

August 2021

In This Issue

- From of the desk of the editor.
- President's message, KK6CPN
- Minutes for July Face-to-face meeting
- Treasure report
- ARES report
- Ham Cram information
- ARRL EC-001
- Featured Article
- Community Events



Volume 42, Numbers 8

From the desk of *The Readout* editor John Otte, K6JRO

Welcome to another edition of The Readout!

How many antennas do you have on your roof? Do you take pride knowing that you have amassed a generous antenna farm? Did you know that we are now required by the FCC to know the RF exposure limits for all our antennas?

Conducting routine RF safety evaluations on antennas has always been a requirement for all radio services however, the amateur division had special exemptions from this. Not anymore. Knowing the RF exposure limits for all your antennas is now a requirement and the ARRL has resources to help you.

There is no doubt that Amateur Radio is basically a safe activity. However, in recent years there has been extensive discussion and concern about the possible hazards of electromagnetic radiation, including both RF energy and power-frequency (50-60 Hz) electromagnetic fields. To relieve such concerns, the FCC set limits on the amount of RF energy people can be exposed to. Some stations need to be evaluated to see if they are following the rules (http://arrl.org/rf-exposure). To see if your station complies, you can visit the website above and use the RF Exposure Calculator. All you need to do is fill in the form with your operating power, antenna gain, and the operating frequency. Depending on how far above ground the RF source is located, you might want to consider ground reflection, then click "Calculate". A demonstration of this calculator will be given at the October club meeting.

If you have any suggestions for articles or if you would like to publish an article, please reach out to me at k6jro@arrl.net. Stay safe! Stay healthy!

73 de John, K6JRO

President's message, Wally, KK6CPN	A Message from the Club President Wally, KK6CPN		
	I'm back from my 2 months of travel and its somewhat nice to be back. I want to remind everyone to first start thinking about officers for next year. As I mentioned several months ago John, K6JRO has stepped down as our Field Day Coordinator and I'm looking for someone to take his place. Please considered this great opportunity to be part of the SARA Club. If we do not get anyone to fit this position, we might not have a Field Day. Thanks to Ed, KF6FIR for handling Field Day paperwork this year We are in the process of testing a Yaesu FT-100d Hf/VHF/UHF radio and if it passes, we will be selling tickets at the next couple of meeting. That's all for now.		
	73 to all. Wally, KK6CPN		
Minutes: July face-to-face meeting	Minutes from July face-to-face meeting Stanislaus Amateur Radio Association P.O. Box 4601 Modesto, CA 95352 www.saraclub.net July 20 th , 2021 Club Meeting Minutes		
	(Conducted at 3705 Oakdale Road Modesto, CA)		
Next General Meeting: Face-to-face. Tuesday, August 17 th 7:00pm	Attendance (via sign in sheet)Randy, KF6RJSLucian, KF6NPGEverett, KN6NQNRandy, KF6RJSRichard, W6DUBrian, KM6JAGCheryl, KK6GJMJohn, W6PYPaul, W6UHFRichard, WE6VVicki, KF6RCVRobin, KG6ZYQJason, KA6TIOMark, WB6BJNBrendon, NK6MJohn, K6JROZack, KI6KQOGene, W6QFUVisitors: Bill, KN6DAM		
Write for <i>The</i>	Vice President Mark, WB6BJN called the meeting to order at 7:00 pm a welcomed everyone. There were 16 members and one visitor in attendance. Mark had everyone introduce themselves and we had the pledge of allegiance.		
Readout: If anyone has information that they want included in <i>The Readout</i> please submit to the editor	Reading of Minutes Secretary Lucian, KF6NPG The minutes were included in the READOUT and had been e-mailed out to the membership prior to the meeting. A motion was made by Randy, KF6RJS and second by Robin, KG6ZYQ to accept the minutes as printed in the READOUT. The motion was passed without opposition.		
k6jro@arrl.net.	President: Wally, KK6CPN Wally was not present.		
Please try and have the information or articles to the editor by the 30 th of each month.	Vice President: Mark, WB6BJN Mark said that President Wally was still traveling and was in Alabama and then onto the Pacific Northwest. Mark announced that he and Sarah will be moving to Tennessee sometime after the first of the year. He plans on continuing to being involved via echo link. He gave a weather report and		

Joining SARA:

We are currently taking membership applications for 2021. One-year dues are \$30.00 for individuals, or \$45.00 for a family. To join, fill out the registration form in this newsletter and bring it to any SARA meeting. said the temperatures have been up and down. It had been very warm but should be cooling down into the 90's later this week and into next week.

