



# The Transponder



The monthly newsletter of the Hughes Amateur Radio Club, W6HA  
- An ARRL affiliated club -

September 13, 2019 Repeater 445.620 – PL 127.3 Web Site: <http://W6HA.com> Vol. XLVI, No. 9

**\*\*\* CLUB MEETING \*\*\***

**Where:** El Segundo Library - Friends of the Library Conference Room  
**Location:** 111 Mariposa Ave (near Main Street) , El Segundo, CA 90245

**Meeting Notice:** Date: **Thursday, September 19, 2019;**  
Time: **Gather, 11:30; Meeting: 12 to 1 PM**



**Featured Presentation:**

**NBEMS** (*Narrow Band Emergency Messaging Software*)  
*(We try again, hopefully with the Conference Room this time)*

**Up Coming Events:**

- Oct 19, Saturday – BSA Jamboree On-The-Air (JOTA). Brian, AB6UI – KHYC
- Oct.26, Nov2, Saturdays Technician Class Joslyn Center, MB
- Dec. 7<sup>th</sup>, 2019 – Ray Miller 50/50

**Nets on the Club’s Repeater:** *(See Last page for details)*

**Wednesday Evenings at 7:30 PM – Hughes ARC members net,** (then Simplex @ 146.55)  
**Thursdays about Noon (12:05 PM) Raytheon Emergency Communication Team (ECT)**

Other South Bay Nets: Thursdays at 7:30 PM So Bay ARC Net  
1<sup>st</sup> Mondays of the month (7:00 PM) – LAFD CERT

<b>Inside:</b>	<b>page</b>
Club News - - - - -	2
ARRL Letter – excerpts of possible interest - - - - -	3
ARRL Contest Update – Excerpts - - - - -	3
K7RA Solar Update - - - - -	5
Just Ahead in Radio Sport - - - - -	6
Select DX News - - - - -	6
Amateur Radio Licensing Exams & LAX Section officers - -	9
WIAW Schedule – Qualifying Runs & SKCC info- - - - -	10
Club Officers & Info - - - - -	11

**Lunch:** Pizza: 1 Large Veggie; 1 Lrg Pepperoni; 1 Lrg Special; 1 Lrg Sausage, (\$3.50/slice)  
**Prices:** 2 slices of Pizza w/salad, \$8.00; 1 slice of pizza w/salad \$5.00; Salad only \$4.00  
**Sodas:** Coke, Coke Zero & Ginger Ale (\$1.00) - Water (50 cents)

Transponder Deadline for Submittal of Articles: Wednesday, before next meeting

**Club News:**

**Urgent E-Mail from President Mike, N6MDV**

I was informed today that Raytheon has sold the lot T area of the plant site; that is where our antenna tower trailer and storage container are kept. We have until the end of this calendar year to move them or abandon them! (2-3 months) I suspect sooner would be better as they have already shortened it from one full year to just the end of this year. They are urgently preparing for the sale. I was up there today and saw numerous people and trucks moving stuff out of the site. We need to form a plan quickly!

I really want multiple perspectives and options identified quickly. Ken is looking into whether we might be able to move our gear to another part of the plant site. I don't think we should expect that this will happen. Please gather your thoughts. At our meeting next week we should firm up a plan.

My thoughts...

First, remove from the container all the things we don't expect we need. After next Thursday's meeting all those who want any of the yellow or red tagged items should come to the container and take it home. Those who have personal items stored in the trailer, ought to be prepared to take them out by November. (Note Ken has dropped off a large quantity of 100AH batteries that I think we should encourage people to take and use for emergency power).

Second, we should schedule a booth at the SWAP meet at this September's swap meet and again at the October meet. Sell all the items that we don't want to keep. Anything left after that could be sold on ebay with a commission to the club member selling it, or the items should be disposed of (ewaste or otherwise). I'd like a swap meet lead person and co lead to arrange for and operate the swap meet booth. Again, soon is better.

Third, we need to find a place to park the trailer. It is 7' wide and 25' long. It should have a place that is safe from vandalism and accessible for our special events.

Fourth, we need to find a place for our container. It is 8' wide and 40' long. The location should be safe from vandalism and ideally available 24x7 for access to our equipment. Ideally it should not be far from the center of our activities. I estimate the cost of moving the container may be \$400 or more based on a very quick web search. Our treasury will be substantially impacted by moving our container and gear. Moving the container likely will require removing much of the stuff out of the container or superb tying down the items in the container as it lifted, tilted, and moved.

Fifth, I suggest that we explore location options in

parallel by multiple members using their know-ledge and contacts. No commitment should be made to any location without concurrence of the club. However, we don't have time to search sequentially. While there is still a chance that Raytheon will find us a spot, we should Be Pre-pared with a location and move plan.

I'd like each of you to suggest possible locations and identify the points of contact for getting approval and gather a list of pros and cons for any suggested location. Let's see what we can do before next Thursday's club meeting. Possibly there is a city, CERT, or business that may have an interest in supporting Ham radio, emergency operations, and has the space for equipment.

