
QSA-5

The Marin Amateur Radio Society Monthly Newsletter

Founded 1933

September 2017

Presidents Corner

Another busy month!

Thank you to everyone who helped out with this year's picnic and a special thanks to Cal Anber and Doug Slusher for making it all happen. It was a beautiful afternoon and a perfect day for a picnic. I hope that all that attended had a great time. To everyone who was not able to attend this year, I hope to see you next year.

This month is packed with events. In addition to our ongoing tech class on Wednesday evenings (thank you Kris Backenstose, N5HIT, and everyone who has volunteered to assist), we have the California QSO Party, MCBC's Jensei Gran Fondo, Breast Cancer Prevention Partners Hike, Jamboree-on-the-Air, Pacificon, CQ World Wide DX Contest, Dolphin Escape From Alcatraz and let's not forget Halloween!

Jamboree-on-the-Air, or JOTA, is a special event for us this year so please consider helping out. We are holding the event in conjunction with Venture Crew 333 on Saturday, October 21st at Trinity Lutheran Church, 333 Woodland Avenue, San Rafael. In Addition they are planning a dry run on the 8th. If you are interested please let Doug Slusher or myself know.

Also this month, on Thursday Oct, 5th, there is a Merit Badge Counselor training so hopefully by the time you read this I will have attended the class. As merit badge counselors we can assist scouts to obtain their Radio Merit Badge and this will hopefully encourage some of the scouts to also become Amateur Radio operators and join our ranks.

Enjoy all the activities this month!

73

Tom Soskin, W6MTS

From the Editor

Ed Essick, K6ELE

California QSO Party

This weekend is the California QSO Party (CQP) sponsored by the Northern California Contest Club (NCCC). The NCCC has over 500 members from all over Northern California and parts of Nevada who like to participate in radio contesting. NCCC member stations range from what are often called "super stations" with 100ft plus towers to those who use simple wire antennas. Although NCCC sponsors the contest, hams from all over the US participate. For this contest, any California station is sought out for a contact. This means if you participate, you are the DX!

I have operated in this contest for the past four years as the contest gives me a chance to improve my operating skill, test my radio equipment, and have fun. Some enter the contest by going to a county in California that might be underrepresented by other operators. Here in Marin this year three of us have signed up to operate and all of the other California counties will be represented.

You do not have to sign up to make some, just get on the air as stations from all over the US will be looking to make California contacts.

What's Happening in Radio

On the Air

ARRL News

Public Service

Member Reports

Pampanito Report

Membership Meeting Minutes

Board Minutes

On the Air Contest Calendar

Oceania DX Contest, Phone, 0800Z, Oct 7 to 0800Z, Oct 8

California QSO Party, 1600Z, Oct 7 to 2200Z, Oct 8

Arizona QSO Party, 1600Z, Oct 14 to 0600Z, Oct 15 and 1400Z-2359Z, Oct 15

JARTS WW RTTY Contest, 0000Z, Oct 21 to 2400Z, Oct 22

New York QSO Party 1400Z, Oct 21 to 0200Z, Oct 22

CQ Worldwide DX Contest, SSB 0000Z, Oct 28 to 2400Z, Oct 29

See WA7BNM Contest Calendar for all contests

<http://www.hornucopia.com/contestcal/contestcal.html>

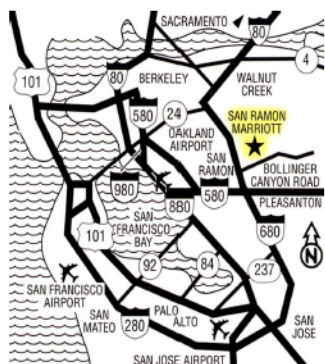
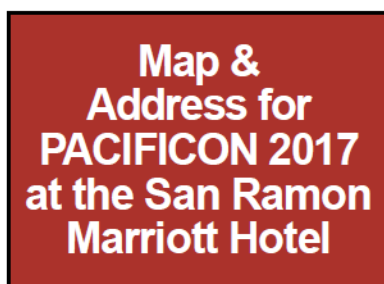
What's Happening in Radio