Treasurer: Vicki, KJ6RCV

She read the treasurer's report and a copy will be attached to these minutes and will be included in the READOUT. Motion to approve by John, K6JRO and second by Brendon, N6KM. Motion was approved without opposition.

Sergeant at Arms: Mark, N6ARP

Mark was not present.

Board Members: Paul, W6UHF and Brendon, N6KM. Scott, N6CIC and Bill, AE6J were not present.

Neither had a report.

Equipment/Mt Oso: Paul, W6UHF

Paul said the Mt. Oso projects were moving along. He had been in contact with Raymond at Ray's Radio and Raymond was designing a plan to complete the work and updating the labor and equipment estimate to reguy the tower and put a top bracket on the VHF antenna. To help offset some of the labor cost club members will assist him in the work.

ARES received grant funding to replace the 220mhz repeater. It has been ordered and we are waiting for it to arrive.

The technician for the Win-System Bryan, K6CBR needs access to the repeater site to complete some repairs. It has been arranged to take him up on Saturday July 31, 2021.

ARES: Lucian, KF6NPG

The July ARES meeting was Saturday 10, 2021 (10:00am to Noon). It was moved from the first Saturday due to the holiday. The meeting was the first in person meeting of the year. Seven ARES members attended. Members brought in their portable packet/Winlink equipment. Officer reports were given, and we did some practice on packet and Winlink peer to peer. The ARDEN Mesh presentation had to be moved to the August meeting. The next meeting is Saturday August 7, 2021, and will be a face-to-face meeting at 3705 Oakdale Road Modesto, CA. There will be officer's reports and a presentation on how to build an ARDEN mesh portable station.

Derrill, W7LTM requested use of the 145.390 repeater for the Cal-Fire Red Flag patrols in Mariposa County. It was used by the Cal-Fire Amateur Radio volunteers on July 3 and 4, 2021.

Community Events: Lucian, KF6NPG

The Copperopolis Road Race took place on Saturday June 5, 2021. Thanks to all who worked that event. It went fairly smoothly however there were a couple of medical incidents. One was serious and the rider suffered a concussion and was Medi-flighted to Modesto. An article about the event was in the July READOUT. No other events are currently scheduled.

Ham Cram: John, K6JRO

The next Ham Cram is scheduled for Saturday August 14, 2021 and there are 4 persons registered. The cost for the Ham Cram is \$30.00 and test only is \$15.00. You must have your FRN number before attending the class

or testing. There are links on the ARES website to register for the class and how to obtain your FRN number. With our low enrollment this time we will accept walk-ins for both the class and testing. They must have their FRN number prior to coming in. We cannot obtain FRN numbers the day of the class.

Un-Finished Business: None

None

Old Business:

New Business:

John, K6JRO, Brendon, NK6M and Bill, AE6J operated as N6OOA for field day. They had 300 contacts on 20 and 40 meters. They had 281 on 20 meters and 19 0n 40 meters. All contacts were phone. They used a 3 element hi gain beam and an off-center feed dipole. They made contacts in 62 sections.

Paul, W6UHF had 72 contacts on 20 and 40 meters.

Bands were crowded on Field Day. This year had very good band conditions.

There seems to be an upswing for solar cycle 25. 6 meters has been open.

The new HRO in Sacramento is open for business.

Vicki, KJ6RCV reported that our security certificate expired for the club web site. She wanted to thank Patrick, KG6AZZ for renewing the certificate very quickly.

Presentation:

There was no presentation.

Meeting Adjourned:

The next SARA Club meeting is Tuesday August 17, 2021 (7:00pm to 8:00pm) and will be a face-to-face meeting. The location is the Stanislaus County Office of Emergency Services, 3705 Oakdale Road Modesto, CA

Motion to adjourn by John, W6PY and second by Randy, KF6RJS. Adjourned at 7:45 P.M.

