General Meeting

NPM Center
July 18, 2022
7:00 PM
Norman P. Murray
Center
23492 Veterans
Way, Mission Viejo,
CA 92692

General Meeting – Band Plans
7:00 pm, June 20th – Norman P. Murray Center

Please join us Monday evening at the Norman P. Murray Center in Mission Viejo. We will be discussing the band plans and the various organizations that organize the bands they oversee. This is a good topic for beginners or for experienced Hams that never paid attention to this topic. Depending on time, we my diverge into a Q/A session on other areas of Ham Radio.

Coming up in August is the SOARA Tech Fair. Have a project you've been working on or perfecting? Bust it out and tell is about it. We have room for about 10 projects, give or take a few. Ham Radio related and can be Arduino, T-hunting, Raspberry Pi. Just send me note at w6ine@sorara.org and let me know what you want to show.

Erik Wresch
W6INE

SOARA Elmer Saturday, 6/25/22 Murray Center

I updated the SOARA Saturday page on www.soara.org. Go there and see the schedule. The next SOARA Saturday will be at Gilleran Park, July 23, 9am to noon, coffee and donuts will be provided. We will be talking about software defined radio (SDR), RTLSDR, QFH antennas. Bring your ideas and questions! Or, just chat about radio.

Here's the SES link: https://www.soara.org/activities/soara-saturdays/

The SOARA Saturday tech net log is under the above link too

73,
Ed, WA6ED

SOARA Membership Report

Please welcome our newest member Claude Goldsmith (WB6UOO) who lives in Lake Forest.

SOARA is looking for a new membership director. If you are interested in volunteering contact the SOARA board board@soara.org. Also, Ed (WA6ED) will be happy to let you know the details of this position and do some training.

Basic duties are listed in the SOARA Bylaws as described below:

The Membership Director shall:
1) Maintain the roster (membership database).
2) Promote new member recruitment.
3) Prepare membership badges.
4) Prepare and disseminate annual dues notices.
5) Oversee production of membership handbooks.

Let us know if you need a badge, lanyard or email a copy of the membership manual PDF. I will be updating the manual soon. If you have any roster database changes, please let us know. Email membership@soara.org.

Heiko AD6OI
Acting Membership Director

Operation Deep Freeze

Please check out YouTube's The History Guy's episode: "Ham Radio & Operation Deep Freeze." Two teens, ham radio, and the Operation Deep Freeze.

July 1957 to December 1958 was the International Geophysical Year or IGY. The IGY was a massive, intensive, multinational, multi-disciplinary, global research effort.   Its 67 nations studied 11 different sciences worldwide. Antarctica was a main focus because it was the least known part of the earth. The first permanent IGY Operation Deep Freeze, South Pole station was supported by two precocious, dedicated teenage, New Jersey hams.

Personnel morale given extreme Antarctic weather and separation from family for over a year was one of the biggest challenges. We take for granted all our global communications satellites, internet and cell phone capabilities that didn't exist during the IGY. Even Clark Kent would be challenged because there were no phone booths at the South Pole.

Our amateur radio filled that communications gap. Today, we have our e-comm drills where we can fill in when normal communications are interrupted. Imagine keeping your morale up with just a two year Field Day as your only contact with the outside world.

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Find out on YouTube's The History Guy's episode: "Ham Radio & Operation Deep Freeze" how Jewel and John Matey dedicated themselves for two years to bolster the Antarctic morale. Just a couple of teenagers enthralled by this world class ham radio adventure. Think of them during your next e-comm drill, fire watch and, yes, our mere 24 hour Field Day this June 25 and 26.

Respectfully submitted and 73

Tom Parkes KI6DDB

Soara Hints & Kinks

This month's tip comes from Patti, AD6OH: If you have problems with radio controls, such as volume or squelch being changed inadvertently, consider putting a stripe of paint on the knob at the 12 o'clock position when the control is in the normal operating position.

Editor's note: I find this extremely helpful on mobile radios with unmarked volume and sqelch controls, like the Yaesu FT-8800 or Kenwood TM-D710. I am always bumping into these knobs and changing them, especially the volume, causing missed calls or scaring the dog when the volume is too high.

Ham Experiences – Morse Training

I haven't been at this very long, so consider this story a relative newbie's experience in the hope it may help you if you are considering learning Morse code.