Thanks for helping with this. They say change is the only constant. We've done well with our current location and gear gathering. Let's make sure we can do as well going forward.

You have each been a key contributor to making the club what it is today. Your help in this critical matter will be essential. Thanks!

Mike  
W6HA Club President

**Contest for: September - October**  
**WWV 100th Anniversary Special Event**  
**See Page 5**

**HNLB-Hughes Net Lunch Bunch - 9/3/19**  
**QST QST QST**

Somehow missed Betty's usual report on the lunch, but there were about eight of us there. We were advised to use YELP to make a reservation last week, but then found out that they don't take reservations? So, we had a short wait for a table. MMQ for ...

Betty, N6VZF

Ed.Note: The Hughes Net Lunch Bunchers (HNLBers) meet in Westchester, at the Coffee Co. La Tijera Blvd & Sepulveda East way, at 11:30 am. They've meet on the 1st Tuesday of the Month - since the mid 70s - 40 years!



To the optimist, the glass is half-full.  
To the pessimist, the glass is half-empty.  
To the engineer, the glass is twice as big as it needs to be.

## ARRL Letter – Excerpts of possible interest

### Dayton Hamvention Signs 5-Year Contract with Greene County Expo Center

The Dayton Amateur Radio Association (DARA) has signed a 5-year agreement to keep Dayton Hamvention® at the Greene County Expo Center. The agreement was announced on September 9 by Hamvention General Chairman Jack Gerbs, WB8SCT.



"It has been a wonderful experience working with the Expo Center team in the development of this agreement," Gerbs said. "With the 5-year agreement signed, the Expo Center and Hamvention can move forward with additional enhancements to the facilities."

Dayton Amateur Radio Association President Ron Cramer, KD8ENJ, said the DARA Board, in approving the contract, noted that the relationship with the Expo Center and Greene County, the City of Xenia, and Xenia Township "has proven especially rewarding." Cramer said, "They all have worked hard to make Hamvention a success over the last 3 years. We look forward to a great relationship over the next 5 years and beyond." Hamvention's 2019 attendance was 32,472 -- the highest recorded since the move to the Exposition Center in Xenia in 2017, which was coordinated by Cramer, the Hamvention General Chairman in 2017 and 2018.

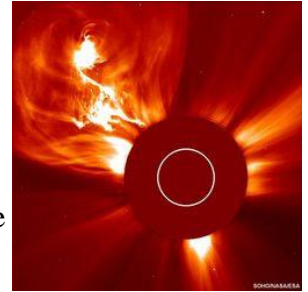
The largest Amateur Radio show in the US, Dayton Hamvention is held the third full weekend in May. The dates for 2020 are May 15 - 17.

### 160 Years Since The Carrington Event

September 1 marks the 160th anniversary of the Carrington Event, the strongest geomagnetic storm known to have hit Earth since at least the 14th century. The event was named for British astronomer Richard Carrington, who first viewed and sketched the huge sunspot complex on the sun from which a gigantic solar flare -- a coronal mass

ejection -- erupted, as he watched. Within hours, Earth was virtually enveloped by an aurora borealis that was visible even at lower latitudes and into the tropics. It was a truly spectacular light show that in some places, turned night into day. When the flare interacted with Earth's magnetosphere, however, it was another story.

This was the Victorian age, when practical wireless was still a few decades off, but the "auroral phenomena," as it was called then, had "a remarkable manifestation of magnetic influence" on telegraph wires -- the internet of the day, as it were. So considerable was the effect that *The New York Times* [reported](#) telegraph operators were able to disconnect the batteries that normally operated the system and were "working by the atmospheric current entirely!" Although the operators subsequently were able to reconnect their batteries, the storm continued to affect the lines. A telegraph manager in Pittsburgh reported "streams of fire" emitted from the circuits. In Washington, DC, telegraph operator Frederick W. Royce was severely shocked as his forehead grazed a ground wire. A witness said an arc of fire jumped from Royce's head to the telegraphic equipment.



Operators said that at times the polarity of the battery power supply would become reversed. "One moment the batteries would begin to boil over, and we would have so strong a circuit that the armature would not come away from the magnet; the next moment, there would be no current at all," a report from Quebec recounted.

Based on examinations of ice samples, scientists believe that geomagnetic storms two and three times stronger occurred prior to the 14th century.

After the Carrington Event, scientists began paying a lot more attention to solar phenomena and sunspots. -- *Thanks to Frank Donovan, W3LPL*

### Efforts Continue to Enhance ARES Program, Add Resources

The ARRL Board of Directors, committees, and Headquarters administrative staff are continuing efforts to enhance the venerable Amateur Radio Emergency Service





(ARES<sup>®</sup>) program. A major [ARES Plan](#) has been adopted, providing new direction going forward. In addition, a standardized training plan has been adopted, and a new [ARES Emergency Communicator Individual Task Book](#) has been approved and published.