Minutes by Lucian, KF6NPG, Club Secretary

Treasure's Report, Vicki, KJ6RCV

Treasure report from the July meeting



STANISLAUS AMATEUR RADIO ASSOCIATION P.O.BOX 4601, MODESTO, CA 95352-4601 www.saraclub.net Treasury Report July 20, 2021 6-15-21 to 7-19-21

BALANCE FORWARD: \$8,807.09** (Previous Balance \$8,801.:

Bills Paid: Moeller Mt. Oso PG & E

\$ 80.00 (Ck #1080 – July site rent 7-1-21) \$ 76.45 (Ck #1081 – Mt. Oso utilities 7-12-21) Total: \$ 156.45

133.39 (\$135 less \$1.61 Pay Pal fees)

28.83 (\$30 less \$1.17 Pay Pal fees)

INCOME: Dues Ham Cram

DEPOSITS: Tri-Counties Bank Tri-Counties Bank

\$ 30.00 (6-16-21)
\$ 60.00 (6-23-21)
\$ 72.22 (Pay Pal transfers posted 6-17 & 7-9-21)

Total: \$ 162.22

Field Day Fund: Equipment Fund

Tri-Counties Bank

\$ 946.88 (included in account balance)

\$ 820.00 (included in account balance)

** TRI COUNTIES BANK BALANCE: \$8,807.09 as of 7-19-21

\$

s

Treasurer Vicki Pat July 20, 2021

2021 Memberships - 84 Paid to date

AE6J, AF6AA, K6FVC, K6JRO, K6KQR, K6SBO, K6UWU, K7RKU, KA6BYR, KA6G KA6TIO, KC6KSN, KD5QWC, KD6BNY, KE6QMS, KE6ULQ, KF6FBA, KF6i KF6NPG, KF6RJS, KF6TEZ, KF6TSY, KF6UTB, KG6AZZ, KG6JXZ, KG6ZYQ, KI6H KI6KQO, KI6PBL, KI6YQL, KJ6CHN, KJ6EWD, KJ6F, KJ6HHA, KJ6LJN, KJ6M KI6KCV, KK6CPN, KK6GJM, KK6GJN, KK6ILV, KK6OQP, KK6SFI, KM6ARU, KM6L KM6JAG, KM6NEZ, KM6SIO, KM6VLJ, KN6GJL, KN6KOD, KN6MOK, KN6M KN6NQN, KN6OOR, KN6OQW, KO6KL, N5QC, N6ARP, N6CIC, N6JCS, NK6M, NV W5NH, W6DMC, W6DU, W6KZZ, W6MUT, W6PV, W6PY, W6QFU, W6UHF, W6W WA6UXA, W7EOV, W7LTM, W8AAL, WA6BFG, WA6KEC, WA6ZLO, WB6BJN, WE WL7COO

2022 Memberships - 6 Paid to date AE6J, KI6HOB, KK6ILV, KM6SIO, W6PV, W6PY 2023 Membership – 1 Paid AE6J

ARES

Lucian, KF6NPG Assistant Emergency Coordinator, Stanislaus County

Stanislaus County ARES Report



We have had two in person meetings, and it was nice being able getting back together and we hope that more members can attend at our next meeting. At this time, for meetings of our size, we are not required to have social distancing. If you are fully vaccinated, you do not have to wear a mask. If you are not vaccinated, you should wear a mask. If anyone feels more comfortable wearing a mask, they are welcome to do so.

Pacificon has posted on their web site that this year's convention will be faceto-face. The dates are October 15-17, 2021. For more information, please go to their web site www.pacificon.org.

We had to postpone our ARDEN/mesh network training for the August meeting. We had a presentation on using the Signalink with a sound modem program and using VARA FM. Unfortunately, both of our local VARA FM nodes were down and we could not demonstrate live. They are being repaired and should be back on the air in the next thirty days. We hope to have additional training with VARA FM in the October meeting.

The next ARES meeting will be September 11, 2021. We changed the meeting from September 4, 2021 due to this being the Labor Day weekend. Pat KG6JXZ plans on having a presentation on the ARDEN/mesh network at this meeting. The Coachella Valley Amateur Radio Club has some great information posted on one of their member's (Dale Jag WA6MZW) website. I was able to sit on a presentation on the mesh by Dale and it was very informative. Please look at his web site www.ham.cc92234.com for some great information on ARDEN/mesh. In addition to other information on the mesh, you will learn where you can find equipment to build your mesh station. Thanks to Richard WE6V for this information from the Coachella Valley Amateur Radio Club.