Motivation
As I would spin the dial past the CW sections on the bands and hear Morse code, or when a repeater sends its identification, I'm reminded that with a little effort, I could learn to understand what was being sent. So in mid 2021 I decided to try to learn Morse (again). Although I had renewed my license regularly, I'd been inactive, and had forgotten almost all of the Morse of I had learned back in 1993 to pass the 13 WPM test. As additional incentive, I know that CW has the potential for much greater range than what you can achieve with SSB at the same power, and unlike digital modes like FT8 or JS8, you don't need an additional device like a tablet or PC.

Methods
I'd heard some discussion about the website "Learn CW Online" (LCWO.net) and decided to try that. Like anything, it takes a little time to find all the controls, but I soon settled into a configuration I liked for my training sessions. I also found groups such as Straight Key Century Club, Long Island CW club, and Ham Radio Solutions, an internet-based way to have a CW QSO (no license required). There are also many practice apps, and some that will translate audio CW to text, although I've found the accuracy to be unreliable.

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There are quite a few theories about what the best method is for committing the letters to your Morse memory, but I'll share what I believe works for me. It is said that you should try not to think about dots and dashes or use a chart, since this will form a habit of constantly performing a mental translation which will slow you down. Instead, connect the letters, as directly as possible, with the sound of the Morse code.

I currently remember letters in three different ways, depending on the character, while only one of those ways is considered best by the experts. The first (and best) way is simply recognizing the sound as the character, without any other mental processing. Unfortunately, because of bad habits, I only recognize a few characters this way. The second way is associating a name, phrase, or concept with the sound, which then is translated to the character. "Cross at the door" for X, "Did I fail it" for F etc. This takes some processing time, but is a close second to simply recognizing the sound. The third and worst way is thinking about dots and dashes, picturing the dots and dashes on paper, or "counting". The letter "R" is simple, with three elements, and was probably the first letter I learned, but formed a bad habit of translating into dots and dashes that has persisted in some form until today. I need to correct this, and I still "figure out" characters like "7" by thinking "it had a bunch of dashes followed by three dots" and three dots are how you'd get 7 from ten by subtraction. I do the same for "8" (two dots). This method will break down when some of the less common punctuations or other 5-element symbols are added into the mix.

Hopefully with practice, some of my bad habits will be replaced by familiarization with the sounds, and I think this is happening, slowly. Interestingly, I've just begun to recognize "6" by its sound. It has a strange, rushed sound to me. But that turned into a recognizable sound signature for that character. For this one, I think my brain just couldn't keep-up with counting the dots when there's more than three being sent at a high character speed.

Writing down the letters on paper is speed-limiting. Even typing them into a computer has the same effect (and requires another device) and I'm presently stuck in that mode. This is when "head copy" can help, and whole words become recognizable (not for me yet), and in that way much higher speeds are possible.

Using LCWO.net

I started using LCWO.net in September of 2021, with nearly zero remaining knowledge of Morse code. I set it up to use the Koch method (a suggested sequence of letters to learn) and Farnsworth (allows more space between characters sent, while the character's dots and dashes are sent at higher speed).

I started with lesson number one, which sends characters from a pool of just two characters. I set 20 wpm character speed, and 15 wpm "effective speed", which includes the time between characters, and can be adjusted to accommodate whatever reading speed you can manage. Adjusting the character speed fairly high, helps force the sound recognition concept, rather than thinking about dots and dashes, even though there's plenty of time in between characters (effective speed) to make the identification. Although I have tried 15, and 17 wpm, I ended up taking the effective speed down to 12

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wpm as I progressed through the Koch method and added characters to the pool being sent to me.

Each time you achieve better than 90% accuracy in your copy, it is suggested that you advance to the next lesson, which just means some characters are added. The final lesson contains 41 characters, although these are just the essential letters, numbers and a few punctuations. LCWO has other features where you can concentrate your practice on certain, problem letters, and a forum for questions & answers.

