

QSA-5

Marin Amateur Radio Society Monthly Newsletter

Established 1933

November 2021

From Our President:

November. How did we get here? OK, that is a rhetorical question. The end of the year is almost upon us again. We are meeting in person this month and online this month. If you wish to attend in person, you need to sign up on Eventbrite. There is no charge, but we need to limit in person attendees, and have a list. If you want to attend in person, the link to sign up is in the invite email for this month's meeting. You may have read that Marin County has recently relaxed it's in door masking requirements. This update does not change our current rule requiring masking to attend in person. We would have to document that all attendees were fully vaccinated in order to meet without masks, and we are not prepared to do that. As this virus has surprised us several times already, we will continue to reevaluate our policy on in person meetings at each board meeting. Since our meeting attendance has improved meeting on zoom, we intend to continue to offer online meetings. We have acquired some new technology to support hybrid meetings. If you are in the club house, we will project the gallery view so attendees can see the folks on zoom. We will also have a camera facing the in-person attendees so you can see who is in the clubhouse. We have added some conference microphones so folks in the club house can hear you and you hear them. We did a dress rehearsal of the hybrid meeting for our October board meeting, and it went well. Of course, this is a larger meeting, and we may hit some bumps. Please accept my apologies in advance, as I will probably be the one to put my foot in it. Please don't hesitate to contact me if you have questions and

I would love to get any feedback after the meeting on how we can improve. You can email me at wa6uds@w6sg.net.

This being the November meeting the nominating committee for the board of directors is charged to present a list of candidates so before that date I want to beg you to consider running for the board. In our last election we had more candidates than available seats. That meant that a few folks who stepped up did not get elected. I once again want to thank those who stepped up, and I hope they will step up again. It is a good sign that people are interested enough in the future of the club to want to serve. It also creates the opportunity for new blood and new ideas in the board. The term of office is two years so approximately half the board is up for election each year. We generally meet 11 times each year, not meeting in July. We have been meeting on zoom, but we are now doing hybrid meetings. On the January board meeting we welcome the new members, and we will have new members this year since some of our current members are stepping down. At the January meeting the new board elects from its members the named offices: President, Vice President, Secretary, Treasurer. We also review the station trustees who are not technically members of the board but do get a vote on any question involving station licenses and operations. No prior board experience is required serve on the board. Please take a moment to think about setting the direction of the club as we go forward. If you want to run, please contact me at wa6uds@w6sg.net

73 de wa6uds

From the Editor:

November is here and with it, Thanksgiving. While the last year has been a roller coaster ride, we seem to have muddled through it. Speaking for myself, I have a lot to be thankful for. While I didn't strike it rich, I led a fulfilling life over the last twelve months and didn't have to face any of the heart-breaking situations many other

people did. I'm just happy to be healthy and alive. With 2022 rapidly approaching and 2021 ending, we can hopefully all find ourselves heading towards better times.

I'm working on some new sections of the QSA-5 but need your help. I would like to see some more ideas from you regarding the publication's content. If you want to write a piece for the QSA-5, we'd be happy to publish it (provided it is radio or electronics related). While I would love to be an editor that can read his reader's minds, I haven't developed that skill and suspect I wouldn't want to. I need to hear from you regarding subject matter. I'll say it again, this is your publication. I merely type, format and occasionally man the rudder and keep the ship going in straight line. I can really use your help, even if you email with only a one-line suggestion for something you want to see in the QSA-5! You can email me at: QSA-5Editor@w6sg.net

General Membership Meeting: October 1st, 2021

Call to Order: 19:31 Hours (7:31 PM)

Approve minutes: Of August meeting. Curtis WA6UDS noted that he forgot to send out the latest QSA-5 so previous minutes will be up for stacked approval at the next meeting along with these minutes.

Adopt Agenda: Adopt Agenda Without additions.

New Members:

John Woo KN6RAP – Novato

Spencer Holtaway K6ZKE - San Rafael

Mel Nunes AB6QM – Novato

Mary Preiksaitis AC6OV - Novato

Board Actions:

In person meetings: Board meeting next month will be a hybrid test run with board members in the clubhouse and other attendees via Zoom.

Disposition of donated equipment: Should start officially next week when the sheet is sent out as both the brochure and bid form, per Skip KJ6ARL.

Presentation: N/A

Fun with Ham Radio:

Bill AK3Q (formerly AI6SJ) discussed open and closed source SDR hardware he's been working with, i.e. the [Hermes-Lite 2](#).

Brian K6EZX received advice from the group about the best place to mount a new antenna on his pickup truck.

Andrew KI6UOC told members about a power situation on the pole outside his home that burned after a high tension line arced and dropped onto it.

Andrew KE6HID invited everyone to come to the [Hamfest in Sonoma](#) tomorrow, 10/2.

Bill AK3Q mentioned that the Hermes Lite developer recently won the [ARRL Innovation of the Year](#) award.

Secretary – Communications: N/A

Treasurer's Report:

Bruce N6VLB mentioned that property taxes arrived and are soon being paid. He has also processed payment for the new comm can shelter cover.

Milt KM6ASI reminded the club that when the new cover arrives for the comm can we will need to raise a work crew.

Committee and other Reports:

1. Membership: 144 | 104

2. Facilities:

Rob NZ6J reported that he has an OK to launch [the silent auction spreadsheet](#), which he will do after tomorrow's Marin Century public service commitment is behind us.

Milt KM6ASI suggested that it would be good to arrange a short field trip to the back of the clubhouse lot next time we have the board together (10/14/21 meeting?) so the members can see the drainage problem we need to resolve, per last board meeting's discussion.

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3. Education: N/A

4. Repeaters:

Milt KM6ASI said we have the West Peak repeater gear ready to install which will finish linking it to Middle Peak. Install will take place after the public service schedule calms down and Doug KF6AKU has a time slot on his calendar.

5. VE: Ken AB6JR reported that we have 10 applicants currently slotted for 10/09/2021

6, VOAD:

Skip KJ6ARL reports that VOAD/RCV has 7 Community Based Orgs lined up to be the benefactors of the new RCV group that is working under county auspices. RCV is looking for more operators.

Old Business: N/A

New Business:

Curtis WA6UDS said there will soon be a MARS board election and encouraged members to raise their hand and be a candidate. The only qualification is to be a club member in good standing. (Number of slots open is still TBD.)

Good of the Order:

Adjourn: Meeting adjourned at 20:32.

