

Presidents Corner

Egg Nog is back in the supermarket! At least we have one sign this year that feels normal. November and December are when talentless hack writers like me resort to a review of the past year. By any objective measure 2020 has been a year for the record books. We aren't in a world war, so some would rightfully say quit kvetching. With the passing of Sir Sean Connery those of us who grew up with 007, I was six when Dr. No was released, feel the end an era. A sad reminder of 1973 when Sir Roger Moore walked through the iconic gun barrel shot without a hat. We learned to adapt. We loved some of the other 007s and quietly ignored others. The arc of the franchise mirrors our travel from the cold war era to what ever this era will be called.

When I first started working out in the real world, I had to report to my boss that I had discovered a serious bug in one of the programs we used. This bug would require adjusting our financials and a significant amount to my time to rewrite the code in question. I went to my boss and reported that I had found a problem. He told me it was not a problem but a challenge. OK lesson learned; they aren't problems they are challenges. Several years later at the same company and I new boss. I had to report a challenge, that we were being spun off by our parent company and that we would no longer be able to use their mainframe an IBM 360. He told me it was not a challenge, but an opportunity. So, I looked him squarely in the eye and told him he had the opportunity to spend half a million dollars on a new computer system.

Continued on page 2

From the Editor

Ed Essick, K6ELE

Change

I took on the editorship of QSA5 in August 2013 thinking I would do it for a couple of years and then someone else would take over. My Board of Directors position as well as my club treasurer position will end this year. So, I think it is time for me to move on and turn over the editorship of QSA5 to another club member.

It has been an interesting 7+ years editing QSA5. It has allowed me to meet many of you and also report on your contributions to the club. A lot of changes in the club have occurred during this period, both in our Public Service program and the repeater system that supports it.

Our Sunday club house meetings expanded to include kit building projects and the development of the work bench and repair sessions. Our education program has minted a number of new hams and club members.

Thanks to all of you who have supplied me with articles and content for QSA5 to keep our members informed on what you do to make this such a great club.

K6ELE

73

Noobie Net

Please spread the news about the noobie net and please let people know that the meeting ID and password for the net zoom is **6498573599 / noobienet**.

We will hold the net on the MARS simulcast system and on the Central Marin simplex frequency: 147.510, no PL.

It would be much appreciated if a few experienced hams could join the net to help serve as Elmers and to help me by monitoring the simplex frequency.

Stay Safe,
73, Bo Lamb KN6EIF

What's Happening In Radio

New Members

ARRL News

Member Reports

Public Service

Treasurers Report

Minutes

In 2020 we had the opportunity to replace the roof on our club house. We had the opportunity to move out of two of our repeater sites, find at least one new site and reengineer our simulcast system. We had the opportunity to practice our craft as communicators without any of our regular public service events or field day. We had the opportunity to rebuild our VE committee twice within the same year and figure out how to provide testing under pandemic restrictions. We had the opportunity to learn how to hold our meetings virtually rather than face to face and as a result of that I had the opportunity to eat a lot less pizza.

In the face of all the opportunities as a club we seized each and worked our way through it. I could not be more proud of our club, and the way we have all come together. In my December essay I will talk more about those accomplishments.

73 de WA6UDS

What's Happening in Radio

VHF-UHF FT8 Activity Contest, 1700Z-2000Z, Nov 4
ARRL Sweepstakes Contest, CW 2100Z, Nov 7 to 0300Z, Nov 9

VHF-UHF FT8 Activity Contest, 1700Z-2000Z, Nov 11
WAE DX Contest, RTTY 0000Z, Nov 14 to 2359Z, Nov 15

CQ Worldwide DX Contest, CW 0000Z, Nov 28 to 2400Z, Nov 29

See complete contest lineup at

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

Field Day Marin Rod and Gun Club 2015



Club Station 2016



ARRL News

FCC Orders Amateur Access to 3.5 GHz Band to "Sunset"

Despite vigorous and continuing opposition from ARRL and others, the FCC has ordered the "sunsetting" of the 3.3 - 3.5 GHz amateur radio secondary spectrum allocation. The decision allows current amateur activity on the band to continue, "grandfathering" the amateur operations subject to a later decision. The FCC proposed two deadlines for amateur operations to cease on the band. The first would apply to the 3.4 - 3.5 GHz segment, the second to 3.3 - 3.4 GHz.