Analysis
I decided on a simple way to combine the main performance data into one "capability" parameter as I progressed through the Koch lessons. It contains the effective speed, the number of characters in the pool, and the accuracy of copy I was able to achieve. I decided that the capability parameter would be just the product of all three, since a greater value in each one implies a greater Morse copy capability, although I could have used the sum. Since these data are recorded and preserved each time I long into the LCWO page, I can occasionally copy them to excel to plot. Figure 1 shows my progress from 9/3/2021 to 7/12/2022, which is 2663 sessions. Each blue data point is a 1-minute session with the plotted value computed by Capability Score = Eff_speed*Accuracy*Nchars.
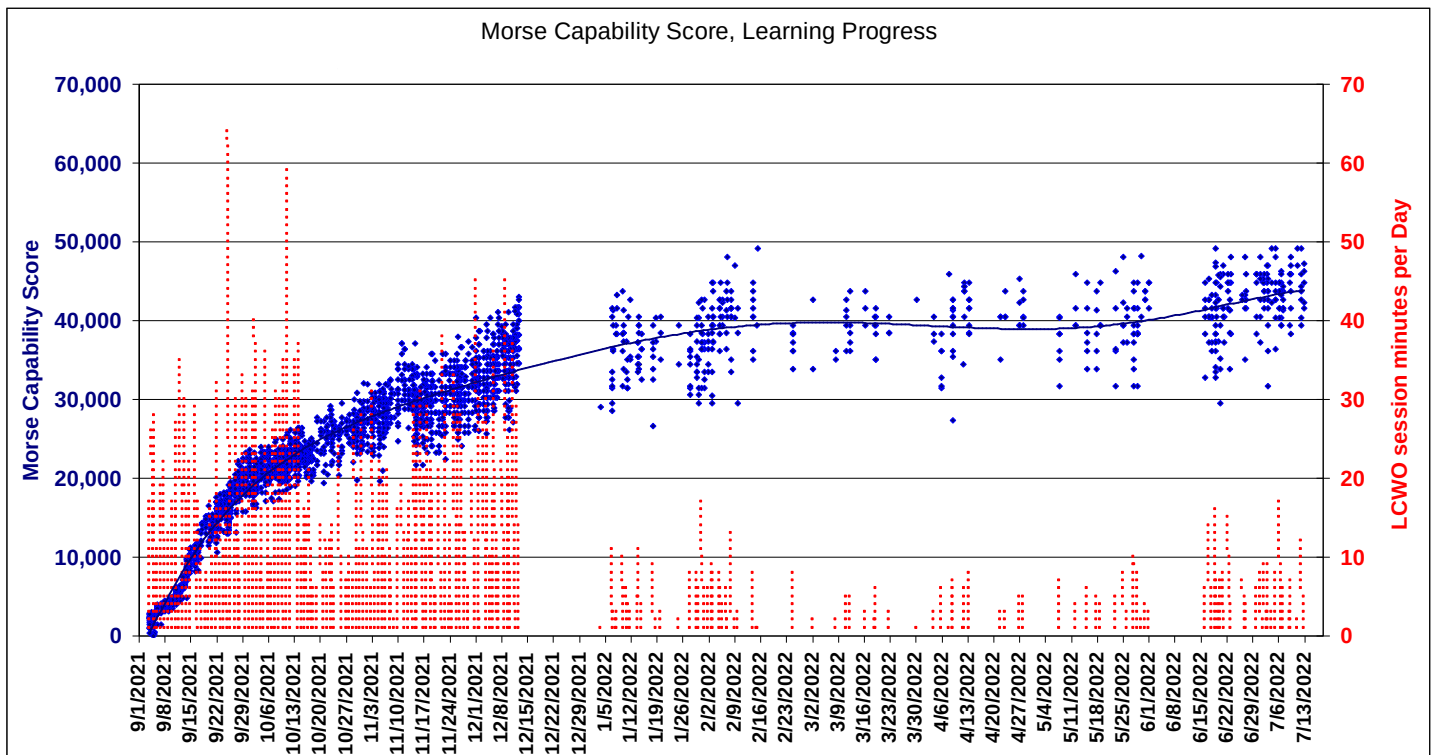

Figure 1 Training progress measured by Morse Capability Score KN6HI 9/3/21 to 7/12/22

The scatter in the blue data of the plot grows as the number of characters increased, this is because you have more to remember and more chance for a mistake. The capability parameter becomes a function only of the accuracy toward the end, since I plateaued at about 12 wpm effective speed and 41 characters in the pool. I plan to increase the sending speed after I can consistently achieve greater than 90% accuracy, and although that has taken some effort, as of July 2022, I've just achieved that goal. I may also use a technique in which you simply set the effective speed higher, and practice until you improve. I also increased the character speed from 20 to 22 WPM while still at 12 WPM effective, and that has not seemed to impacted my ability to identify the characters. In fact, this may work to force sound recognition rather than prolong the crutch of the more mentally-intensive methods like counting dits.