Post-agenda Presentation: N/A

Next General Meeting: November 5th, 2021

Marin Amateur Radio Society Board of Directors Meeting

Call to Order

President: Curtis Ardourel WA6UDS

Secretary: Brian Cooley K6EZX

Vice President: Milt Hyams KM6ASI

Trustee W6SG: Mitch Martin WU1Q

Director/Trustee K6GWE: Doug Slusher KF6AKU

Director: Skip Fedanzo KJ6ARL

Treasurer: Bruce Bartel N6VLB

Director: Mark Klein KM6AOW

Adopt agenda: M/S/A

Approve minutes: For 8 July and 12 August meetings

Secretary's Report/Communications: Brian K6EZX says he will be gathering feedback about today's pilot hybrid meeting to inform a hybrid general meeting next.

Treasurer's Report: Bruce N6VLB reported that club Financials have been sent out. This is an expensive month with Part 1 property taxes being due. Doug KF6AKU mentioned that we typically paid prop taxes in one lump sum (Parts 1 and 2) annually, Doug will review whether our current cash status allows that.

Bruce also mentioned that we are historically a little loose about documentation of expenses, something Bruce would like to discuss tightening up at the next meeting.

Committee and other Reports:

1. **Membership** – 145 104%. Curtis WA6UDS reported that another application came in earlier today as well.
2. **Education** N/A
3. **Facilities** Skip KJ6ARL reported that we would be well advised to check into a program for matching funds that is pasted at bottom of this agenda. Milt KM6ASI says the drainage problem area in the back of our property is likely going to fall under a PG&E easement which may complicate our rights to work on that part of the property. Dirck KM6VKQ is a good contact to probe this as he used to be a real estate lawyer.
4. **Public Service:** Pam N6PDW reported that our flurry of events have gone well and members are pleased to be involved out in the field again. Michael Fischer is in contact with a potential new "client" (Pacific Coast Endurance Event) to support next year with nearly 1,000 entrants? Being held on Nov

19/20 this year, so too soon for us to support in 2021 but would be good to have a few operators go and observe this year to help us plan next year.

5. **Technical** Milt KM6ASI reported that Doug KF6AKU and Dan K6NQZ went up to Tam West to install the new receiver node up with a link to Middle Peak (PL 192.8) and that it's working really well. But now there may be something off with the Bahia repeater: During last Tuesday's net some members were having trouble. Steve KB6HOH reported significant issues from his Novato location that made it sound like the output may be off or just operating on the exciter. Several board members reported that they were also recently having a problem hearing Bahia.
6. **VOAD (RCV)** Skip KJ6ARL reported that on the 23rd of this month there will be a countywide simplex test to determine if a simplex net can be established readily and traffic can be relayed accurately without it becoming a game of "Telephone".

Milt KM6ASI moved that we comp a free club membership to a newly passed 18-year-old ham (KN6RAP) as a move to encourage new, younger members. M/S/A unanimously. This is a one off but a carve out of an existing policy that we give a first year free to anyone who gets their new license *and* has taken our training to do so (which has not been offered in a while).

Old Business:

- **Tower:** Milt KM6ASI attached correspondence to these minutes that summarizes his difficulty in getting County Planning to help us move this along, with a litany of fee and permission issues that vacillate and conflict as the process has proceeded.
 - **Life membership:** Curtis WA6UDS plans to build a pro-forma budget that will address the fiscal impacts of this.
 - **Frequency coordination:** No change since last meeting on the two frequencies we are currently processing with NARCC.
 - **Sale of catalogued equipment:** Silent auction is live, with about only about 5 bids received so far. Close date is Oct 24th.
 - **Hybrid Meetings:** As of this board meeting the newly acquired Zoom/conference technology seems to be working quite well. Marin County just went into yellow stage, which is encouraging for the prospect or hybrid meetings. We will monitor the mask guidance from the county but expect that if Yellow remains in place for 3 weeks, that will be dropped.

Milt KM6ASI suggests we monitor that progress and adopt that county's policy regarding mask wearing indoors. Milt also suggests we do a hybrid meeting with a limit of 20 people, which Bruce notes would require an RSVP process via EventBrite or similar. Curtis will send out the meeting notice early enough to give people a chance to consult their calendars and reply accordingly. Brian will check in all in-person attendees in these minutes to serve any future contract tracing that is needed. M/S/A

Ken AB6JR mentioned that we had adopted a previous policy requiring vaccines and mask to attend a meeting in our building. Milt moved that going forward we adopt whatever the county policy is at the time, not diverge from it. So moved by Milt, superseding the prior policy that was different and stricter.

- Website redesign Bruce Wolfe KI6BSL N/A

New Business:

- Drainage: Board did not get a chance to inspect the drainage area today. See Milt's comments above about uncertain ability to do drainage work under their lines and implied PG&E right of way. Milt also noted that the county leaves it to us to get a permit for such work, but if PG&E easement supersedes that, the path forward would be murky.
- Public Service Ballcaps: Michael K6MLF asked that we acquire 25 @ \$15 Each - \$375 total- as we are out completely. Skip KJ6ARL asked if we need to move on this now, or wait until the season is over to make it an end of year thing in case we have any financial pinch due to property taxes. M/S/A that we move ahead and authorize purchase of the hats asap.
- Board election nominating committee. Members terming out are Doug KF6AKU and Milt KM6ASI who would like to step down for at least a year. Skip KJ6ARL will stand for re-election. Nominating committee volunteers were called for: Milt and Doug both volunteered and will be joined by Curtis WA6UDS for the required three persons on said committee. Steve KB6HOH will pitch running for the board on the next Sunday morning net. We will take up the matter of Trustee WU1Q top of next year; As trustee he does not term out even though he has been an absentee for some time.
- Nominations for are being accepted by Curtis via email. All awards are optional, none have to be awarded. A list of recent award winners is on our site under Club Awards.

- Ham of the year
- Hi Roberts Award (Longevity of involvement/service)
- John Butler “Elmer” Award
- Ted McMillian Youth Achievement Award Probably N/A this year since Bo has left the club and won last year.