The FCC action means that amateur radio will lose access to the 3.5 GHz secondary allocation even where commercial operations do not exist. ARRL has argued that amateur operations should be permitted until and unless an actual potential for interference exists.

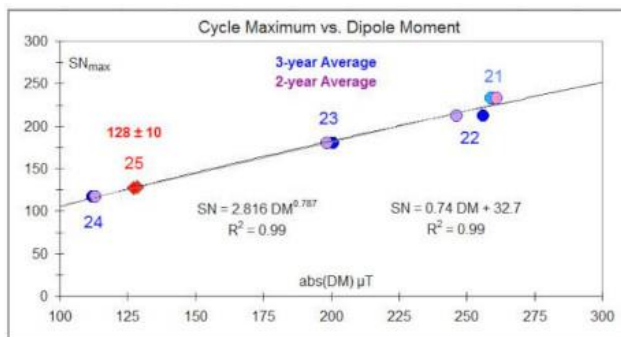
Deletion of the 3.3 - 3.5 GHz secondary amateur allocation will become effective on the effective date of the FCC's order, but amateur radio operation as of that date may continue while the FCC finalizes rules to license spectrum in the 3.45 - 3.55 GHz band and establishes deadlines for amateur operations to cease.

reprinted with Permission ARRL Newsletter 10/08/20

Solar Physicist Predicts a Slightly Better Solar Cycle 25

Solar physicist Leif Svalgaard of the W.W. Hansen Experimental Physics Laboratory at Stanford University [has predicted](#) a maximum sunspot number of 128 ± 10 , slightly better than Solar Cycle 24.

"The overall average is 132 ± 47 (median 124)," he said. "None of these numbers are substantially different, so one could perhaps just go



Graph from Svalgaard's paper: Smoothed monthly maximum sunspot numbers for Solar Cycles 21 - 24 averaged over 3 years before solar minimum (blue symbols) and over 2 years (violet symbols). The prediction for Cycle 25 is shown with red diamonds.

with the 'wisdom of the crowd.' All predictions that we consider have the underlying assumption that the sun has not changed its behavior (its 'spots,' so to speak) on a timescale of a few centuries (the Maunder Minimum may be a possible violation of that assumption), and that there will be no such changes in the near future, in spite of speculative suggestions." Those included one of his own in 2013.

reprinted with Permission ARRL Newsletter 10/08/20

San Francisco Radio Club Event 11/7

We have secured special call sign W6P for this event we call SFRC OTA Trifecta. We will activate Parks on the Air(POTA) , US Islands on the Air (US ISL) and Summits on the Air (SOTA) at the same time. Basically, we will deploy 3 teams of 4 members each to activate simultaneously at three different locations on the island.

For more details about the event and more specifically for a list of the frequencies we will be operating on have a look here:

<https://www.sfarc.org/w6p-sfrc-special-event.html>

Due to COVID-19 we are keeping the team on the island small but we would love to make contact with MARS members that day on 20/40m CW and SSB and VHF, UHF FM

MARS October VE Testing



Critical Mass Meeting

Our next session is the third Sunday in November—**November 15**, a full week+ before Thanksgiving. 10:30am. Hoping you can put it on your calendars. We ran a bit long yesterday, so Steve Toquinto's presentation on the best use of the "**Reverse**" function will be carried over. I have the hosting duty, so **if you have a topic you would like us to cover**, please let me know!

Also, starting this Wednesday, Bo Lamb KN6EIF will initiate his **every-Wednesday-evening at 1930 "Newbie Net."** Tailored for newly-licensed hams, he will take any and all questions and if those of us on the net don't know the answer, we will find out and get back to the group at a future session.

Seven-three,

Michael Fischer K6MLF

Public Service Pre Covid

Dirt Fondo 2016



Ridge to Bridge 2016



Dirt Fondo Net Control 2018



Dipsea Net Control 2018



Breast Cancer Walk Net Control 2018



MALT Net Control 2019



Ship Radio Officer

Ed: The following is from Jan Leja (WB6SPX) and as the radio business changed on land, you can see how things changed at sea as well.