As an interesting aside, in Figure 1, there is an obvious gap in the data in the middle at around 12/12/21. That's when I had a "STEMI" and spent 18 days in the hospital which culminated with bypass surgery. I'm pretty sure training for CW had nothing to do with it. It wasn't all bad; while awaiting surgery, I had a CW QSO from my hospital bed with someone on the east coast on "Ham Radio Solutions" using the browser on my phone.

An interesting observation is that this training with LCWO could be a good test of general brain function; speed, memory, logical reasoning. Considering the several times I had to be shocked back to life, and the general anesthesia, this would be a great opportunity to measure any loss of cognitive function. As seen in Figure 1, I resumed LCWO again on 1/3/2022, and the capability score seems to have held-up, or at least didn't totally crash.

From the data, I extracted how many minutes I spent training per day, which is plotted in red in Figure 1. I had been spending an average of about 30 minutes training almost every day before the gap, and after the gap I've been training an average of about 5 to 7 minutes only sporadically. Most recently, I've increased my use of LCWO, and you can see that I've begun to improve again. From this it appears that capability is a strong function of how much you train, and although capability can be maintained with just a little practice, any real progress will be practically stalled at that level of effort. For me, solid progress requires a bare minimum of 15 minutes practice almost every day.

Figure 2 shows my progress through the lessons of the Koch method, when characters are added to the pool. Initially progress is steep, with characters being added to the pool every few days. There was a little plateau at about lesson 16, where it took more time to achieve 90% accuracy consistently in order to advance, despite my practice sessions being fairly often. This is probably due to the difficulty level of the added characters around lesson 16.
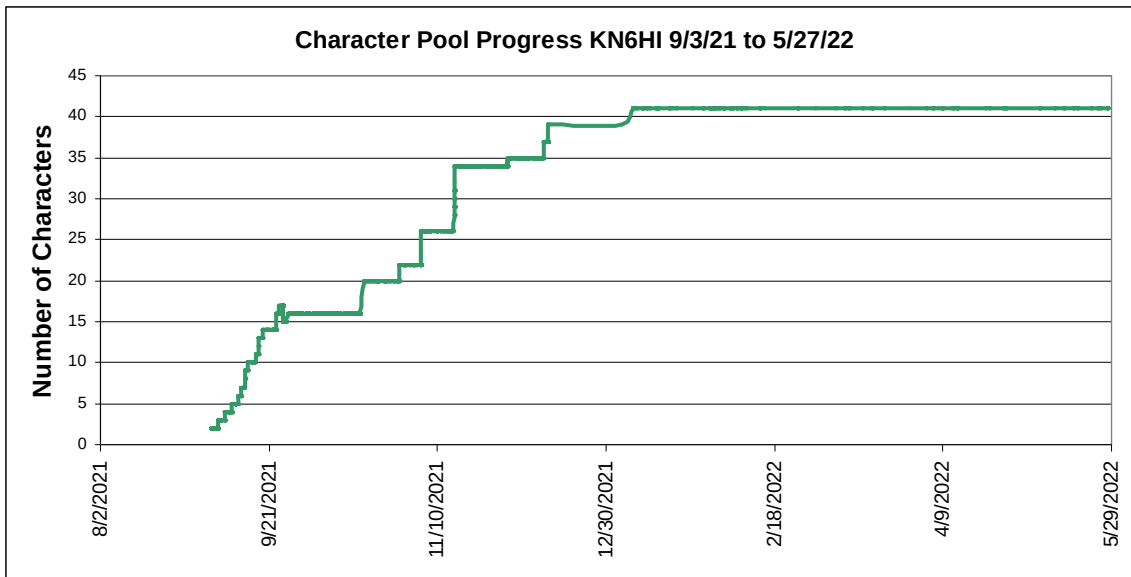
Figure 2 My Koch lesson progress

Wrap up

I'm approaching 2700 1-minute training sessions completed. As you can see from the capability plot ending up at 44,000, and with the settings of 12 wpm, and 41 characters, I'm currently averaging around 90% accuracy. Yet, my current level does not seem to be enough to keep up with most QSO's I hear on HF, although I am encouraged that I can understand some of it. At this point, I can copy the code from the 7 wpm audio files provided by W1AW with reasonable accuracy.