PACIFICON 2017

**San Ramon Marriott
2600 Bishop Drive
San Ramon CA 94583**

**Friday through Sunday
Oct. 20-22, 2017**



**San Ramon Marriott Hotel
2600 Bishop Drive
San Ramon CA 94583
1-925-867-9200**

Take highway 680 to Bollinger Canyon Rd. exit in San Ramon. Go east on Bollinger Canyon Rd. First left onto Sunset Dr. Second left onto Bishop Dr. About 1/4 mile to Hotel on left. *Parking is limited. See instructions on website.*

www.PACIFICON.org
EVENTS-SCHEDULES-REGISTRATION



PACIFICON 2017

P.O. Box 31372
Walnut Creek, CA 94598
E-mail: info@pacificon.org
(925) 288-1730

Talk-in: 147.060 + (PL 100Hz) East Bay
145.390 - (PL 100Hz) South Bay
See website for updates

www.PACIFICON.org
EVENTS-SCHEDULES-REGISTRATION

The American Radio Relay League Pacific Division



**The Ham Radio Convention
October 20, 21 & 22, 2017**

2017 EVENTS INCLUDE:

All Day Friday Antenna Seminar
Outstanding Technical & EmComm Forums
Ham Radio 101 & 201 Seminars
Latest Ham Radio Equipment in Vendor Hall
Special Youth and Adult Kit Building
Saturday Breakfast with Gordon West
Saturday Banquet with Special Speakers
Special Events Radio Station - Get On The Air
One Day Technician License Prep Class
Ham License Exams - Tech, General, Extra
Great Sunday Swap Meet

TAKES PLACE AT THE:

**MARRIOTT
San Ramon**

ADMISSION: \$25 IN ADVANCE
(Some events are additional - see Registration Form)

An ARRL Pacific Division Convention- Produced by the
Mt. Diablo Amateur Radio Club (MDARC)

www.PACIFICON.org
EVENTS-SCHEDULES-REGISTRATION

October 20-22 PACIFICON Amateur Radio Convention at the San Ramon Marriott Hotel, San Ramon CA



Saturday Breakfast with Gordon West
Saturday Banquet with Special Speakers
Wouff Hong Initiation



Latest Ham Radio Equipment for Sale
One Day Technician License Prep Class
Ham License Testing





ARRL PACIFIC DIVISION HAM RADIO CONVENTION

Featuring Youth & Education

Produced by the Mt. Diablo Amateur Radio Club

October 20, 21 & 22, 2017
San Ramon Marriott
2600 Bishop Drive
San Ramon, California 94583

GENERAL ADMISSION:
\$25 IN ADVANCE - FOR ALL 3 DAYS!

Tickets at the door will cost \$30; 17 years old & under are free; College Students with valid student ID (25 & under): \$5
*** Some events are additional ***

If you need hotel accommodations either call Marriott Hotel Reservations at 925-867-9200 by Sept 20, 2017 (per availability) to ask for the Special Pacificon rate of \$138/night, or reserve your room on-line at www.pacificon.org

Go to the Pacificon Website for
Events - Schedules - Registration

WWW.PACIFICON.ORG

*** Events are subject to change – check website ***



Outstanding Technical Forums
Sunday Swap Meet
Kit Building
Ham Radio 101 & 201



All Day Friday Antenna Seminar
Ham Instructor Academy
Special Events Station Get-On-The-Air



PACIFICON Advance Registration Information
The deadline for hotel room advance reservations is September 20, 2017 (per availability). The deadline for receiving all advance convention registration is October 8, 2017. Purchase registration for convention on-line at www.pacificon.org, or by using the form below. If using form below, please enclose check or money order for full amount. Pick up registration packet at the PACIFICON Will-Call Desk on arrival.

Advance Registration Form
PACIFICON 2017, October 20-22, 2017
Please print name and address
Name _____
Call Sign (if you have one) _____
Address _____
City _____ State _____ Zip _____
Phone _____
Email _____

*** If you are buying registration for others, please attach a sheet with their names & call signs*

PACIFICON admission @ \$25 = \$ _____
\$30.00 at the door; 17 & under are free; College students with current student ID (max 25 yrs): \$5

Antenna Seminar @ \$20 = \$ _____
(Friday only; digital copies with seminar info will be made available to attendees)

Breakfast with Gordo @ \$23 = \$ _____

Banquet (Saturday eve) - How many?
 Rib Eye Steak @ \$56 = \$ _____
 Chicken @ \$56 = \$ _____
 Salmon @ \$56 = \$ _____
 Vegetarian @ \$56 = \$ _____

TOTAL= \$ _____

PACIFICON admission fee does not include
Antenna Seminar, Banquet, Breakfast with Gordo, or Ham License Exam fee.