Please keep yourselves and your families safe.

Lucian Thomas, KF6NPG Assistant Emergency Coordinator, Stanislaus Co. KF6NPG@aol.com



ARES® operates under the authority of the Stanislaus County Office of Emergency Services (OES), and the Stanislaus County Assistant Director for OES. ARES® is organized under the auspices of the American Radio Relay League, the San Joaquin Valley Section Manager, and the San Joaquin Valley Section District Emergency Coordinator. Operational control is under the Stanislaus county OES.

If you are interested in joining Stanislaus ARES, go to the Stanislaus ARES website (www.stanares.org) and click on the Join ARES tab. There is formation on how to join and the membership forms to complete are available there. Please check in on the ARES voice radio net very Wednesday at 7:30 pm on the 145.390 – pl. 136.5 S.A.R.A. repeater. There is also an unproto Packet radio net during the voice net on 144.910 via the SARA node. The monthly training meeting is at 10:00am on the first Saturday of the month at

3705 Oakdale Road Modesto, CA. Meeting dates and times can change due to operational needs. Please check the web site for updates.

Due to the State-wide Stay in Place Order, ARES meetings will be conducted via Zoom. Access will be emailed a few days prior to the Saturday meeting. Please make sure Lucian, KF6NPG has your email address on file. The next Zoom meeting will be 10am on Saturday, APR 3rd.



Ham Cram John, K6JRO Ham Cram coordinator

Ham Cram Information

Study for your amateur radio license or upgrade your current license. Sponsored by the SARA and Stanislaus County ARES.

August 14th Ham Cram results:

We serviced four people at the August Ham Cram, we had our first ever "grandfather" upgrade: Russ, KN6OOT was licensed as KD6ARV in 1991 but, let is license lapse in 2001. Russ decided to get back into amateur radio passed his technician class exam in April. As a former holder of a general class license, Russ was able to upgrade to general without taking the exam. In additional to Russ, we had three all-day crams: two for technician and one for general. We had one test-only for extra who passed. Congratulations to all who passed their exams!



Next Ham Cram

February 12, 2022 Office of Emergency Services 3705 Oakdale Road, Modesto, CA

The COVID restrictions have been greatly reduced and will be following the California Department of Public Health and the Federal Center for Disease Control guidelines.

Therefore, for meetings of this size there is no social distancing required. Those who are vaccinated do not need to wear a mask. For those who are not vaccinated you should wear a mask. Anyone who feels the need to wear a mask for personal, medical, or safety reasons is free to do so.

All registered individuals will need to bring the following:

- A valid identification, preferably CDL (California Driver's License)
- Cash or check for \$15 for the testing session, check preferred and payable to the American Radio Relay League (ARRL).
- If you are upgrading your license, please bring a copy of your current license as well as the ORIGINAL.

Sign Up

Please send the following information to hamcram@stanares.org

Full name, Address, Phone, and Call Sign if you have one. If you have any questions, please email John Otte, K6JRO at k6jro@arrl.net.

ARRL EC-001 Emergency Communications Course

ARRL EC-001 course

If you need to take the ARRL Emergency Communications Course (EC-001) Stanislaus ARES can help. The EC-001 workbook is out of print, however The Indian River County ARES has all of the study information (including test and answers) posted on their web site. Recent amateurs who have taken the test have printed out the test questions and answers and have studied like they would for a ham cram. Pass rate has been about 100 percent.

The ARRL has updated this course. There are some content differences, however members who have used this to prepare for the challenge exam have been successful.

Here is the web site to study for the ARRL Introduction to Emergency Communications Course challenge examination (EC-001):

Go to www.ircares.org This is the web site for the Indian River County ARES. Once you are on the web site click on the training and reference tab. Then click on the ARRL Introduction to Emergency Communications (EC-001) tab. That will take you to the course information.

Once you complete this on-line study you can arrange with Stanislaus ARES to take the ARRL test. We generally give the test at a ham cram session or before or after the monthly ARES meeting. Please e-mail Pat KG6JXZ at kg6jxz@charter.net, or Lucian KF6NPG at kf6npg@aol.com or John K6JRO at k6jro@arrl.net to arrange to take the test. **There is a \$15.00 test** administration fee payable to ARRL.