Good of the Order N/A

Executive Session: N/A

Adjourn 20:53

Next Regular Meeting November 5th, 2021

Next Board Meeting November 11th, 2021

Club Financials

Marin Amateur Radio Club Balance Sheet Comparison As of September 28, 2021

Cash Basis Tuesday, September 28, 2021, 11:12 PM GMT-07:00 1/1

	TOTAL	
	AS OF SEP 28, 2021	AS OF SEP 28, 2020 (PY)
ASSETS		
Current Assets		
Bank Accounts		
B of A Building account - 8795	2,346.63	1,305.67
B of A General account - 4328	12,175.37	12,066.01
CD	25,000.00	25,000.00
Money Market	5,000.00	5,000.00
Public Service	234.91	
Skip Fedanzo	81.84	
Total Bank Accounts	\$44,838.75	\$43,371.68
Total Current Assets	\$44,838.75	\$43,371.68
Fixed Assets		
club house- 27 Shell Rd. MV	58,983.00	58,983.00
Total Fixed Assets	\$58,983.00	\$58,983.00
TOTAL ASSETS	\$103,821.75	\$102,354.68
LIABILITIES AND EQUITY		
Liabilities		
Total Liabilities		
Equity		
Opening Balance Net Assets	124,400.00	124,400.00
Retained Earnings	-22,636.76	-10,052.02
Net Income	2,058.51	-11,993.30
Total Equity	\$103,821.75	\$102,354.68
TOTAL LIABILITIES AND EQUITY	\$103,821.75	\$102,354.68

Marin Amateur Radio Club
Profit and Loss
January 1 - September 28, 2021

Cash Basis Tuesday, September 28, 2021 11:08 PM GMT-07:00 1/1

	TOTAL	
	JAN 1 - SEP 28, 2021	JAN 1 - SEP 28, 2021 (YTD)
Income		
Donations	262.03	262.03
Dues	6,676.47	6,676.47
Income club activities	828.00	828.00
Rent	22,525.00	22,525.00
Sales of Product Income	20.32	20.32
Total Income	\$30,311.82	\$30,311.82
GROSS PROFIT	\$30,311.82	\$30,311.82
Expenses		
Awards	400.00	400.00
Car & Truck	1,075.83	1,075.83
Equipment	< \$2,500 322.79	322.79
Food	1,536.00	1,536.00
Garbage	284.24	284.24
Insurance	6,140.35	6,140.35
Job Supplies	87.37	87.37
Legal & Professional	25.00	25.00
Reimbursable Expenses	2,965.04	2,965.04
Rent & Lease	150.00	150.00
Repair & Maintenance	2,281.66	2,281.66
Repairs & Maintenance	813.34	813.34
Repeater	0.00	0.00
Taxes & Licenses	4,550.56	4,550.56
Telephone	93.24	93.24
Uncategorized Expense	1,127.50	1,127.50
Utilities	5,701.35	5,701.35
VE Session	188.00	188.00
Water	511.04	511.04
Total Expenses	\$28,253.31	\$28,253.31

NET OP INCOME	\$2,058.51	\$2,058.51
NET INCOME	\$2,058.51	\$2,058.51

This is a news release, included within the board meeting minutes, that you should look at regarding drainage issues and flooding due to rain. Since Northern California was recently hit with a massive rainstorm, QSA-5 felt this news release was of importance to its readers. After the news release, you will find agenda item 10 from the October MARS Board meeting regarding permitting issues. We should all thank Milt for dealing with the often than not, confounding world of local government bureaucracy.



Drainage Assistance Pilot Program Expands

Residents in unincorporated areas can apply for financial aid for culvert repairs:

San Rafael, CA – Many private property owners are unaware that the maintenance of underground pipes and culverts on their property is often their responsibility. That can be the case even when the infrastructure on private property is an important drainage component for the community. Whether they realize it or not, homeowners may be relying on their neighbors for protection against water damage and flooding.

The [Marin County Department of Public Works](#) (DPW) offers a [Drainage Assistance Pilot Program](#) designed to assist private property owners in unincorporated areas of Marin with the repair or replacement of deteriorated culverts that serve public benefit, which can be cost prohibitive for some residents. Since the pilot program's initiation in 2019, nine residents have applied; two met the program criteria and have received financial assistance for repairs on their property.

The program has now been expanded to make it applicable to more homeowners. All applications are evaluated on a list of criteria and conditions, which has been revised from the initial set. While the pilot initially only allowed for in-place repairs, such as slip-lining a pipe, the expanded options now include excavation and replacement of culverts with equal or larger diameter pipe.

Driveway culverts are excluded from the program. Neighbors sharing responsibility for drainage facilities can also band together to make improvements to deteriorated pipes in their neighborhood.

"We have expanded this pilot program with the goal of opening it up to more of Marin's residents and improving public safety across the board," said Eric Miller, Interim Assistant Director of DPW. "The effort is intended to be beneficial in helping reduce the risk of future damage not only to private property but also to public infrastructure across the county."

Drainage facilities, such as underground pipes and culverts, play a crucial role in maintaining proper waterflow and, in certain cases, protecting communities from flooding. If not properly maintained, drainage facilities deteriorate over time, which can become a public safety risk for neighbors as well as those living above the infrastructure.

Approved applicants would receive a cash contribution up to 50% of the total improvement costs, but not to exceed \$30,000. Condo units, which do not include apartment units, are assessed differently and would receive a cash

contribution up to 50% of the total improvement costs, but not to exceed \$50,000.

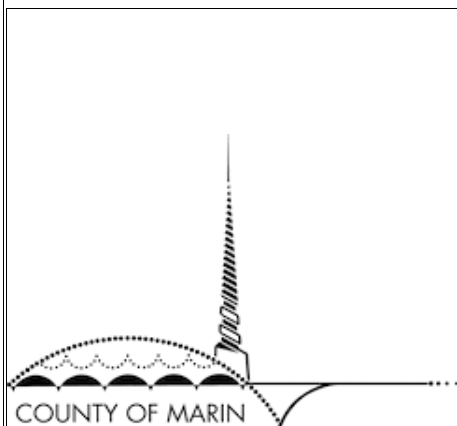
The program has \$357,000 in funding set aside for allocations. Once fully dispersed, the program would be reevaluated. The program would be covered by the County's General Fund, but funding for any future iteration would be informed by the results of the pilot.

Approved projects under the program would move forward with the understanding that the County would not be involved in the design, contracting, or administering of the actual project implementation. Property owners are required to obtain all necessary permits associated with the work. All future ownership and maintenance of the improved private drainage facilities would remain the property owner's full responsibility.

For more information, visit the [program webpage](#).

You have subscribed to News Releases & Advisories for Marin County. This information has recently been updated.

Visit the [Newsroom](#) to view all County news releases.



Not all events are sponsored by the County of Marin. County of Marin sponsored events are required to be accessible. If you are a person with a disability and require an accommodation to participate in a County program, service, or activity, requests may be made by calling (415) 473-4381 (Voice), Dial 711 for CA Relay, or by [email](#) at least five business days in advance of the event. We will do our best to fulfill requests received with less than five business days' notice. Copies of documents are available in alternative formats upon request.