For registration questions email or call:
registration@pacificon.org; 925-778-8977

Make check payable to: PACIFICON
Mail To: PACIFICON
PO Box 31372, Walnut Creek, CA 94598

ARRL News

Force of 50" Steps Up to Assist Hurricane-Ravaged Puerto Rico

Members of the Amateur Radio community have volunteered to assist in the ongoing recovery from Hurricane Maria, which devastated Puerto Rico and Dominica and, to a lesser extent, the US Virgin Islands. This week, 50 of the most accomplished US radio amateurs responded within 24 hours to a call from the American Red Cross (ARC) to deploy to Puerto Rico and provide emergency communications assistance there. At the ARC's request, ARRL rallied the US Amateur Radio community to provide up to 25 two-person teams of highly qualified hams. ARRL CEO Tom Gallagher, NY2RF, said that more than 350 answered the call, from nearly every state.

"This generous outpouring of response represents the finest qualities of the Amateur Radio community," he said. "These individuals are dropping whatever they are doing now, heading off to an extended hardship-duty assignment, and offering their special talents to Americans who have been cut off from their families, living amid widespread destruction and without electrical power since Hurricane Maria struck the Caribbean region last week."

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Continued on Page 4

The group's principal mission will be to move health-and-welfare information from the island back to the US mainland, where that data will be entered in the Red Cross [Safe and Well](#) system. The Salvation Army Team Emergency Radio Network ([SATERN](#)) has been asked to assist these operators when they check in with tactical, health-and-welfare (H&W), and Safe and Well messages.

SATERN and other active nets are not accepting incoming H&W inquiries. The Caribbean Emergency and Weather Net (CEWN) is taking incoming H&W inquiries via e-mail [for Dominica](#). The Puerto Rico Federal Affairs Administration (PRFAA) is taking inquiries (only one per sender) via e-mail [for Puerto Rico](#). Inquiries should include the full name and location of both the sender and the individual(s) being sought and the sender's e-mail address.

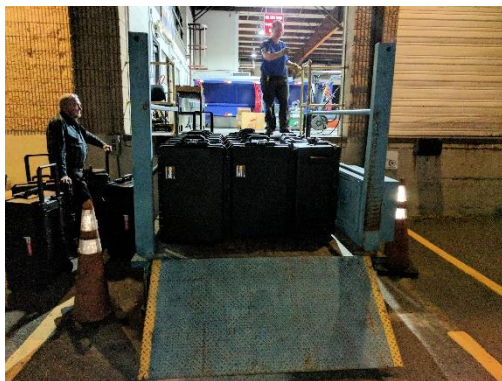
The group will be in Puerto Rico for up to 3 weeks. ARRL has equipped each team with an HF transceiver, software, a dipole antenna, a power supply and all connecting cables, fitted in a rugged waterproof container. In an unprecedented and crucial move, the Federal Emergency Management Agency (FEMA) agreed to help get the Ham Aid gear to Puerto Rico.

The League also is sending two VHF repeaters, a dozen hand-held transceivers, five mobile radios, what Gallagher described as "5 cubic feet of batteries," a number of small 2-kW portable generators, and solar-powered battery chargers. The hams and their equipment will be sent to Red Cross shelters extending from San Juan to the western end of the island.

In addition, ARRL has committed to purchasing up to \$50,000 worth of new Ham Aid gear for this and for future emergencies.



Denis Santiago, WP4KJJ (right), and Raul Gonzalez, KP4RGD, organized the communication network in Puerto Rico and operate the station at American Red Cross's temporary San Juan headquarters, "with a great number of hams who left their families to help Puerto Rico to recover," ARRL Puerto Rico Section Manager Oscar Resto, KP4RF, told ARRL.



Ham Aid kits are packed and ready for shipping at ARRL Headquarters.

ARRL's Emergency Preparedness Manager Mike Corey, KI1U, said this was the first time in the nearly 75-year relationship between ARRL and the ARC that such a request for assistance had been made. "Hurricane Maria has devastated the island's communications infrastructure," Corey said. "Without electricity and telephone, and with most of the cell sites out of service, millions of Americans are cut off from communicating. Shelters are unable to reach local emergency services. And, people cannot check on the welfare of their loved ones. The situation is dire."