Men who changed communications.

The enclosed picture is of the graduating MREO class at Kings Point Maritime Academy about 20 years ago. These people have graduated from an intensive course in Maritime Engine Electronics held in New York. I wonder if you can hang their picture in your radio room and see if any of those people can be identified. I am standing in the front row on the extreme right. The older gentleman two persons removed sailed solo around the world in his sailboat six times. A giant in the navigation world, but I cannot recall his name. Only a few of these graduates are shown in the group picture. They were an elite group, able to program a tiny laptop or enable a generator that was big enough to light up a small town.

Communications modes.

CW came and went, VHF radio was taken from the hands of the Radio Officer and relinquished to the bridge officers. Shipboard satellite radio came into widespread use and with it the easy availability of weather maps. No more memorizing frequencies or radio station names - the Radio Officer was fast becoming obsolete.

Communication origins and changes.

Maritime Radio Officers were most often recruited from Ham amateurs who initially knew the Morse code. With the explosion of digital electronics, MREO's (Master Radio Electronic Officers) were often called to refresh deck officers in the use of Radars, GPS, satellite telephone, and various communication and navigation equipment normally used aboard deep ocean-going ships. Radio Officers were able to install, repair and align all that gear - sometimes in the span of a few hours while the ship was being discharged at the dock.

Specialized education.

With the advent of containers, more and more electronics was being used both on deck and in the engine room, while the overall number of ship's crew dwindled. In the meantime, ships grew from being able to carry hundreds of containers, to several thousands of containers. As a result, a small handful of Radio Officers were sent to the Kings Point Academy (organized by the American Radio Association, a trades union) to familiarize themselves with engine room electronics and relieve the burden on the reduced engine room crew.

A conundrum.

Today no Merchant ships are flying the American flag, no American ships holding world speed records, no American passenger vessels expounding luxury and grace. Today there are no more Radio Officers, a shame really, as they were willing to sacrifice their life for the protection of others. The Pony Express was in existence for less than a year, and yet the world immediately recognizes their contribution to communication. The poor Radio Officer offering his life just as the Pony Express rider did, is known to just a few, never having established his position in maritime history.



Jan front right

Treasurer's Report

Marin Amateur Radio Club

PROFIT AND LOSS BY MONTH

October 2020

	OCT 2020	TOTAL
Income		
Rent	2,450.00	\$2,450.00
Total Income	\$2,450.00	\$2,450.00
GROSS PROFIT	\$2,450.00	\$2,450.00
Expenses		
Garbage	47.14	\$47.14
Insurance	2,523.50	\$2,523.50
Taxes & Licenses	4,000.56	\$4,000.56
Telephone	186.04	\$186.04
Water	340.46	\$340.46
Total Expenses	\$7,097.70	\$7,097.70
NET OPERATING INCOME	\$ -4,647.70	\$ -4,647.70
NET INCOME	\$ -4,647.70	\$ -4,647.70

Marin Amateur Radio Club

BALANCE SHEET DETAIL

As of October 31, 2020

DATE	TRANSACTION TYPE	NUM	NAME	MEMO/DESCRIPTION	SPLIT	DEBIT	CREDIT	AMOUNT	BALANCE
ASSETS									
B of A Building account - 8795									
									1,295.75
Total for B of A Building account - 8795									
B of A General account - 4328									
									12,068.07
10/05/2020	Deposit		Sharon Miller	Rent		\$2,450.00		2,450.00	14,518.07
10/12/2020	Check	1939	MARIN COUNTY TAX COLLECTOR	Taxes & Licenses			\$4,000.56	-4,000.56	10,517.51
10/12/2020	Check		ATT	Telephone			\$93.02	-93.02	10,424.49
10/12/2020	Check	1938	GREAT AMERICAN INSURANCE	Insurance			\$2,523.50	-2,523.50	7,900.99
10/14/2020	Check		ATT	Telephone			\$93.02	-93.02	7,807.97
10/15/2020	Check		MMWD	Water			\$340.46	-340.46	7,467.51
10/16/2020	Check		Mill Valley Ref	Garbage			\$47.14	-47.14	7,420.37
Total for B of A General account - 4328								\$ -4,647.70	
CD									
									25,000.00
Total for CD									
Money Market									
									5,000.00
Total for Money Market									
club house- 27 Shell Rd. MV									
									58,983.00
Total for club house- 27 Shell Rd. MV									
TOTAL ASSETS								\$ -4,647.70	\$97,899.12
LIABILITIES AND EQUITY									
Equity									
Opening Balance Net Assets									
									124,400.00
Total for Opening Balance Net Assets									
Retained Earnings								\$ -10,035.53	\$ -10,035.53
Net Income								\$ -16,865.35	\$ -16,865.35
Total Equity								\$ -26,700.88	\$97,899.12
Total Liabilities and Equity								\$ -26,700.88	\$97,899.12