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This email was sent to mbruvry@sonic.net using GovDelivery Communications Cloud on behalf of: County of Marin



Agenda Item #10: The Board will hear a request from the Department of Public Works to adopt a resolution setting the pilot program phase II for County assistance toward drainage improvement projects on private property. In December 2019, the Board approved a private property drainage assistance pilot program and set aside \$400,000 as a one-time allocation to provide financial assistance to private property owners to improve private culverts that serve the public interest. These culverts are the responsibility of the property owner to maintain, but maintenance may be cost-prohibitive and ignored. After a review, staff identified opportunities to modify the program criteria to improve the County's ability to assist as many property owners as possible.

Need more info? See the [staff report](#) [HYPERLINK](#)

"<https://www.marincounty.org/-/media/files/maringov/board-actions/2021/september/210928dpwprivatepropertydrainageprogltr.pdf?la=en>" [[PDF](#)] about drainage improvement projects.

Contact: [Jason Wong](#), Senior Civil Engineer, Department of Public Works

RE: TOWER

All-

I have been dealing with the planning department for more than 5 months now trying to get a permit for our antenna tower base. I submitted the original application on March 10th, and it was referred to development and planning. One of the problems was the person that was assigned the project did not know anything about amateur radio and what we were trying to do. Finally, after almost 2 months I personally went to the Planning Department to try to find out what was going on. I was given another set of requirements, which with the help of Dirck Brinkerhoff, we met. I returned them to the Planning Department. They stated that was what they needed and that we would have to pay a fee of \$1441.96 for issuance of a permit. I suggested that this amount was exorbitant and represented another 29% over the contract cost for the project. They said I could apply to Bill Kelley, the Deputy Director of the Community Development Agency, for a waiver or public benefit organization reduction in fees. Last week he notified me that he was approving such a reduction and returned it to the individual in permitting assigned our project for

calculation and he would be in contact with me. Instead, I received the e-mail below. I called the contact person on the letter, who was the same person I was dealing with back in the March/April timeframe. He still does not understand what we are trying to do. I explained to him that under FCC regulations he cannot say no, only require accommodations, which only seemed to aggravate him. He thinks somehow, we are trying to put in a radio station and is referring our application to County Counsel and would be back to me.

I would suggest pulling the plug on our simple request, but I don't want to give them the satisfaction. There may be good reasons to deny the permit, but bureaucratic incompetence is not one of them.

Milt

-----Original Message-----

From: Bertain, Joshua <jbertain@marincounty.org>

To: mmhyams@aol.com <mmhyams@aol.com>

Sent: Wed, Aug 11, 2021 10:26 am

Subject: Building Permit Denial - 27 Shell Rd., Mill Valley

Good morning,

My name is Joshua Bertain with the Marin County Planning Division. The building permit application for the address listed above was transmitted from the Building and Safety Division to the Planning Division. Upon review, it was determined that Planning approval is required before the proposed scope of work can be approved with a building permit. Please review the attached documents for further information.

Attachments:

- Building Permit Denial and Notification of Zoning Non-Compliance
- Planning Division's Application Guide
- Planning Division's Application Submittal Checklist
- Planning Permit Application

Best,

Joshua Bertain

ASSISTANT PLANNER

County of Marin
Community Development Agency
3501 Civic Center Drive, Suite #308
San Rafael, CA 94903
415 473 3171 T
415 473 7880 F
jbertain@marincounty.org

(SEE COPY OF RECENT LETTER, BELOW)

Questions and Answers

This section of our publication is dedicated to any questions you have. If there is something you need or a problem you cannot solve, this is the place to seek assistance. Who provides the answers? Readers of the QSA-5 publication do!

While the next question was not directly sent into the QSA-5 Question and Answer section of the newsletter, I believe that the subject matter warrants our attention: Brian K6EZX had an antenna question and asked members for advice and received advice from the group at the October meeting regarding the best place to mount a new antenna on his pickup truck. We did some research and found several sources for antenna mounting issues:

Here's a link to the Radio Reference website's forum page that discusses this question:

<https://forums.radioreference.com/threads/best-place-to-mount-dual-band-antenna-on-pickup-truck.324814/>

Here is a page dedicated to mobile antenna mounting from Comet Antenna:

<https://cometantenna.com/land-mobile/no-holes-mobile-mount/mobile-mount-faqs/>

This final link comes from KV5R and is nicely detailed and explains the subject clearly.

<https://kv5r.com/ham-radio/mobile-antenna-placement/>

The next question, which was previously published, comes from Warren, regarding an antenna mount for his Tesla: I've been using a mag mount antenna with my Kenwood TM-V71A in my car (can't hit Mt Tam from home), but I'll be taking delivery of a Tesla Model Y soon, and it has a glass roof. What's the recommended antenna and mount for a Tesla?

Hi Warren, here are some links I found regarding radio installation on Tesla vehicles. While they cover the entire installation, they do give some thoughts on mounting an antenna.

Phil's Osophies: Phil describes his installation of a ham radio rig on his Tesla:

<https://blog.rosenberg-watt.com/2019/09/24/model-3-ham-radio-install/>

Tesla Owners Forum: You may find this a good starting point for trying to solve your problem.

https://forums.tesla.com/discussion/84568/ham-radio-and-m3?_cf_chl_jschl_tk__=pmd_GBBJrn3eYw0WYbQUxJQjCdDXCxYnc6lu0d6adiUvdYc-1632775692-0-gqNtZGzNAjujcnBszQjR

Marin Amateur Radio Society News

October Critical Mass Event

Here's a recap of the Critical Mass event that took place in October. A big thanks to Rob NZ6J for providing the commentary and photographs. A special thank you to everyone that participated.

We met at the back of the Jury parking lot at the Marin Civic center at 10am



There were 12 attendees. After Milt KM6ASI had us all connect to the 442.175 repeater on San Rafael Hill we talked about field deployable antennas for VHF and UHF. Milt demonstrated the efficacy of a steel pizza dish as a ground plane for a mag mount antenna, reducing SWR from 6:1 to 1.6:1. Milt's jeep mount and standalone ground plane were discussed as well as battery choices.



Skip showed off his orange boxes and antenna with orange accented feed lines, ostensibly to discourage birds or livestock.



Dirck demonstrated his nifty sleeve antenna securely mounted inside Ch 40 PVC.



James enlisted volunteers to hold the guys while erecting his 44-foot telescoping mast. Unfortunately, the final stage collapsed spectacularly, though no one was injured!



He points out that the 44-foot option is rarely needed, and the 26-foot and 31-foot versions are more stable, and usually sufficient. He has provided details as follows

KI6RGB Field Antenna Setup:

Option A: 26' Tower (13' Tripod with 13' kite pole) Note: Requires stakes into bare ground.