Now there's other things to learn, like practice better sending, or reviewing the anatomy of a typical CW QSO. A few of us in the SOARA club have tried impromptu QSO's on VHF (144.060 MHz), but that has presented limitations for some of us in the necessary equipment. We may move to HF for our practice sessions, and that will probably help transition to "in the wild" CW QSO's for us. Well, that's it. I hope my experience has been helpful for anyone considering learning Morse code.

73, Steve KN6HI

Field Trip Around Lake Superior

I decided to do a road trip around Lake Superior--the world's largest fresh water lake. From Minneapolis, I took 2,000 miles to run around it clockwise, 4 days in Canada. As usual, along with the normal sightseeing, I had a punchlist of NDB's to check out--most have already been decommissioned, especially the US side.

The really major NDB in Canada was the 1000 watter QT 332 kHz in Thunder Bay, Ontario. It is sited as a LOM 5 miles SW of the airport in line with the runway, but is way more powerful than what's needed for that. It's been very widely monitored in the US--

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and even Europe apparently. The LOM on the other side of the airport was also still working, ZQT 263 kHz, much weaker.

Later in Canada I drove 35 miles north out of my way to get to another beacon, YMG 219 kHz in an obscure mining and timber town called Manitouwadge. I hadn't heard it on the air, and when I got there, the beacon was there, obviously not working. So, I went over to the airport, which was deserted except for a security guard and the manager. He confirmed that the NDB was off the air after a storm 3 weeks earlier, and NavCanada hadn't bothered to come out to fix it yet. He said the only purpose of the airport is to be used in case of emergencies, no commercial flights, very little private plane activity.

I made it Sault Ste Marie Ontario in the Saturday of ARRL Field Day, so I put out a call on the local 2 meter repeater to see if the local club was doing anything for Field Day--and they answered that they were set up at the city EOC building--only a mile form my motel, so I went over there to check them out. Their club only has about 25 guys, a couple were working Field day when I got there. The main guy I talked to was Dave Rowlinson, VE3ZDR. He said their club call is VE3SOO--for "Soo Locks". He explained about with all the terrible weather they get there, the integration of the government emergency services and the hams is pretty tight--same thing on the Michigan side of the line.

In Sault Ste Marie, there is an unusual museum about their bush and fire fighting aircraft in Canada. Several planes were in there, historic and recent. In California, we are used to Canadian "super scooper" type planes coming down here every year. They also had a display about the radio communications they use fighting fires in remote northern areas of Canada--with global warming--it's getting worse, like everywhere else.

Back in the US, the LOM beacon for the US Sault Ste Marie airport was still working, CI 400 kHz. I was able to park next to the antenna, and if you that close in the near field, you can tune the beacon on your car AM radio at twice the frequency--800 kHz, in this case. Works like a charm.

Then I arranged going out to Isle Royale in the middle of Lake Superior. It's a national park, only about 20,000 visitors a year--very limited boat and lodge capacity to get in there. While there I took a local boat excursion to a small island off the NE end of Isle Royale, which has a lighthouse on it, called Passage Island. At the lighthouse, I was noticing what looked like the remains of a radiobeacon installation--one tower still up, another one only the foundations remaining, and what looked like the transmitter shed in the middle. Later, on the internet, I was able to confirm there had been a radiobeacon there. At any lighthouse where you see a tower looking like the one in the photo--there's a good chance that was a radiobeacon once--I've seen that same design of tower over and over at Coast Guard lighthouses.

On the way back from Lake Superior to Minneapolis,, only one NDB on the record was still on the air---Rheinlander, Wisconsin, a LOM at RH 272 kHz. I could tune that on the car radio also--barely the harmonic made it 540 kHz approx.

I tried doing a longwave scan from Thunder Bay one night, swatting mosquitoes, but the lightning static was so loud, it was hardly worth the bother. The normal VLF submarine transmitters came in, also WWVB at 60 kHz. The only NDB at a distance I could above the din was Pickle Lake Ontario at YPL 382 kHz, another very strong widely heard beacon.