Reprinted with Permission from the ARRL Letter 9/28/17

Public Service

Public Service Report Dirt Fondo August 27th

1. Nature of Activity: Special exercise, Public-Service Event
- > 2. Activity Description: Provided emergency & routine communications for The Dirt Fondo, A mountain bike event, that is run by and benefits the Marin County Bicycle Coalition. Approximately 350 participants 100 volunteers were involved.>
- > 3. Places or areas involved: Trails in Marin County, California >
- > 4. Number of amateurs participating: 15
5. Event start date/time: August 27, 2017 05:30 hrs
- > 6. Event end date/time: August 27, 2017 16:30 hrs
- > 7. Duration of event (hours): 11 hours
- > 8. Total person-hours: 91
- > 9. Number of repeaters used: 2
- > 10. Estimated person-power cost (91 x \$19): \$1,729.00
- > 11. Estimated cost of equipment used: \$10,000.00
- > 12. Total estimated cost of service (10+11): \$11,729.00
- > 13. Nets and/or frequencies used: 147.330 K6GWE, 443.250 K6GWE, 147.555 S, 144.390 APRS
- > 14. Number of messages handled: est. 100
- > 15. Names of agencies receiving communications support: Marin County Bicycle Coalition, Golden Gate National Recreation Area, California State Parks.
- > 16. Call signs of major participants: KA6BQF, K6MLF, AG6QR, KF6AKU, KG6IAC, KK6QPE, K6BPS, KI6MZX, NZ6J, WB6SPX, KM6DVH, KJ6ARL, N6ABR, AA6SF
- > 17. Other comments: No significant incidents occurred on this event.
- > Amateur Radio organizations providing service: Marin Amateur Radio Society,
- > Location: Marin County, CA
- > Submitted by:
- > Robert Randy Jenkins KA6BQF
- > 912 Jones Street, Berkeley, CA 94710

WSJT-X FT8 MODE

Ed Essick, K6ELE

Dr. Joe Taylor, K1JT, pioneered weak signal communication (WSC) for Earth-Moon-Earth (EME) and meteor scatter communication on VHF and UHF starting in 2001. He created a series of modes including FSK441, JT4, JT9, and JT65. Dr. Taylor is an emeritus Professor of Astrophysics at Princeton University and a physics Nobel Laureate. He continues today to improve on WSC with the introduction of the FT8 mode.

This month we will take a look at how the FT8 mode works. This is a digital mode that sends a standard message that includes a series tones that use a very accurate time standard. The bandwidth of each message is 47Hz and transmit and receive time is 15 seconds. It is much faster than JT65, which many hams have said is “like watching paint dry” due to the time needed to complete a contact. FT8 can decode signals that are way below the audible sound range in about 1/4 of the time of a JT65 contact.

For this reason FT8 has quickly become one of the most widely used digital modes for ham operators today. FT8 was released in test mode, called Beta-Test, in July 2017. It is easy to download, install, and operate. It does require a time standard of ± 1 second as the signals need this timing for transmission. The standard time used on PC's is not suitable for FT8 timing and instead a time standard such as Meinberg NTP or Dimension 4 time programs is recommended. This is the link to the WST-X User Guide that includes the instructions for downloading FT8 and the timing software.

<https://physics.princeton.edu/pulsar/k1jt/wsjsx-doc/wsjsx-main-1.7.0.html>

Making a Contact

The FT8 screen is shown below in Figure 1. The left side of the screen shows Band Activity. The stations shaded green are calling CQ. On the right side of the screen the RX or receiving frequency is shown. I called several stations starting with EA8ZT. He did not answer, so I called PY2FUL (shown as 1 on the Rx Frequency screen) with my call and grid square CM87. FT8 repeated my call to PY2FUL several times, then he responded (shown as 2 on the Rx Frequency screen) with his signal report of -15dB. I responded with a received signal report of R-06 or -06dB (shown as 3 on the Rx Frequency screen). PY2FUL sends RRR (shown as 4 on the Rx Frequency screen). I then sent 73 (shown as 5 on the Rx Frequency screen). PY2FUL sends 73 (shown as 6 on the Rx Frequency screen).