Option B: 31' Tower (31' kite pole stand-alone, no tripod) Note: Requires stakes into bare ground.

Option C: 44' Tower (13' tripod with 31' kite pole) NOTE: Not recommended, very unstable during setup. Setup requires 4 people min. Requires stakes into bare

ground.

Ed Fong DBJ-2 VHF UHF Dual Band Roll Up portable Antenna 50W w/ 90" total length (BNC extension = 80") (170" tot w/ extension)

DBJ-2 VHF UHF Dual Band Roll Up portable Antenna

2 meters, 70cm, MURS, GMRS, ham

eBay \$42.00

Option A: Jackite Fiberglass Telescoping Kite Pole, Black, 13'

<https://www.jackite.com/online-store/13-ft-Thick-Tip-Black-Fiberglass-Windsock-Pole-p76516513>

(Note: This is a more practical setup than the 31' kite pole if used with the 13' tripod)

\$34.99

Option B & C: Jackite Fiberglass Telescoping Kite Pole, Black, 31'

<https://www.jackite.com/online-store/31-ft-Thick-Tip-Black-Fiberglass-Windsock-Pole-p76525114>

(Note: This is only practical as a stand-alone setup. Using this 31' mast with the 13' tripod is quite unstable)

\$79.95

Option A & C: Impact LS13HBI 13' tripod w/ telescoping mast

Impact Heavy-Duty Light Stand (Black, 13')

<https://www.amazon.com/Impact-Heavy-Duty-Light-Stand-Black/dp/B06XGLP733>

\$52.95

Cable for antenna: ABR Industries 218XATC-PL-50 50 ft Coax UHF PL-259 Male

Both Ends LMR-240UF Cable (-3.6dB @150Mhz/100ft)

<https://www.hamradio.com/detail.cfm?pid=H0-011988>

\$44.95

Boltmaster 3/8-16 in. D X 36 in. L Steel Threaded Rod

<https://www.acehardware.com/departments/hardware/metal-sheets-and-rods/steel-rods/52107>

\$6.99

36" ground steel stake (with drilled holes) for Kite Pole Mount
ACE Hardware

3 x 18" steel stakes (with drilled holes)
ACE Hardware

3 x orange plastic caps for steel stakes
ACE Hardware

Gear Aid 550 Paracord - 100' - orange reflective parachord
<https://www.rei.com/product/149983/gear-aid-550-paracord-100?color=ORANGE%20REFLECTIVE>

\$12.95 / 100ft. (Note: - need 3 x each of 41', 33' and 25', = 300 ft. total for a 44' tower, use less for a shorter tower)

Nite Ize CamJam Mini Cord Tightener Small Compact Durable (4-Pack of 2) Note: need 9 total pieces

https://www.amazon.com/Nite-Ize-Tightener-Compact-Durable/dp/B01MUBI9US/ref=sr_1_5?crd=77Y31KWKIM6P&dchild=1&keywords=nite+ize+camjam+mini&qid=1633035534&srefix=Nite+ize++camjam%2Caps%2C250&sr=8-5

\$11.70

Nite Ize KeyRack Locker (locking S-Biner)

https://www.amazon.com/Nite-Ize-Stainless-Carabiner-Separately/dp/B00FIX12AG/ref=sr_1_24?dchild=1&keywords=nite+ize+s&qid=1633035750&sr=8-24

\$9.47 (Note: Order 2 packs, 10 total pieces required)

Various D-rings, hose clamps, Cotter (Bridge Hitch Hair R) Pin Clips, fender washers and 3/8" nuts.

Ace hardware

Quantity of 1-1/2" polyethylene foam rubber donut spacers - hand cut with hole saw out of sheet of closed cell polyethylene foam rubber.

Extras:

Collins 4 lb Steel Milled Face Engineer Hammer 16 in. Hickory Handle

<https://www.acehardware.com/search?query=STAKE&pageSize=120>

\$27.99

Gator Cases Stand Carry Bag with 50" Interior; Holds tripod and kitepole, stakes, etc. (GPA-SPKSTDBG-50)

https://www.amazon.com/Gator-Interior-Microphone-Lighting-GPA-SPKSTDBG-50/dp/B001IM5KFY/ref=sr_1_5?dchild=1&keywords=GATOR+Cases+50%22&qid=1633035319&sr=8-5

\$24.99

Second Silent Auction

The Marin Amateur Radio Society held a silent auction to reduce the amount of donated equipment currently occupying our clubhouse. While the auction's deadline has passed, we've included it within our pages because it qualifies as club news. Our club President, Curtis WA6UDS, had this to say regarding the auction's start:

Greetings:

Our silent auction of equipment is now open. The link below will take you to a Google sheet listing the items for sale. It includes descriptions for every item and photos of many. Enter your bid and contact information following the instructions in the sheet.

- Bidding ends 26 October 2021 at 17:00
- All sales are final
- No returns
- All items sold as is
- You may set up a time to inspect items at our 27 Shell Road, Mill Valley Club House by contacting either Rob Rowlands NZ6J, rowlands47@gmail.com or Skip Fedanzo KJ6ARL drferret@comcast.net
- You may share the link but please do not download the sheet and share

that as only bids entered directly into the Google Sheet will be considered.

The link

<https://docs.google.com/spreadsheets/d/1ZKvDYA6fXsBl4Q4EYt45u23W2g0WDSxnK7yzi3KDLk0/edit?usp=sharing>

Happy hunting!

73 DE WA6UDS

October VE Test Session

The Marin Amateur Radio Society held yet another successful exam session for individuals getting their first license or upgrading their current license. Amateur radio stays alive and grows because new people become involved in our passion. I call it a passion rather than a hobby because most of us who participate in Amateur radio give it our all. Part of giving our all is volunteering our time to give FCC required tests to new amateur radio operators. Once again, we need to thank Ken AB6JR and his team, which includes, Jerry Foster WA6BXV, Michael Fischer K6MLF, Mel Nunes AB6QM, Mark Klein KM6AOW, and Jim Saltzgaber KM6WWY. These gentlemen gave up their time to bring new members of our community into the fold. Here's a report from Ken regarding the results of October's VE session (held on October 9th, 2021):

"We had 8 Applicant take the exams. 3 upgraded to a General License. 5 passed the Technician's License. 1 of the 5 also passed the General License exam, which made a total of 4 new General License operators at the session. 1 of the 5 that passed the Technician's exam is a 10th grader at Novato High School."

Wow, a tenth grader! It great that we are getting younger members joining the amateur radio community (they can do the heavy lifting us old folks can no longer handle). Ken also mentioned that the next tentative VE Session will be January 8th, 2022. The QSA-5 will keep you posted.