You can also access the updated ARRL EC-001 course at the ARRL website. Go to www.arrl.org. Once there click on the licensing, education and training tab. Then click on the online course catalog tab and



look for the EC-001 course. It states that it takes about 45 hours to complete the course over 9 weeks. Once you complete the ARRL course you can take the exam online. From what I can see there is no charge to take the course or exam. You have to take the course before you can take the exam.

You cannot take the challenge exam online.

Featured Article

Faith Hannah Lea, KD3Z, is Amateur Radio Newsline 2021 Young Ham of the Year

Faith Hannah Lea, KD3Z, of Palm Coast, Florida, has been selected as the 2021 Bill Pasternak WA6ITF Memorial *Amateur Radio Newsline* Young Ham of the Year. Faith Hannah comes from an all-ham family. She is the daughter of



James Lea, WX4TV, and Michelle Lea, N8ZQZ. Her brother and two sisters are also hams. She credited her parents with being the biggest influences in her entry into amateur radio at the age of 10 in 2014. Just 18 months after being licensed, Faith Hannah was invited to join the 2016 Dave Kalter Memorial Youth DX team, which operated from the Saba station of Jeff Jolie, as PJ6/NM1Y.

"And that's when I realized especially that DXing is amazing, because I absolutely love those huge pileups and getting to talk to all of those different people," she explained.

Among her PJ6 achievements was a satellite contact that broke the SO-50 distance world record. Her account of the event appeared in the March/April 2017 issue of *The AMSAT Journal*.

In August 2018, Faith Hannah took part in the week-long Youngsters on the Air (YOTA) camp in Johannesburg, South Africa, where she participated in kit building, antenna projects, satellite operation, and a high-altitude balloon launch. An article about her experiences in South Africa appeared in *CQ Magazine*.

On the way to South Africa, Faith Hannah and her father had a 22-hour layover in Dubai, the United Arab Emirates. While there, they were invited by the Emirates Amateur Radio Society to visit and operate A62A and A60YOZ.

In December 2018, Faith Hannah, her younger sister, Hope, ND2L, and their father organized a 36-hour mini DXpedition to the Dry Tortugas in the Gulf of Mexico, off the southwest coast of Florida, where they operated as N4T. The family team put 1,970 HF contacts and 100 satellite contacts into the log. *CQ* published Faith Hannah's account of the N4T operation, and she and Hope shared the April 2019 cover of the magazine.

Faith Hannah earned an associate degree from Daytona State College at age 15 and currently attends Stetson University in Deland, Florida, where she is recognized as a member of the junior class. She maintains a 4.0 grade point average while working toward two separate bachelor's degrees — in molecular and cellular biology and business administration. She is considering two possible career tracks — medicine or law, or possibly both.

In 2020, she received a \$25,000 scholarship from the Foundation for Amateur Radio, and in 2021, she won a \$16,000 scholarship in the Voice of Democracy essay contest sponsored by the Veterans of Foreign Wars.

She said she still finds time for amateur radio even while attending school. *Amateur Radio Newsline* will present the award during a virtual event in August. (*Reprinted with permission: www.arrl.org*)

Community Events

Community Events:

September

Saturday 4th ARES Meeting IN PERSON 10a-12p Tuesday 21st SARA Meeting IN PERSON 7p-8p

October

Saturday 2nd ARES Meeting IN PERSON 10-12p **TBD** Stanislaus County Bike Club Golden Hills Century Knights Ferry 7a-4p need 5-6 Friday-Sunday (15th, 16th, 17th) Pacificon San Ramon Marriot. This event is a go. Check the web site for more information. www.pacificon.org Tuesday 19th SARA Meeting IN PERSON 7p-8p

November

Saturday 6th ARES Meeting IN PERSON 10a-12p Tuesday 16th SARA Meeting IN PERSON 7p-8p

December

Saturday 4th ARES meeting IN PERSON 10a-12p Tuesday 21st SARA meeting IN PERSON 7p-8p





Local Nets

Local Nets:



S.A.R.A. operates several repeaters. These are located on Mt. Oso in Patterson, CA: 145.390 – pl 136.5 224.240 – pl 136.5 440.225 +pl 136.5 51.800 – pl 136.5

- Digital node 144.910, digipeater name "SARA".
- 145.110 pl 136.5 is a low-level repeater located in Modesto, CA.