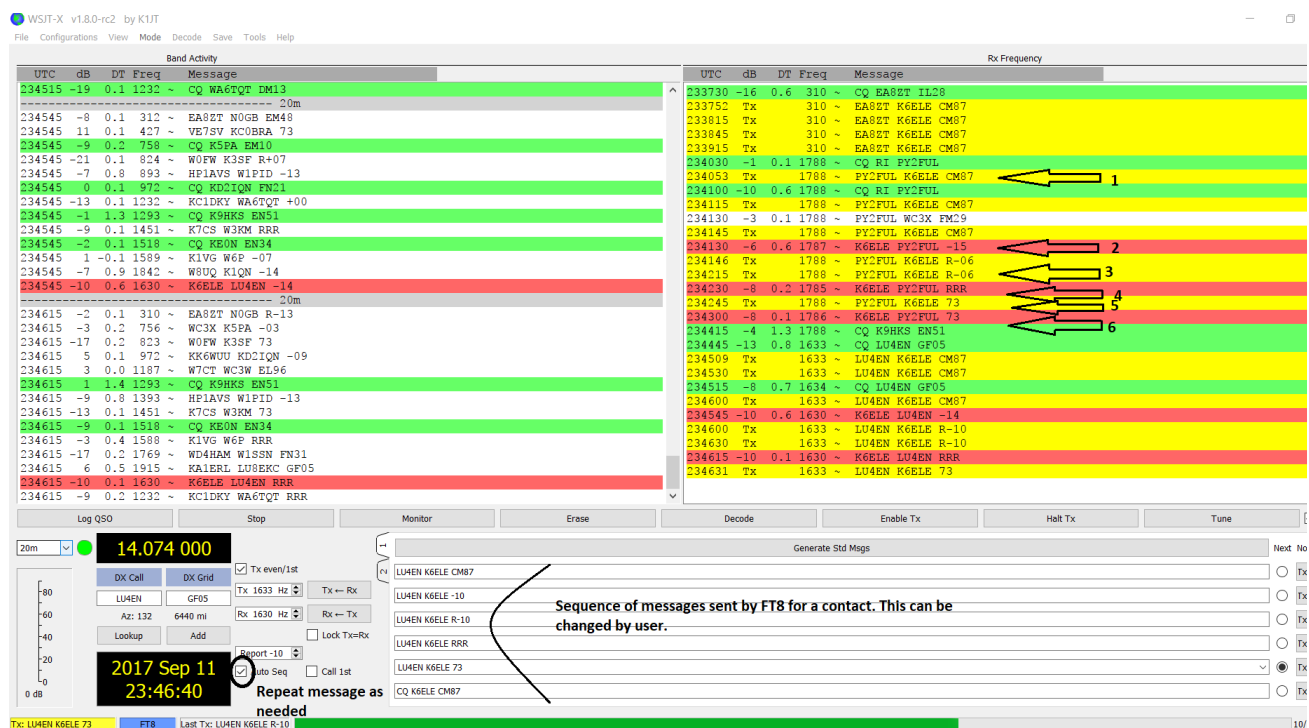


Figure 1 FT8 main screen

Logging the Contact

One of the features of FT8 is that it sends the series of messages shown on the main screen automatically in the sequence shown. Once the operator has pressed the Enable Tx button, the process of the contact is all handled by FT8 or until you see that there is no response from the called station and you press Halt Tx. FT8 will shift the frequency as needed to make the contact. So when I called PY2FUL, the frequency was shown as 1788. When PY2FUL responded it was 1787. At the end of the contact, FT8 pops up the Log screen shown in Figure 2 and you just click the OK button to log the contact. FT8 can be setup to send log entries to the ARRL Logbook of the World if the user wants.

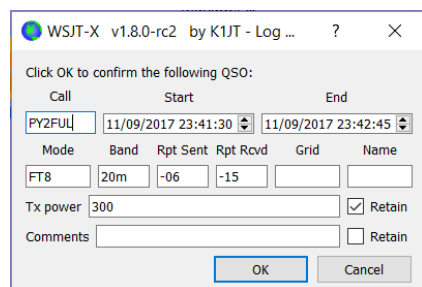


Figure 2 Contact logged in FT8

Not shown in the example in Figure 1 is the waterfall display. The waterfall displays the FT8 signals your receiver is copying. The waterfall could be useful for what is called split operation that is when the station calling CQ is rare and will be answered by many stations wanting to work them. For example in Figure 3 RI1ANO from the South Shetland Islands is on 30 meters working split using up 50Hz.

10136.0	RI1ANO	21:17 02 Oct	tnx qso FT-8 50Hz up	South Shetland Islands
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Figure 3 Split FT 8 operation

The waterfall shown in Figure 4 displays all of the signals in the receiver passband, so if the receiver is set with the 1.5Khz filter, it would display that width in the waterfall.