MINUTES

GENERAL MEMBERSHIP MEETING

October 2, 2020

Held on: Zoom on line.

1. Call to Order:

The meeting was called to order at 7:32 pm by President Curtis Ardourel.

2. Introductions:

There were a total of 35 members and guests participating. Board members and officers present: Curtis Ardourel WA6UDS, President; Milt Hyams KM6ASI, Secretary; Ed Essick, K6ELE, Treasurer; Anthony (Skip) Fedanzo, KJ6ARL; K6GWE Trustee Doug Slusher, KF6AKU, and W6SG Trustee Mitch Martin WU1Q, members.

Bill Hillendahl, KA6GJV, ARRL SF Section Manager, attended as a guest. He reported on the status of the fires in Sonoma county. He stated that a repeater has been lost. Work continues on putting our hot spots in Sonoma, but the smoke is so dense that satellite observation of the fire has been obscured to the extent that reports are not current. They are still evacuating the Stonebridge area of Santa Rosa and all are hoping for calm winds over the next 48 hours or so. At the request of Rob, NZ6J, Bill offered to see if he can get us copies of "On the Air" magazine to distribute to Critical Mass attendees.

3. New Members:

New member Warren Leiden, KN6KZA, was introduced.

4. Adopt Agenda:

The agenda was adopted, as submitted, without objection.

4. Approve Minutes:

Minutes of the General Meetings of September 4, 2020, as published in QSA-5, were approved without objection. The minutes of the General Membership Meeting of August 7, 2020, were not submitted for approval as they are pending publication in QSA-5.

5. Board Actions:

Curtis reported that the significant actions at the September Board meeting dealt with MARS support of the community in disaster response during the fire season, beyond the actions of RACES, and possible options for support of VOAD.

6. Fun with Ham Radio:

John Kristian, W6JMK, reported he toured Marin last weekend on his motorcycle, working Marin on his radio. On 147.585, he noted significant noise, which the group attributed to a poor ground on a cable TV amplifier.

Steve Toquinto, KB6HOH, reported he completed installation of a packet station in the radio room of the Clubhouse. It can operate as a packet node for Sausalito and San Rafael. He will make it a full mail server by the time he is finished. He would like a UPS to allow orderly shutdown in the event of power outages.

Andrew Raika, KE6HID, announced that the Sonoma repeater conducts a DMR net on Thursday evenings at 6:30PM.

Eric Zeller, AI6SX, announced that the Boy Scouts will hold a Jamboree on the Air on October 16 to 18. He will run the DX event and an FM net and would like participation from the club. Roger, KI6NXX indicated that he has some Scouts that will participate.

Doug, KF6AKU, reported that the club held its mock "Jensie" drill last weekend. We had good participation and fun was had by all. They never got around to using scripts that had been developed for the mock drill. Among the interesting developments was the surprisingly broad coverage of the Barnabe repeater and the fact that Stinson Beach School can now communicate with the simulcast system since the antenna was moved on Mt. Tam.

Rob Rowlands, NZ6J, commented that the old Bolinas Marconi Station has been taken over by Commonwealth. He installed a ham station in the facility consisting of an IC 7300 and TM 71A with appropriate antennas. He found it to be an extraordinarily quiet location. They have no station call sign as of yet, but will get a qualified licensed ham so then can apply for one.