September 2 Meter Critical Mass Event

This is a holdover from the October issue of the QSA-5. However, it is an important event because amateur radio is often the only form of communication during a disaster. Here are some photographs of the Marin Amateur Radio Society's two-meter critical mass event in September. What is the two-meter critical mass event? It's an opportunity for amateur radio operators to practice their communication skills in preparation for emergency situations. Who can participate? Any licensed Amateur Radio Operators with any level of experience. All you need to do is bring your radio, paper, and pencil. The San Francisco Radio Club holds a two-meter critical mass event on the second Saturday of each month from 10:00 until 12:00. The Marin Amateur Radio Society held a two-meter critical mass event on September 19th, 2021. The event took place behind the Marin Civic Center in the Jury parking lot.

At this event, the club members present were able to get MESH access to Dollar Hill. Milt KM6ASI, started programing *the* new Dollar Hill UHF repeater (442.175MHz, +, 162.2Hz), and playing with the AREDN mesh. If you have any questions about upcoming critical mass events, email the QSA-5 or drop by our monthly club meeting. Here re some photographs of the event.









Help Extend the SF Emergency Wireless Emergency MESH

Because the San Francisco Emergency Wireless Emergency MESH is such an important project, we are again reposting this writeup about it.

From Rob Rowlands: We have about 6 nodes working in Marin so far and need people with property in high places to host more nodes. The mesh depends on line of site (LOS) paths between nodes interworking and while we have a great site on Wolfback ridge above Sausalito, there are multiple places we can't reach, for example the Club house! If you have access to homes or buildings with great views,

we may be able to mount a node, regardless of whether you want to connect (see the following page for a picture of the node).

http://meshmap.sfwem.net/map_display.php#11/37.8586/-122.3836



This is an example of a MESH Node

All it takes is space to mount a \$50 radio on a wall and connect it via ethernet cable to a power feed adapter. The radio node is about the size of a small loaf of bread and can be painted to appease your family! Call Michael Fisher (415) 519-2201 or Rob Rowlands (415) 849 5667 if you can help.

New Slack Chat Channel for MARS Members

Join our new Slack channel to chat about ham radio!

From Rob Rowlands: "Slack" is used extensively in industry and academia to network people, especially since Covid-19. MARS now has a Slack channel, "Marin Amateur Radio Society". Go to https://join.slack.com/t/marinamateurr-sq15924/shared_invite/zt-r9ocah4l-4G7Pl8LAOssMMsnfIQ8QcQ. There is also a slack channel for the San Francisco Amateur Radio club that is highly active.

Ham Radio News

Each month, QSA-5 searches the internet for stories about amateur radio in the news. As editor of our publication, I merely present these articles and do not take a position regarding their message or content. This first story comes to us from The Vindicator newspaper in Pennsylvania:

Ham radio users reach across world: An interesting article about the power of amateur radio:

<https://www.vindy.com/news/local-news/2021/06/ham-radio-users-reach-across-world/>

Indian Radio Amateurs Help to Coordinate Disaster Relief in the Wake of Flooding: This article comes from the ARRL regarding Amateur radio operators in India assisting in the relief efforts going on after massive flooding has left many parts of the country devastated:

<http://www.arrl.org/arrlletter?issue=2021-10-28#toc10>

Upcoming Conventions: Here are a few of the upcoming ARRL Section, State, and Division Conventions It's further down the page so you'll have to do some scrolling on the webpage:

<http://www.arrl.org/arrlletter?issue=2021-10-28#toc16>

Ham Radio Operators Helping Family Members Locate Caldor Fire Evacuees: This piece promotes the use of amateur radio during emergencies and/or disasters:

<https://sacramento.cbslocal.com/video/5908770-ham-radio-operators-helping-family-members-locate-caldor-fire-evacuees/>

ARRL, RSGB Announce Joint Events to Celebrate Centenary of Ham Radio Transatlantic Success: The ARRL and the Radio Society of Great Britain are planning to celebrate the one-hundred-year anniversary of the transatlantic cable:

<https://www.arrl.org/news/arrl-rsgeb-announce-joint-events-to-celebrate-centenary-of-ham-radio-transatlantic-success>

FCC Regulatory News

Here are the current regulatory changes and FCC news as it applies to Amateur Radio. This section of the QSA-5 newsletter was introduced earlier this year. We will add new regulations and rules monthly, removing the older regulations and rules as new regulations/rules are introduced. As of the August issue of the QSA-5 newsletter, this list of FCC regulations and changes will be reduced, only covering this year's new regulations and rules. The newest regulations and changes will appear at the top of the list. Note that we are not able to cover every change the FCC has made this year within our publication:

FCC Orders Amateur Access to 3.5 GHz Band to “Sunset” It doesn’t look for amateur access to the 3.5 GHz band. While many amateur radio operators, especially those who hold new licenses, may not be familiar with this band, some older license holders (especially those with specialty interests) use it. Here is the article from the ARRL:

<http://www.arrl.org/news/fcc-orders-amateur-access-to-3-5-ghz-band-to-sunset>

The FCC Headquarters Relocates: The government organization that regulates amateur radio is moving their headquarters. Here’s a piece on the move from the ARRL:

<http://www.arrl.org/news/fcc-headquarters-relocates>

ARRL Urges Members to Join in Strongly Opposing FCC’s Application Fees Proposal: The ARRL is asking their members to oppose the FCC application fee proposal. Here’s the article:

<http://www.arrl.org/news/arrl-urges-members-to-join-in-strongly-opposing-fcc-s-application-fees-proposal>

FCC Extends Filing Deadlines for Affected Louisiana Parishes and Mississippi Counties: Because of the devastation of Hurricane Ida, the FCC is extending filing deadlines for ham radio operator:

<https://www.arrl.org/news/fcc-extends-filing-deadlines-for-affected-louisiana-parishes-and-mississippi-counties>

FCC Grants 60-Day Waiver of Part 97 Data Rate Rules for Hurricane Relief Traffic: The FCC has granted a sixty-day waiver permitting radio amateurs handling hurricane relief communications on HF to use any protocol that would comply with the FCC’s rules but for the symbol rate limits.

<https://www.arrl.org/news/fcc-grants-60-day-waiver-of-part-97-data-rate-rules-for-hurricane-relief-traffic>

FCC Grants Temporary Waiver to Permit Higher Symbol Rate Data Transmissions for Hurricane Ida Traffic: The FCC has granted an ARRL emergency request for a temporary waiver intended to facilitate relief communications in the wake of Hurricane Ida.