So--a contrast from California--instead of all people and little water, it was all water and few people. They were only half joking that they were worried that California might build a pipeline all the way to Lake Superior to suck all their water out.

73
Kriss Larson KR6ISS

QT 332 kHz Thunder Bay is 1000 watts, very widely monitored at night in the US

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Dave Rowlinson, VE3ZDR set up working FT8

RH 272 kHz Rheinlander, WI--LOM NDB still active, only one still on air on way back to Minneapolis

CI 400 kHz Sault Ste Marie, MI--US side--still on air

Tower still up, used as a telemetry antenna for the auto WX station

Probably the XMTR/antenna tuner shed

Foundations of beacon tower

Remote Passage Island Light, off Isle Royale--was a radiobeacon

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Isle Royale sunset

SOARA Nets and Repeaters

We all understand that amateur radio is about communications, but it is much more than that. It includes learning from others, interacting with others, teaching others, and improving our service (hobby).

Having said that I would like to talk about our nets and our repeater system.

On Temple Hill in Laguna we have six repeaters, three FM and three D star and they can be linked within their modes.

On Santiago Peak we have two FM repeaters that can operate stand alone or as a linked set.

When we have recurring nets such as Tuesday, Wednesday and Saturday, they link automatically about five minutes before the net is due to start.

Tuesday, 147,645, 224.640, 447.180 and sometimes 146.025, are linked at 7:55pm.
Wednesday I manually link 147.645 with 447.180 and sometimes 224.640, at 6:55pm.
Friday, we link the repeaters if there is a request otherwise the net is at 7pm on 447.180.

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Saturday , 147,645, 224.640, 447.180 and sometimes 146.025, are linked at 8:55am.

This happens every week so please listen before you key down.

   On a different note I would like all of you to use our repeaters more often, especially the Temple Hill repeaters in Laguna. Whether you enjoy talking on FM or on D star we can accommodate you.

Heiko AD6OI
Director of Communications for SOARA

Swap Meets and Auctions are Back

One of the most fun I have as an electronics enthusiast and amateur radio operator is attending electronic swap meets and auctions. They are great places to pick up some cables, used ham gear, test equipment and much more.

The Yuma Hamfest and Swap meet was held February 18-19 in Yuma, AZ. There were a number of good presentations and a swap meet. As usual, I found some bargains, including 2 BK8514 1200W Programmable DC loads (need repair) for $40, a Bird 79-2 coax switch (DPDT – rare) and a big variable capacitor and tapped inductor. Plus assorted coax connectors and switches. They also had new equipment for sale in the Exhibit Hall. $10 for all weekend – a great deal. I highly recommend attending next year.

We have two local swap meets that are up and running monthly.

The TRW Swap meet is held on the last Saturday of each month. The swap meet hours are 7:00 AM to 11:30 AM., located on the southeast corner of Aviation Blvd. and Space Park Drive (one traffic signal south of Marine Ave.) in Hawthorne, CA. More information can be had at [W6TRW Swap Meet](#) The next one will be on April 30, which does not conflict with SOARA Saturday, then May 28 and June 25. They even happen on Christmas – attendees are pretty dedicated. SOARA has a booth where excess club equipment is being sold by Heiko, AD6OI. There were about 30 vendor booths in February. My find last month was a a 3 pack of 433 MHz remote controlled outlets for $20.

The Claremont Amateur Radio Society (CARS) Radio/Electronics Swap meet is held on the third Saturday of each month, except December. 6:00am to 11:00am, at the parking lot of Granite Creek Community Church 1580 N Claremont Blvd, Claremont, CA 91711. There are usually 10 or so vendors selling radios, components and other items. I picked up a AR-22 antenna rotor and control box rebuilt and tested for $40. The next swap meet is May 21, which unfortunately conflicts with SOARA Saturday.

There was also a used equipment sale at Silicon Salvage in Anaheim. They had a really diverse selection of RF gear, test equipment and assorted stuff. This is a great surplus sale and it is definitely worth going to when they have them.

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There is also the former ACP Swap Meet, used to be held on the 4th Sunday of each month at Edinger and Grand in Santa Ana. This event has mostly faded away and there were no vendors the last two months, but I mention it just in case it re-appears.

Remember, one person's "junk" is another person's "treasure".