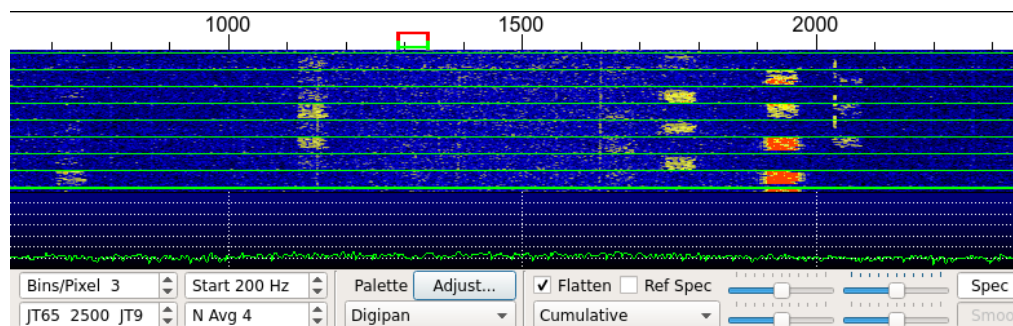


Figure 4 FT8 Waterfall with signals shown.

Keep in mind that FT8 will change as program bugs are found and features are added. So if you plan to use it, check the WSTJ website often for updates.

California QSO Party

2017 CQP



CQP & improving your operating skills

From an operating point of view, what do Public Service, chasing DX or working contests have in common?

They all require accurate copy of information under stress – whether the stress of the moment, the adrenaline rush of rare DX or contest pile up, you have to accurately copy and relay information.

Entering a contest either casually to give some points or as a serious effort, Contesting provides a great learning experience for information copy “under fire”.

The first weekend of October (October 7-8 this year) sees the 52nd running of the California QSO Party – a great opportunity for stations in California because everyone else HAS TO WORK US!

We are the DX!

Whether you are a “big gun” with stacked yagis and 1500 watts, or a “little pistol” with 100 watts to a vertical or a wire antenna, everyone else in the world wants to work YOU to pick up one of the 58 counties in our state.

It’s a lot of fun being on the receiving end of a pile up or searching & pouncing for other states and countries.

For California stations the object of the contest is to work as many stations as possible on SSB and CW. You can work the same station on each band and each mode for score credit. Every US state and Canadian province you work counts as a multiplier – 58 total for us just like the number of counties in California.

Want to be really on the end of a pile up? Plan a “CA Expedition” to one of the rarer counties in California and the rest of the world will beat a path to your log!

Low Power, High Power? CW or SSB? CQP is a fun contest for all.

CQP is sponsored by the Northern California Contest Club. A group of NCCC volunteers help with promotion, planning county expeditions and processing all the logs to score the contest.

The last 10 years have seen a great increase in the number of logs submitted from the US, the DX world and (of course!) from California.

Last year we received 970 logs representing a total of 250,000 QSOs.

Every station that submits a log is eligible for an achievement certificate and there are several operating categories where the leader receives a wooden CQP plaque for proud display on the shack wall.

Three categories are designed to encourage operation in contests; YL award, Youth (< 18) award, California New Contester

Pampanito Report

The Dedicated Day of Operation (DDO) took place this last Saturday, September 9, 2017 aboard the USS Pampanito, SS-383. Our XO, Jerry Foster, WA6BXV came aboard and fired up our station, NJ6VT, starting at 0945 hours. The radio propagation conditions were very poor because of a series of solar flares, but in spite of poor conditions, Jerry managed to make several QSO's on 40 meter CW and also check into the "Noon Time Net" on 7283.5 kc. Quite a number of visitors aboard the boat from many countries kept Jerry busy! Jerry secured the boat's station, NJ6VT, at 1600 hours. I want to thank Jerry, WA6BXV, for taking the DDO!!

Our next scheduled DDO will be on Saturday, October 14th. Please let me know if you can help out. Running the station as a single RO is not easy and we could use some help.

73,

Den Regan, K6ZJU
CO Pampanito A.R.C. NJ6VT
USS Pampanito, SS-383
Pier 45, Shed "A"
San Francisco



General Meeting Minutes

September 1, 2017

7:30 PM **President Tom Soskin gavels the meeting to order.** President Soskin begins with introductions.

7:33 PM Agenda is adopted

7:34 PM Approve the minutes as published in the QSA-5

7:34 PM The President's minute. President Soskin asks that members or attendees do not simply take radio equipment (much has been donated). New members are listed

7:36 PM No treasurer's report. Secretary's report.