<https://www.arrl.org/news/fcc-grants-temporary-waiver-to-permit-higher-symbol-rate-data-transmissions-for-hurricane-ida-traffic>

FCC Application Fees Unlikely to Go into Effect Until 2022:

Last year, the FCC announced that they would be increasing the cost of Amateur Radio licenses. It has drawn both criticism and support from radio operators across the United States. Here's a link to the ARRL reporting on the increase.

<http://www.arrl.org/news/fcc-application-fees-unlikely-to-go-into-effect-until-2022>

FCC to Re-Establish Technological Advisory Council, Solicits Membership Nominations:

The FCC is seeking nominations for a chairperson and members of the Technological Advisory Council (TAC). Here is a link to the ARRL article.

<http://www.arrl.org/news/fcc-to-re-establish-technological-advisory-council-solicits-membership-nominations>

FCC Investigating Alleged "Jamming" on 40 Meters:

Amateur radio operators have reported that there is some sort of signal jamming on the 40-meter band. Here is an article from the ARRL that covers the story in greater detail.

<https://www.arrl.org/news/fcc-investigating-alleged-jamming-on-40-meters>

FCC Reaffirms Nearly \$3 Million Fine for Marketing Unauthorized Drone Transmitters: While not directly related to amateur radio, this article from the ARRL reminds us that manufacturers of any device that uses a radio frequency based control or communication system is regulated.

<https://www.arrl.org/news/fcc-reaffirms-nearly-3-million-fine-for-marketing-unauthorized-drone-transmitters>

FCC Seeks Comment on Potential Impact of Global Semiconductor Shortage:

This is an important read for anyone that is involved in electronics, or anyone who owns or is considering the purchase of “smart” electronic devices. There is a global semiconductor shortage, and the FCC is asking for commentary regarding this potentially serious problem:

<http://www.arrl.org/news/fcc-seeks-comment-on-potential-impact-of-global-semiconductor-shortage>

FCC Seeks Comments in Proceeding Involving 70 and 5 Centimeters:

This article from the ARRL was published on June 24th, 2021. The gist of the article is this: The FCC is soliciting a second round of comments regarding the use of portions of the 70cm and 5cm bands for commercial space entities. Here’s a link to the full article:’

<http://www.arrl.org/news/fcc-seeks-comments-in-proceeding-involving-70-and-5-centimeters>

First-Time Exam Applicants Must Obtain FCC Registration Number before Taking Examination:

As of May 20th, 2021, the FCC now requires that all examination applicants must provide an FCC Registration Number or FRN to the Volunteer Examiners at the testing site before taking the actual examination. Here's link to an ARRL article regarding this rule change:

<http://www.arrl.org/news/first-time-exam-applicants-must-obtain-fcc-registration-number-before-taking-exam>

Propagation News

Here are some links dedicated to propagation conditions, space weather, sunspot cycle information and all things related to solar conditions:

DX.QSI Propagation:

A simple, straightforward website for propagation conditions that is regularly updated:

<https://dx.qsl.net/propagation/>

Radio Society of Great Britain: What's New and Propagation Now:

A great resource from the UK version of the ARRL regarding solar activity and propagation:

<https://rsgb.org/main/technical/propagation/whats-new-propagation-now/>

SunSpotWatch.com:

A good general interest site for amateur radio operators who follow solar activity:

<http://sunspotwatch.com/>

ARRL:

Here is an update from the ARRL regarding solar flare activity. The article appeared on May 25th, 2021: Weekend Solar Flare Frenzy Could Spark Geomagnetic Storms:

<http://www.arrl.org/news/weekend-solar-flare-frenzy-could-spark-geomagnetic-storms>

DIY Radio References

We have added a few additional links to our list and will continue to do so as we discover more websites related to the Do-It-Yourself movement! QSA-5 is going to keep adding to the original list of online resources, bringing you more resources as we find them. If there is anything you think would be useful to other club members, contact me and I will be happy to include it in this reference section.

Microcontrollers and Single Board Computers: With the advent of the Arduino micro-controller board, the Raspberry Pi (a single board minicomputer) and Texas Instrument's Launchpad (also a single board microcontroller), Amateur Radio enthusiasts can build both accessories, such as antenna tuners, and fully functioning transceivers. I have spent the last year at the University of California studying these devices, learning how to use them and incorporate them into electronic projects. I was able to build two HF receivers based on the Arduino and Raspberry Pi devices. The best news of all is that these devices are inexpensive! I encourage you to check these websites out!

Arduino: The Arduino microcontroller board was the first to popularize these devices. They are inexpensive and can be used for a variety of radio related projects. I will include some links to radio related Arduino projects in the next issue of the QSA-5. Here's a link to the Arduino homepage:

<https://www.arduino.cc/>

Raspberry Pi: Did you every wish you could have a PC small enough to fit into your shirt pocket? Your dream has come true. The Raspberry Pi 4 is a fully functional Quadcore 1.6 GHz computer, about the size of a package of playing cards. It has an

Ethernet jack, two USB 2 ports, two USB 3 ports and two HDMI ports. Next month, I'll post some links to radio related Raspberry Pi projects. Here's a link to their homepage.

<https://www.raspberrypi.org/>

Texas Instruments TI Launchpad: The Launchpad is Texas Instruments answer to the Arduino. The Launchpad is geared more towards advanced projects and is slightly more expensive. However, the Arduino still holds it own against this device. The Arduino also has more in the way of opensource software. Here is a link to the TI Launchpad homepage.

<https://www.ti.com/design-resources/embedded-development/hardware-kits-boards.html>

Tools for electronics: It is a lot easier to build or repair your electronics if you have the right tool. Paperclips and duct tape are not the solution to everything (unless you are McGyver – hopefully, you got the reference). Therefore, we added some links to suppliers of electronics tools.

All Electronics: A one stop electronics shop that has a variety of tools for your repair and building needs:

<https://www.allelectronics.com/category/780/tools-and-supplies/1.html>

Jameco Electronics: A supplier of decent tools at a reasonable price:

<https://www.jameco.com/Jameco/content/tools.html>

Electronic Printed Circuit Boards (PCB): If you design and build projects that require specific circuit boards, you know how difficult it is to find a board that will work for your purposes. Designing a board and then having it made can be expensive. Here is a company that has a large number of radio PCBs you can purchase and then add components to. They also can take your design and fabricate a PCB at a very reasonable cost. The company's name is **PCBway**:

<https://www.pcbway.com/project/>

Electronic Components and Parts: Many of us involved in amateur radio are constantly tinkering with electronics. It seems to be part of our genetic makeup! Here are some links to companies that sell electronic components and parts, starting with San Rafael's own Electronics Plus (Support local business).