Dale - W6EDT

SOARA Statement of Income and Expenses
October 1, 2021 – June 30, 2022

Nine Months Ending:	June 2,022	June 2,021	Increase (Decrease)
Revenue::			
Memberships	7,878	10,799	(2,921)
Other	2,133	1,068	1,065
Total Revenue	10,011	11,867	(1,856)
Expenses:			
Repeaters including site rental, utilities & insurance	5,771	6,622	(851)
Member Activities	2,174	76	2,098
Other expenses	1,169	582	587
Total Expense	9,113	7,280	1,833
Net Income	897	4,587	(3,690)
Beginning Cash - October 1	27,741	22,722	5,018
Ending Cash - June 30	28,638	27,**309**	**1,329**

Note: If any member has questions about the financials, please contact the Treasurer or any board member.

Ron Mosher - K0PGE
SOARA Treasurer

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SOARA Library

As some of you have already heard the AD6OI/SOARA Library is now up and running at our house. (Please see attached picture for details). This library contains ARRL Handbooks, Repeater location guides, Tech modification books, radio and electrical books and a wealth of radio related information. For now the library will be open from 1pm to 4pm on Saturdays, and other times by appointment, if you call first, either by radio or telephone. E-mail will also work but allow at least 24 hours for a reply.

Thank you
Heiko AD6OI
Director of Communications for SOARA

SOARA Equipment For Sale Online Site

Based on numerous requests from SOARA members for a place to post Ham Radio related items for sale to other club members, we have set up an opt-in based Mailman mailing list on our server.   Interested SOARA members are invited to join the mailing list. The SOARA organization and Board of Directors do not provide any warranty or guarantee for the items being advertised, buyer beware!
To subscribe, navigate to:
https://soara.org/mailman/listinfo/forsale
Enter your "real" email address, not your at "soara dot org" alias. You must be able to send and receive email from the address you provide.

Once subscribed, you will receive email when other members post items for sale. When posting to the list, you should provide an accurate description of the item for sale, its condition, and asking price. Replies to postings should be sent to the poster of the item, and not the list.

The archives of postings are publicly available on the web here:
https://soara.org/pipermail/forsale/

This mailing list may be suspended or discontinued at the discretion of the SOARA Board of Directors should that become necessary.
Brian, NJ6N

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2022 SOARA Calendar

Month	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
General Meeting 7:00 PM	24 Online	28	21	18	16	20	18	15	19	17	21	-
Program	Vehicular Repeaters	-	-	-	Spring Auction	Field Day Prep	-	-	-	-	-	-
FCC Ham Exam 6:00 PM		-	-	-	-	-	-	-	-	-	-	-
Education Classes 8:00 AM			13	17	15	-	17	14	18	16	13	-
SOARA Elmer Saturday 9:00 AM	29 WFD Gilleran	Mar 5	26 Murray Center	23 Murray Center	28 Gilleran Park	25 FD Gilleran	23 Gilleran Park	27 Gilleran Park	24 Murray Center	22 Murray Center	26 Murray Center	-
SOARA T-Hunt 1:00 pm	updates	updates	Updates	Updates	Updates	Updates	Updates	Updates	Updates	Updates	Updates	updates
Board Meeting	31	Mar 7	28	25	23	FD	25	22	26	24	28	-
Special Events	Quartz-fest 17-23	Palm Springs Yuma		Visalia DX Cancelled	Dayton Ham-vention	ARRL Field Day 25-27			SOARA Picnic TBA	JOTA 16-18		SOARA Holiday Party TBA
Major HF Contests		ARRL DX-CW 20-21	ARRL DX-SSB 6-7 CQWPX SSB 27-28		CQWPX CW 29-30	ARRL Field Day 25-27			CQWW RTTY	CQWW SSB	CQWW SSB	
Volunteer Events	OC Chili Run	Paws Fur Pink OC Chili Run	OC Chili Run Baker to Vegas	Dessert Storm Rally Ride for Rwanda	HD Trails LH Mara-thon	ARRL Field Day 25-27	MV Fire-works 4				Vision Quest OC Mara-thon 7	

Dates subject to Change – Check the SOARA Web Site (http://www.soara.org) to verify locations and times or click on the live links in the table

SOARA Information

SOARA meets at the Norman P. Murray Center, 24932 Veterans Way, Mission Viejo, CA on the third Monday of every month at 7:00 PM. For the months of January and February the third Monday is a holiday and the meeting is held on the fourth Monday.