7. Secretary's Report—External Communications:

Correspondence was received from the Elections Department that they do not intend to use the Clubhouse for the November election unless we would like to be an alternate location. Doug indicated we have no such interest. Ed was advised that he has some mail that can be picked up.

8. **Treasurer's Report:**

The financial reports are in the latest QSA-5. He added that we have \$38,317 in our CD account; \$13,000 in our checking account and \$1249 in the building account.

9. **Committee and other Reports:**

Membership : As of morning October, 2nd, we have 131 paid up members, 95% of the year-end membership for 2019. Shortly before leaving for this meeting Curtis received another membership application and check, bringing the total to 132 as of this meeting. Curtis indicated that the Board elections will be in November and we need at least two new candidates for the Board. There are four positions open and Curtis and Mitch will be seeking reelection ,but Marc and Ed are terming out We need the two candidates to fill their positions.

Facilities: Doug reported that he visited the Clubhouse as a part of the packet station installation. He found that there was a small leak from the upstairs bathtub that will have to be dealt with. The fob for the Comm Van was misplaced and the car alarm has proved to be difficult to turn off. Both are being resolved. Ed stated we have all of the bids for the antenna tower base. That project is waiting for Adam to inspect the site for any conflicts with the high voltage transmission line above the Clubhouse.

10. **Old business:** None.

11. **New business:** None.

12. **Good of the order:**

Curtis will extend the Zoom session after the close of the formal meeting so that members can socialize.

It was reported that we had a VE session at the Clubhouse on September 13th. We had 19 take tests and 18 passed. About 1/3 to 1/2 of those taking the tests were from Marin and the remainder were from all around the Bay Area. Steve Fischer, K6ETA, the Club VE Coordinator did an excellent job conducting the testing in the parking lot in front of the parked cars. He had six VEs to assist him.

We were encouraged to take advantage of this opportunity to solicit membership in the club.

The next Board meeting is scheduled for Thursday, November 13, at 7:30 PM. Members wishing to attend the meeting on Zoom should request credentials from Curtis.

13. **Adjournment:** It was **M/S/A** that the meeting be adjourned at 8:31 pm.

Presentation: There was no presentation.

Respectfully submitted by

Milton Hyams, , Secretary, on October 3, 2020.

BOARD OF DIRECTORS MEETING MINUTES

October 15, 2020

Held at: On Zoom on line.

Board members present: Curtis Ardourel WA6UDS, President; Marc Bruvry KF6VNT, Vice President; Ed Essick K6ELE, Treasurer; Milt Hyams KM6ASI, Secretary; Anthony (Skip) Fedanzo KJ6ARL; and K6GWE Trustee Doug Slusher, KF6AKU, members.

Absent: W6SG Trustee Mitch Martin WU1Q, member.

Other attendees: Michael Fischer, Public Service Co-Chair, Larry Bradley, member, who is also President of MDARC. Five other members observed the meeting on-line.

9. **Call to Order:**

The meeting was called to order at 7:33 pm by President Curtis Ardourel.

The agenda was adopted as submitted without objection.

2. **Approve minutes:**

Minutes of the September 10, 2020, board meeting were approved without objection.

3. **Secretary's Report (External Communications):**

There was no external correspondence to report. Milt reported delivering a number of bills and items of bank correspondence to Ed. Based on earlier correspondence from the Elections Department reported last month, Curtis will post a sign on the door of the Clubhouse that the Clubhouse is not a polling place this election.

4. Treasurer's Report:

The current Balance Sheet is as published in QSA-5. He reported balances in the CD account of \$30,765 and \$7000 in the bank. He has paid the property tax and insurance bill as well as the water bill which he noted went up significantly.

5. Membership Chair Report:

Curtis reported that as of October 15th, there are 133 members current for this year, 97% of total paid membership at the end of last year.

6. Education:

There has been no activity on the part of the Education Committee. Curtis will check with Jamie is still interested in setting up VE licensing courses on Zoom.

7. Facilities:

Doug will investigate the upstairs, particularly the bathroom, for possible water leaks.

Doug is to write up the noise symptoms on the simulcast system so Milt can contact a consultant to look at the issues on the Mt Tam repeater.