All SARA nets meet on the 145.390 – pl 136.5 repeater except where noted. SARA Club net is every Tuesday (except the 3rd Tuesday) at 7:30pm.

The morning traffic and information net meets Monday through Friday from 7:00am to about 8:00am.

The geezer net (It is not about age; it is all about attitude) meets each weekday morning 9:00am to 9:30am.

The Stanislaus County ARES net meets every Wednesday at 7:30pm. The Space net meets every Friday at 8:00pm

S.A.R.A. meets the Third Tuesday of every month at 7:00pm at 3705 Oakdale Road Modesto, CA 95357. The club website is www.saraclub.net .

The Stanislaus County ARES generally meets the First Saturday of the month at 10:00am at 3705 Oakdale Road Modesto, CA 95357. Meetings can be changed due to training requirements please check the web site for current information. The web site is www.stanares.org.

Turlock Amateur Radio Club (W6BXN) has several nets as well:

Morning commute and Beer and Pizza Net Monday through Friday 6:30am to 7:00am 147.030 + pl 100 or 447.700 + pl 94.8.

Weekly club net every Tuesday (except the 2nd Tuesday) at 7:00pm on the above repeaters.

DMR round table net every Monday at 7:00pm on the TARC regional talk group. Brandmeister TG 310658 which is linked to the W6BXN DMR repeaters.

TARC meets the second Tuesday at 7:00pm at the Salvation Army 893 Lander, Turlock, CA.

Merced ARES has a weekly net on Mondays at 8:00pm on the TARC repeaters. They have a monthly meeting the third Wednesday at 6:00pm at the Merced County Health Department, 260 East 15th Street Merced, CA.

TARC web site is www.w6bxn.org and Merced ARES is www.mercedares.org .

Officers and Board Member

2021 SARA Club Officers and Board Members

Officers:

President: Jim Walsh, KK6CPN Vice President: Mark Lemmons, WB6BJN Secretary: Lucian Thomas, KF6NPG Treasurer: Vicki Peitz, KJ6RCV Sergeant at Arms: Mark Price, N6ARP kk6cpn@yahoo.com wb6bjn@samobile.net kf6npg@aol.com vptigger@gmail.com mark99price@gmail.com

Board Members:

Paul Owen, W6UHFw6uhf@aol.comBrendon Church, NK6Mbrendonchurch@me.comTom Griffin, N6CICscottandalene@msn.comBill Danforth, AE6Jki6hnv@gmail.com

Committees/Workgroups:

Club Technician: Patrick Dunbar KG6AZZ patd@kg6azz.net Readout Editor: John Otte, K6JRO Community Events: Lucian Thomas, KF6NPG Stanislaus County ARES:



k6jro@arrl.net kf6npg@aol.com

Emergency Coordinator: Pat Mandas, KG6JXZ kg6jxz@charter.net *Nominations are held every November with elections in December*

STANISLAUS AMATEUR RADIO ASSOCIATION (SARA) MEMBERSHIP FORM



Check One: New Member	_ Renewing Member Family Membership	
NAME:	CALLSIGN:	
ARRL Member:(Yes) (No)		
ADDRESS:	CITY:	_
ZIP: PHONE: Hom	eCell:	
E-Mail: ADDITIONAL FAMILY ME	EMBERS AT SAME ADDRESS:	
NAME:	CALL SIGN: ARR	L: (Yes) (No)
e-mail		
NAME:	CALL SIGN: ARI	RL: (Yes) (No)
e-mail		
NAME:	CALL SIGN:AR	RL: (Yes) (No)
e-mail		
NAME:	CALL SIGN:ARR	L: (Yes) (No)
e-mail		

TOTAL DUES PAID: _____ Date: ____

One-year membership dues are \$30.00(if paid by cash, check, or money order) \$31.00 if paid through PayPal. Family Dues are \$45 and is the same for all methods of payment. You can access the PayPal payment by going to the club web site www.saraclub.net Note: Bring membership form to SARA Meeting or Mail to: SARA Club, P.O. Box 4601, Modesto, CA 95352-4601

April 3, 2021

