi ARC Club Meeting](#)

5 - Lodi ARC VHF Packet Discussion

8-12 - School Club Roundup
20-21 - International DX – CW

March

3 – Lodi ARC Club Meeting
5 – Lodi ARC VHF Packet Discussion Continuation
6/7 - International DX– Phone

April

7 – Lodi ARC Club Meeting
16 – ARES Packet Day
18 – Rookie Round Up Phone

May

5 – Lodi ARC Club Meeting
15 – Lodi ARC VHF Packet Discussion Continuation
22 – Lodi ARC Mobile round-up

June

1 – Lodi ARC Club Meeting
12-14 – June VHF Contest
18 – Museum Day at Micke Grove
26-27 - 2022 ARRL Field Day

July

7 - Lodi ARC Club Meeting
9-10 - IARU HF World Championship
17 - Lodi ARC VHF Packet Discussion Continuation

2022 Year at a Glance (minus state QSO parties)

1/1 - Straight Key Night

1/2 - Kids Day

1/2-3 - RTTY Roundup

1/16-18 - January VHF Contest

2/8-12 - School Club Roundup

2/20-21 - International DX – CW

3/6-7 - International DX– Phone

4/18 – Rookie Roundup Phone

6/12-14 - June VHF

6/19 - Kids Day

6/26-27 - Field Day

7/10-11 - IARU HF World Championship

8/7-8 - 222MHz and Up Distance Contest

8/21-22 - 10 GHz & up Round 1 (contest)

8/22 - Rookie Roundup – RTTY

9/11-13 – September VHF Sweepstakes

9/18-19 – 10 GHz & up Round 2 (contest)

10/18-22 – School Club Round Up

10/23-24 – EME 2.3GHz and up contest

11/6-8 - Nov. Sweepstakes – CW

11/20-22 - Nov. Sweepstakes – Phone

11/20-21 - EME - 50 to 1296 MHz Contest

12/3-5 – 160 Meter Contest

12/11-12 - 10 Meter Contest

12/19 – Rookie Round up CW Contest

12/18-19 – EME 50 -1296 Contest

LodiARC Virtual Swap Space

The following items are from the Estate of Jim Seiferling. These items are for sale. All interested parties will have to make contact via the listed email address only.

DO NOT CONTACT Emilia directly, She has asked to not be involved in this process

Elecraft KX3 - \$1500

Used Elecraft KX3 in excellent condition. Bought from Elecraft fully assembled.

Includes:

[KXFL3 Roofing Dual Bandwidth Filter for SSB/CW/DATA](#)

[KXAT3 Internal, Wide-Range 20-W Automatic Antenna Tuner](#)

[KXBC3 NiMH Charger](#) (w/ fairly new Panasonic eneloop BK-3MCCA 1900 mAh rechargeable batteries)

[KX3-2M Internal 2-Meter Module](#) (I installed this)

MH3 Microphone

KXUSB-a cable

12V power cable

Operating Manual

Extra Items Included:

Low Rider stand by SOTA beams

KX3 Nifty Mini-Manual

Book: The Elecraft KX3- Portable by Fred Cady KE7X

Contact Ron Simpson, N6GKJ n6gkj1@gmail.com for information

Bioenno Based Battery Box with N8XJK Super Booster - \$575 obo

This battery box kit was used by Jim very successfully without fail or disappointment. To build this same system would cost \$750 or more. Includes brand new battery charger. This is a good value!

Contact Ron Simpson, n6gkj1@gmail.com for information

The above items are used ad in known good working order.

High Power HF Amplifier – Make reasonable offer

The Amplifier is: Ameritron, AL1200, covers 160-15M, with an easy convert to 10M. Factory wire for 220-240V. Runs a very cool 1200 watts output, 1/2 hour 1500 Watts. Driving power approx 100w for FULL output. Weighs 77 lbs, 18 1/2X 17 X 10.

Date of purchase 8-12-91.

Was used approx from purchase date until approx. 2005, approx 3 hours a week during that time. Has been sitting idle in shack since. I no longer need high power.

New AL-1200's from MFJ (Ameritron) are approx \$5,999.95.

I also have the QSK-5 (new) but haven't installed it.

If any one is interested they will have to make an offer, until I can find what used ones are going for.

Contact Mike Zane, n6zw@comcast.net