Doug reported that Mitch fixed the pesky alarm on the comm van by removing the alarm module. They have found the lost key fob and Doug has purchased two more. The fobs will be reprogramed and the alarm module will be left out of the truck for the time being to insure that it can be used with a key without setting off the alarm system.

8. Public Service:

Public Service Co-Chair Michael Fischer reported that the Public Service season is over. In the absence of public service events this year, two mock drills that were conducted attracted between 30 and 35 operators. They are now working on filling the public service schedule for 2021 which will be contingent on relief from the COVID restrictions. Management of the Public Service Committee has been expanded to include Stan and Pam Witherspoon who will eventually take over the Committee with Rob Rowlands on Michael's retirement from the position.

Michael has been considering holding the 2021 Public Service "Luncheon" on Zoom if the social distancing restrictions have not lifted by March. A proposal will be submitted as the time of the event gets closer.

Milt will be hosting the Marin Critical Mass training session this Sunday. Also we will be establishing a beginners net starting next Wednesday (October 21) at 1930 to be hosted by Bo Lamb, KN6TIF. The objective of this net will be to get brand new hams on the air, introduce themselves, and to provide them with instruction on how to use their radios and the repeater system.

9. Old business:

a. *Tower.* We have been unable to make an appointment with Adam McLaughlin to survey the proposed antenna tower site for possible conflicts with the PG&E transmission line that crosses the club property. Ed will go to the County Building Department to look into the issue from their perspective and to obtain a permit. He will submit the proposal for the antenna tower base from Van Midde Concrete to the Board for approval at the next Board meeting.

b. *Ward Peak Repeater.* The repeater removed from Ward Peak is at the Clubhouse and mounted on a furniture dolly so it can be tested and serviced. Doug scoped the controller, but did not have the cover for the repeater transceivers themselves which are needed to test and program them. Member Larry Bradley, KK6QPE, who is also President of MDARC, suggested we contact Jim Siemons of MDARC to see if they may have a cover we can borrow.

c. *MARS and VOAD:* Skip reported a group from RACES has proposed an independent radio amateur disaster relief organization that will have as one of its principal missions the support of VOAD member organizations. Skip is leading that effort. A pilot project, consisting of 10 amateur radio operators, will be established to support 8 NGO disaster relief organizations to test the concept. Their mission will be to provide assistance to the organizations establishing their own radio communication networks and to provide communication links for those organizations up the chain ultimately to the EOC. If the concept works, it will come under the auspices of Marin County's Volunteer Coordinator Program and will be formally presented to the Board of Supervisors for approval. As a formal unit these amateur radio operators will be eligible for disaster worker status should they be mobilized in the event of an emergency.

d. *Christmas Dinner:* There will be no formal Club Christmas dinner this year. Instead there will be the regular December Monthly Membership Meeting to be conducted on Zoom.

e. *Nominating Committee:* Doug, Chair of the Nominating Committee reported the slate of nominees for the four positions on the MARS Board of Directors up for election this year. He reported that Mitch Martin had originally expressed interest in running for reelection, but withdrew his name for pressing personal reasons. He will continue to meet with the Board when required in his capacity as Trustee of W6SG. The slate of nominees is: Curtis Ardourel (incumbent seeking reelection), Bruce Bartel, N6VLB, Mark Klein, KM6AOW, Jim Saltzgaber, KM6WWY, and Brian Cooley, K6EZX. These candidates will be asked to introduce themselves at the November General Membership Meeting.

10. New business:

a. *Membership Outreach and Recruiting:* A number of new hams suggested to Curtis that he develop a brochure to circulate at VE Sessions recruiting the new hams as members of MARS. Curtis indicated that we will prepare such a brochure. He will also provide a follow-up e-mail to each individual who passed the exam. He would also like to provide mentor outreach to each new ham member to assist their emersion into the hobby of amateur radio.

b. *Life Membership:* Curtis indicated that there has been some interest in a paid life membership category of membership. He pointed out that this would be different from the existing Life Membership category in the By-Laws which is for recognition of members that have provided outstanding service to the club. This new category would be a paid-up permanent membership for members who paid a lump sum dues payment up front. The payment required by other organizations, such as ARRL and SFRC, calculate the amount at varying multiples of the annual dues based upon age, and require approval of the nominee by the Board of Directors. Curtis indicated that he will put this matter on the agenda for the next General Membership Meeting to get the sentiment of membership for such a proposal.