Electronics Plus: It's great to have an electronics store close by for those times when you need a part immediately:

<https://www.electronicplus.com/>

Digikey: A good source for DIY and Maker projects as well as parts. They claim to have the world's largest selection of electronic components.

<https://www.digikey.com/>

Jameco: This company is a good source for almost everything, especially mainstay items such as resistors, capacitors, etc.

<https://www.jameco.com/>

Homemade Antennas: Many new ham radio enthusiasts put a great deal of time and effort into researching their first radio. However, they often neglect the most important component to a successful radio experience, the antenna. Even if you have some ham radio experience, antennas can be a daunting subject. Commercially manufactured antennas can be expensive and beyond your budget during these hard financial times. Even if you have the funds available to purchase an antenna, reading through the antenna's specs can be akin to reading some long lost ancient language. A good solution for increasing your knowledge of antennas and radio wave propagation, not to mention cutting the costs down, is to build them yourself. Here are some links to DIY (do it yourself) sites to give you a start:

Antenna building basics:

<https://www.wikihow.com/Build-Several-Easy-Antennas-for-Amateur-Radio>

Good Reference for several antenna types:

<https://www.hamradiosecrets.com/homemade-ham-radio-antennas.html>

A step-by-step guide for building a simple antenna:

<https://geardiary.com/2012/07/21/building-a-simple-ham-radio-antenna-without-soldering/>

Instructions for a VHF/UHF dual band antenna:

<https://www.instructables.com/Quarter-Wave-Dual-Band-VHFUHF-Ham-Radio-Antenna/>

Build an HF dipole antenna:

<https://www.electronics-notes.com/articles/antennas-propagation/dipole-antenna/hf-ham-band-dipole-construction-80-40-20-15-10-meters.php>

Introduction to antennas:

<https://www.onallbands.com/ham-radio-antenna-options-for-home-and-portable-operations/>

Ham Radio QRP Transceiver Kits: With the advent of SDR (Software Defined Radio), building fully functioning ham radios has become a lot easier and extremely inexpensive. While, having fewer bells and whistles, as well as being low power units, many have fully functional touchscreens and cover many of the HF bands:

An easy to build QRP transceiver. No soldering needed to build:

<https://www.hfsignals.com/>

An easy to build, single band CW kit:

<https://qrp-labs.com/>

Offering several kits and finished transceivers:

<https://youkits.com/>

Propagation Websites: Propagation is a key factor in successful radio communications. Here are some links to websites that will help you with all your basic propagation needs:

Real time band conditions:

<https://qrznow.com/real-time-band-conditions/>

VOACAP band conditions:

<https://www.voacap.com/hf/>

ARRL Propagation Page:

<http://www.arrl.org/propagation>

Real Time HF Propagation Prediction:

<https://hamwaves.com/propagation/en/index.html>

Ham Radio Websites of general interest:

Ham Radio News: Here are some sites and articles you may find of interest regarding ham radio.

ARRL News Page, which is a good place to find national news regarding ham radio:

<http://www.arrl.org/news>

QRZ Now. Another good site for ham radio news from around the globe:

<https://qrznow.com/>

The Amateur Radio Newsline. An AP styled news feel page for amateur radio:

<https://www.arnewsline.org/>

Fun With Radio

If you have not tried SDR (Software Defined Radio) out, you really should. I've been playing around with and building SDR receivers for the last 14 months. However, there are many SDR transceivers on the market as well. They are small and an inexpensive alternative to the traditional HF transceiver. What makes the radio so small is its use of processing chips and software to do much of the heavy lifting once done by physical components. The QSA-5 will be doing an in-depth article on the SDR revolution. **Bill AK3Q** (formerly AI6SJ) discussed open and closed source SDR hardware he's been working with, namely the [Hermes-Lite 2](#). Here's a link to a review of this amazing radio:

<https://www.eham.net/reviews/view-product?id=14724>

Marin Amateur Radio Club

Profit and Loss

January - October, 2021

	TOTAL	
	JAN - OCT, 2021	JAN - OCT, 2020 (PY YTD)
Income		
Donations	262.03	1,851.00
Dues	6,676.47	8,221.41
Income from club activities	828.00	
Rent	25,025.00	24,500.00
Sales of Product Income	20.32	43.77
Total Income	\$32,811.82	\$34,616.18
GROSS PROFIT	\$32,811.82	\$34,616.18
Expenses		
Awards	400.00	100.00
Car & Truck	2,664.26	1,406.98
Contractors		270.83
Equipment < \$2,500	322.79	500.00
Food	1,536.00	1,277.00
Garbage	332.08	442.60
Insurance	6,450.00	5,756.75
Job Supplies	87.37	11.00
Legal & Professional Services	25.00	525.00
Other Business Expenses		235.64
Reimbursable Expenses	2,965.04	3,516.07
Rent & Lease	150.00	
Repair & Maintenance	2,281.66	23,584.57
Repairs & Maintenance	813.34	
Repeater	0.00	3,587.41
Taxes & Licenses	4,550.56	7,795.61
Telephone	93.24	759.65
Uncategorized Expense	1,127.50	
Utilities	5,960.17	487.02
VE Session	188.00	
Water	629.85	908.03
Total Expenses	\$30,576.86	\$51,164.16
NET OPERATING INCOME	\$2,234.96	\$ -16,547.98
NET INCOME	\$2,234.96	\$ -16,547.98

Marin Amateur Radio Club

Balance Sheet Comparison

As of October 31, 2021

		TOTAL
	AS OF OCT 31, 2021	AS OF OCT 31, 2020 (PY)
ASSETS		
Current Assets		
Bank Accounts		
B of A Building account - 8795	2,346.63	1,305.67
B of A General account - 4328	12,230.97	7,511.33
CD	25,000.00	25,000.00
Money Market	5,000.00	5,000.00
Public Service	355.76	
Skip Fedanzo	81.84	
Total Bank Accounts	\$45,015.20	\$38,817.00
Total Current Assets	\$45,015.20	\$38,817.00
Fixed Assets		
club house- 27 Shell Rd. MV	58,983.00	58,983.00
Total Fixed Assets	\$58,983.00	\$58,983.00
TOTAL ASSETS	\$103,998.20	\$97,800.00
LIABILITIES AND EQUITY		
Liabilities		
Total Liabilities		
Equity		
Opening Balance Net Assets	124,400.00	124,400.00
Retained Earnings	-22,636.76	-10,052.02
Net Income	2,234.96	-16,547.98
Total Equity	\$103,998.20	\$97,800.00
TOTAL LIABILITIES AND EQUITY	\$103,998.20	\$97,800.00