7:36 PM Committee Reports follow:

7:36 PM *Membership.* Curtis Ardourel is not here. *Education.* Kris is not here. President Soskin presents the Technician class that begins at the Alto clubhouse next week. Tom's whole family is signed up for the class. There have been some email problems with the sign up process. One has to respond to the email in a "cryptic" way, which is unfortunate. Hopefully, Kris has fixed the sign up process. Currently, there are 13 people signed up for the Technician class. The class culminates in a Technician exam on November 1, 2017. *Club Station and Facilities.* Trustee Doug Slusher speaks The 147.330 has to change the PL tones. Encode and Decode will benefit from PL changes and there will be much less cross-talk and interference. Trustee Slusher is ready to mount the Yaesu digital repeater. *Public Service.* The ZBC Dipsea race is on September 23, 2017. Net Control for that race will be at the Old Mill Park. Randy Jenkins thanks all participants who have helped. *VE.* The next Volunteer Examination session is on November 1, 2017. Tom Soskin recounts a fellow who took the test and failed, and then took it again and "aced" it. He was nervous on the first session. President Soskin was very happy that he passed. The gentleman had interesting family and ham radio stories and is excited to join the hobby. *Club Picnic.* The MARS club picnic is on September 30, 2017 at Piper Park in Larkspur, CA. Please come to the picnic for a fun time. *Christmas Party.* The party is on December 6, 2017. Please come for good food and prizes.

7:49 PM New Business. Trustee Doug Slusher answers questions about the Jamboree on the Air event, which is a collaboration between MARS operators and the Boy Scouts. This is called JOTA. The club is asking for elmers to assist (please read the QSA-5). About 1 million Boy Scouts participate in JOTA and it is an exciting service opportunity.

7:51 PM **The meeting is gaveled closed with a motion, second, and a vote.**

7:53 PM Richard Dillman W6AWO makes a presentation about emergency communication. He works with the West Marin Disaster Council. He has worked with the KPH radio station at Point Reyes California. He has been the broadcast engineer at KWMR. It is an excellent presentation.

Board of Directors Meeting

September 14, 2017

7:35 PM President Tom Soskin gavel the meeting to order.

7:36 PM Review of the meeting agenda. Vice-President Kris Backenstose asks about a new projector. Are there other things for the agenda? Trustee Doug Slusher asks if Rob Rowland's request for APRS devices in the the agenda? Yes it is.

7:38 PM. The agenda is approved.

7:39 PM. The minutes in QSA-5 are approved by a motion, second, and vote.

7:39 PM. President's minute. President Soskin is looking for family members in Florida.

7:40 PM. Treasurer's report. Read the printed report provided by Dave Hodgson. Donations have improved. These donations come from members who add money to their dues payments and also put money in the jar. Trustee Slusher speaks again about the final cost of the paving. He has made numerous inquiries to the company. He is just going to pay them and say that's it.

7:43 PM. *Membership.* Curtis Ardourel speaks about the raise in dues. Should he increase the dues in October 2017 to 30\$ or in December? People who pay in October for a membership renewal will be 30\$ on October 1, 2017 by the consensus of the Board. Trustee Slusher and Members Ardourel agree that most members paid their dues in a timely fashion in 2017. Curtis only has to change the club password on the website with one manipulation and he will mail out the new password to all members on the QSA-5 list. The question is raised about multi-year membership. Curtis argues for a 5-year discounted membership. 10% or 15%? *Education.* Kris Backenstose says that there are 15 students in the Technician class. President Tom Soskin asks for a roster, and Kris will provide the list with FRN numbers. There is a discussion about what information should be listed on the list. *Club Station.* Trustee Slusher and President Tom Soskin have talked about moving material out of the storage garage. Some suggest renting a dumpster. Club house roof repair is discussed. McClaren roofing says that we need a new roof. It was built wrong and parts are failing. A general contractor will have to fix the structural problems. The contractor will be at the clubhouse tomorrow morning. These contractors will be available in 2 weeks. County permits will be required. Doug does not have any cost estimates. Doug Slusher talks about new internet plans, including plans with 1 3 to 16 MB. There Is a new special price. This plan would jettison 2 phone lines act the repeater locations. There is a motion to disable the 2 phone lines to the mountain top repeater locations, and to switch to Comcast. The plans do not include the renter upstairs at the Alto clubhouse.