11. Good of the order:

Milt reported that he was approached by member Fran Strohmeyer, WA6TFP, about reopening the Clubhouse for "Bible Study" sessions on Sundays. He indicated that there could be a maximum of six people and would be supervised by a Board member or a Trustee for COVID compliance. It was also proposed that such a meeting be limited to one Sunday per month on a trial basis. Curtis indicated that he will also raise this issue at the next regular General Membership Meeting.

Larry Bradley, President of MDARC, stated that licensing classes offered by MDARC were open to any MARS members or candidates who might be interested. He would have his marketing person get in touch with us if we are interested. Their classes follow the ARRL manuals, with some departure in the order of subjects, and provide Elmers to answer questions and assist individual students. Curtis will send those interested to MDARC for more information.

Next General Membership Meeting will November 6, 2020.
Next Board of Directors Meeting will be November 12, 2020.

12. Adjournment:

Meeting adjourned at 9:15 pm

Respectfully submitted by

Milton Hyams

Secretary, on October 20, 2020

Marin Amateur Radio Society W6SG.NET, membership@w6sg.net General Membership Meeting is held on the first Friday of each month 0 at Alto District Clubhouse at 27 Shell Road in Mill Valley, starting at 7:30 PM. Come a little early for pizza or whatever. From highway 101, head west toward Mill Valley on E. Blithedale. Turn right at the first stop light. Stay right at next stop sign, then turn left at next corner, Shell Road. We are in a two-story building, second from the corner on the left directly under the power lines. **Online Zoom only until further notice.**

Business/Board Meeting meets at the Alto District Clubhouse in Mill Valley on the second Thursday at 7:30 PM. Members are encouraged to attend. **Online Zoom only until further notice.**

Sunday morning informal meeting meets every Sunday morning at the Alto District Clubhouse in Mill Valley starting around 8am and runs to about 11am. Sometimes we even talk about radio. **Suspended until further notice due to covid.**

The Sunday Emergency nets. The K6GWE emergency VHF net check-in is at 10:15 am on 147.700 (-pl 203.5). This is a directed net and the net control station may operate at the club house or at a member location. Members on the net check-in list that do not check in for three consecutive weeks are removed from the list until they reestablish check-in. Any member can sign up to act as the net control station. See the club website for signup instructions. The W6SG emergency HF net check-in is at 9 am on 3.915 Mh.

Marin Amateur Radio Society Officers and Board Members:	
President Curtis Ardourel, WA6UDS	Public Service Event Coordinators Michael Fischer, K6MKLF Rob Rowlands, NZ6J
Vice President Mitch Martin, WU1Q	Membership Curtis Ardourel, WA6UDS
Secretary Milt Hyams, KM6ASI	Editor of QSA5 Ed Essick, K6ELE e.essick@comcast.net
Treasurer: Ed Essick, K6ELE	ARRL San Francisco Section Manager Bill Hillendahl KH6GJV@ARRL.ORG
Board Members Curtis Ardourel, WA6UDS, 510-290-6069 Milt Hyams, KM6ASI, 415453-3867 Skip Fedanzo, KJ6ARL, 415-924-0584 Marc Bruvry, KF6VNT 492-9292 Ed Essick, K6ELE, 415-456-1715 Mitch Martin, WU1Q Doug Slusher, KF6AKU	WEBMASTER Curtis Ardourel, WA6UDS
Other Positions:	HF Sunday Net Control Mark Bruvry, KF6VNT
Education Chair	VHF Sunday Net Control Steve Toquinto, KB6HOH
VE Liaison Steve Fischer, K6ETA	
Building Manager Doug Slusher	
Trustee for W6SG Mitch Martin, WU1Q	
Trustee for K6GWE Doug Slusher KF6AKU	
Sunday Emergency Nets Mark Bruvry	
DX Representative of ARRL Jerry Foster WA6BXV 892-3829	