License Exams: Amateur License Exams are given prior to SOARA meetings, except June. Exams are at 6pm. Prior registration is not required and walk-in applicants are welcome. For June, exams are held at Field Day. For further information, email Sean Reigle, AJ6B, at aj6b@soara.org.

SOARA Library: SOARA has many amateur radio related books such as hand books, books about electrical theory, etc. available to lend out to club members. Contact Heiko Peschel ad6oi@soara.org for more info.

Web Site: SOARA maintains a web site with current club information. The URL is: http://www.soara.org/

Repeaters: The Laguna Beach, San Clemente, and Trabuco repeaters are open. The Santiago Peak repeaters are closed. For details or questions on the repeaters contact the repeater director, or repeater@soara.org.

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          2m  — 147.645 – (110.9)      Laguna Beach
          2m  — 146.025 + (110.9)      San Clemente
          2m  — 145.240 – (110.9)      Trabuco
D-STAR 2m  — 146.115 +  (K6SOA  C) Laguna Beach
          220 — 224.100 – (110.9)      Laguna Beach
          220 — 224.640 – (pvt)        Santiago Peak. (C)
          440 — 445.660 – (110.9)      Laguna Beach
D-STAR 440 — 445.705 – (K6SOA  B)  Laguna Beach
          440 — 447.180 – (pvt)        Santiago Peak. (C)
D-STAR 1.2G  1282.600 – (K6SOA  A)  Laguna Beach
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Nets:
- 40 meter HF (7.200 MHz +/- , Sundays @ 8 AM
- 10 meter HF (Technicians Welcome) (28.415 +/-) Sundays @ 9 AM
- General Membership Net - UHF/VHF (447.180, 147.645 & 224.640): Tuesdays @ 8 PM
- Astronomy – VHF 147.645: Wednesdays @7 PM
- D-STAR (146.115 C module): Wednesdays @ 8 PM
- Dinner Net – 147.645, 224.640, 447.180: Fridays at 7 PM
- Tech Net - 147.645, 224.640, 447.180: Saturdays @ 9 AM

- California Rescue Communications (Gordo Net) HF (7.250 MHz +/– for QRM): Weekdays @ 8:30AM
- MVRACES – 447.180: Tuesdays @ 7PM
- Tri-Cities RACES – 146.025: Wednesdays @ 8 PM
- LNACS – 147.645: Thursdays @ 7 PM
- OC Parks Fire Watch – 447.180: Thursdays @ 8 PM

SOARA OFFICERS

President: Ray Hutchinson, AE6H   949-322-8468
ae6h@soara.org

V.P.: Erik Wresch, W6INE   714-883-7694
w6ine@soara.org

Secretary: Charles Schultz
NY6I@soara.org

Treasurer: Ron Mosher, K0PGE   949-363-0047
k0pge@soara.org

SOARA DIRECTORS
Repeater: Brian Roode, NJ6N   949-257-2749
nj6n@soara.org

Publications: Dale Tyler W6EDT   949-360-1717
w6edt@soara.org

Membership: Vacant

Education: Steve Kuver, K6UVR   949-874-1972
k6uvr@soara.org

Technical: Tom Hobbs, AE6SH   949-887-6527
ae6sh@soara.org

Communications: Heiko Peschel,   949-421-7910
ad6oi@soara.org

SOARA APPOINTMENTS
Past President: Tom Hobbs, AE6SH   949-830-8131
ae6sh@soara.org

Activities Coordinator: Joe Perrigoue K7KCE
k7kce@soara.org

S. Saturdays: Ed Barnes, WA6ED   949-468-7706
wa6ed@soara.org

Raffle: Bill Colvin KM6FOY   km6foy@soara.org

Testing: Steve Kuver K6UVR   k6uvr@soara.org

Website: George Robinson KN6OFF
kn6off@soara.org

Ambassador: Spencer Ammermon, NG6K
ng6k@soara.org

Contacting Soara: Questions about SOARA? Postal mail: P.O. Box 2545, Mission Viejo, CA 92690
Send e-mail to membership@soara.org or leave a message at 949-667-0173
Facebook: K6SOA Twitter: @K6SOA