8:12 PM. There is a motion to change and upgrade the internet service to the Alto clubhouse. There is a second and a vote to change.

8:12 PM. Trustee Doug Slusher and President Tom Soskin discuss the JOTA event with the Boy Scouts. The church location is very suitable.

8:13 PM. There is a discussion about the logo for the communications van. Club Member John Boyd shows artwork depictions for the van painting. Board members view various paint, and decal arrangements. John Boyd will discover various price plans and present a proposal.

8:25 PM. New Business. There is a discussion about the Christmas Party budget. The club spends about 1000\$ last year in 2016. The club has a motion, second, and vote that 1000\$ is a good estimate which may change. 25\$ is a good price for tickets. There is a motion, second, and vote to keep the admission price at 25\$. There is a discussion about the club picnic budget. The cost for burgers, buns, and hot dogs will be about 500\$. Member Mitch Martin will be available to buy the food. President Tom Soskin offers to buy food for the picnic. There is a motion to spend not more than \$500. There is a second, and a vote.

. Are there any suggestions for the Honorary membership? Steven Toquinto is recommended for all of his work with the 2-Meter nets.

8:41 PM. A discussion of emails including the APRS money requests by Rob

Rowlands. The price for the units is 423.96\$ for 4 digipeaters. Member Curtis Ardourel makes a motion to approve the expenditure but insists future requests be presented in a more formal manner before the Board (Rather than email). There is a motion, second, and a vote to make the expenditure .

8:50 PM. A discussion of emails continues. Richard Dillman has offered to make another presentation which is heartily accepted. He wishes to demonstrate his collection of old radio spy-gear.

8:54 PM. Further email discussion include a date change to October 28, 2017 for the public service event. Also, included is about whether or not the MARS club should participate in the California QSO party, which would offer the club facilities to those who want to work HF. The Board consensus is that the notice from Peter McElmury AA6SF Is too short, but the club would participate fully next year in 2018.

8:59 PM. A final note. Randy Jenkins has a list of necessary equipment for the communications van, and the list does not exceed 400\$. Randy submits the list to President Tom Soskin and the Board. There Is a motion, second, and vote to approve Randy's expense list.

9:03 PM. Is there anything else for the good of the order. No. The board meeting is gaveled to a close by a motion, second, and vote.

Marin Amateur Radio Society W6SG.NET, membership@w6sg.net General Membership Meeting is held on the first Friday of each month 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.

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.

Sunday morning informal meeting (aka bible class) 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.

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.

<p>Marin Amateur Radio Society Officers and Board Members:</p> <p>President Tom Soskin, W6MTS tomsoskin@gmail.com</p> <p>Vice President Kris Backenstose, KK6AYC</p> <p>Secretary David Chaney, AA6AE</p> <p>Treasurer: Dave Hodgson KG6TCJ 707 978-2560</p> <p>Board Members Curtis Ardourel, W6UDS, 510-595-3494 Cal Anber N6TIA 209-275-5252 Marc Bruvry KF6VNT 492-9292 Ed Essick K6ELE 456-1715 Mitch Martin, WU1Q</p> <p>Other Positions:</p> <p>Education Chair Randy Jenkins Kris Backenstose Instruction Team Leader.</p> <p>VE Liaison Randy Jenkins</p> <p>Building Co-Managers Doug Slusher Dave Hodgson</p> <p>Trustee for W6SG Mitch Martin, WU1Q</p> <p>Trustee for K6GWE Doug Slusher KF6AKU</p> <p>Sunday Emergency Nets Mark Bruvry</p> <p>DX Representative of ARRL Jerry Foster WA6BXV 892-3829</p>	<p>Public Service Event Coordinators Randy Jenkins KA6BQF ka6bqf@arrl.net Rob Rowlands, NZ6J, Michael Fischer, K6MLF</p> <p>Membership Curtis Ardourel, WA6UDS</p> <p>Editor of QSA-5 Ed Essick K6ELE e.essick@comcast.net</p> <p>ARRL San Francisco Section Manager Bill Hillendahl KH6GJV@ARRL.ORG</p> <p>WEBMASTER Glenn Meader N1ZKW 987-3948 N1ZKW@ARRL.NET</p> <p>HF Sunday Net Control Mike Ransom, AI6II</p> <p>VHF Sunday Net Control Steve Toquinto, KB6HOH</p>
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