At its July meeting, the ARRL Board considered the [report](#) of its Public Service Enhancement Working Group (PSEWG). A "change log" was proposed for the *Task Book* that will highlight changes made as the document is periodically revised and updated. ARES position guidelines were posted to the online *ARES Workbook* and a major revision and update of ARRL's *Introduction to Emergency Communications* course -- now designated as EC-001 -- has been completed.

The course is now available at no cost to any ARES registrant, and a "mentor-less" format has been added as a parallel path for completing the course. Additional mentors were recruited to assist in handling the initial surge of interest. A self-guided version that leads up to the final exam is also being implemented. An update and introduction of EC-016 -- *Public Service and Emergency Communications Management for Radio Amateurs* -- has been completed.

Veteran Ohio Section Manager Scott Yonally, N8SY, has been brought on board to assist in implementing *ARES Connect* and to field questions about the new software package from users. *ARES Connect* is a volunteer management system covering event signup, reporting, and roster management, to simplify managing volunteers and events.

Some modest procedural revisions have been made to the [Ham Aid](#) program. Read [more](#). -- *Thanks to The ARES E-Letter*

### **Inter-American Proposal Removes 47 - 47.2 GHz from Bands under Study for 5G Services**

The 34th meeting of the Inter-American Telecommunication Commission ([CITEL](#)) Permanent Consultative Committee II ([PCC.II](#)) concluded a week of meetings on August 16 in Ottawa, Canada, in advance of World Radiocommunication Conference (WRC-19). The meetings were aimed at reaching regional

consensus on WRC-19 agenda items. Attendees at PCC.II included ARRL Technical Relations Specialist Jon Siverling, WB3ERA, who is on the US delegation to WRC-19.

"The big news is that the Inter-American Proposal (IAP) going forward to ITU from CITEL countries has removed the 47 - 47.2 GHz Amateur Radio allocation from WRC-19 agenda item 1.13," Siverling said. "We are putting forward a 'no change' proposal." Supported by 13 member-states, the IAP would take frequencies in that range off the table for possible sharing with 5G International Mobile Telephony (IMT). Siverling conceded that other administrations could raise the issue at WRC-19.

The International Telecommunication Union ([ITU](#)) Radiocommunication Sector (ITU-R) was to conduct and complete appropriate studies to determine spectrum needs for the IMT terrestrial component in the 24.25 - 86 GHz range, and studies on sharing and compatibility, while taking into account the protection of services with primary allocations on the band. ITU-R has not conducted any sharing studies between the IMT-2020 systems and incumbent Amateur Radio and Amateur Satellite services. "Therefore, it has not been demonstrated that the incumbent services can be protected, as required by Resolution 238 (WRC-15), and no change is proposed for the 47 - 47.2 GHz frequency band," the IAP said.

Under WRC-19 agenda item 10 (future agenda items), language to protect the Amateur Radio primary 50 - 54 MHz allocation was included in a US proposal to study implementing space-based



**Radio amateurs present at the CITEL meeting tasked with looking out for issues of concern to the Amateur Service were (from left to right) Bryan Rawlings, VE3QN, a member of Canada's WRC-19 delegation and Radio Amateurs of Canada (RAC) Special Advisor to World Radiocommunication Conferences; George Gorsline, VE3YV, an IARU Region 2 Executive Committee member; Flavio Archangelo, PY2ZX, a member of Brazil's WRC-19 delegation and the IARU Region 2 CITEL coordinator; Sergio Bertuzzo, VA3SB, RAC International Affairs Officer, and Jon Siverling, WB3ERA, a member of the US delegation to WRC-19 and ARRL Technical Relations Officer.**

Earth Exploration Satellite Service (EESS) radars to operate in the 40 - 50 MHz range, in time for WRC-23, recognizing that 50 - 54 MHz is primary in Regions 2 and 3, with an alternative primary Amateur Service allocation in a number of Region 1 countries.

Also under agenda item 10, the frequency segment 47 - 47.2 GHz was removed from a proposal to study several additional frequency ranges for the Fixed Satellite Service (FSS).

Language in a Canadian contribution, with additions from the US delegation, was added regarding WRC-19 agenda item 9.1.6, which seeks to identify frequencies for medium- and high-power wireless charging of electric vehicles (WPT-EV). Delegates to PCC.II forwarded an IAP of no change to the *Radio Regulations*.

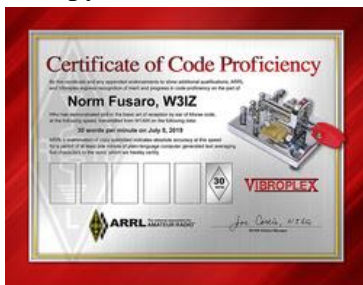
The recent CITEL meeting was the last prior to WRC-19. Read [more](#). -- Thanks to Jon Siverling, WB3ERA, and Bryan Rawlings, VE3QN

**Starting with the August issue, QST will list the recipients of W1AW Code**

**Proficiency certificates.** (repeat from July)

Key manufacturer [Vibroplex](#) is now sponsoring the certificates, which have been redesigned. The Code Proficiency program has been an ARRL staple for decades. Participants who copy a [W1AW](#)

[qualifying run](#) and submit 1 minute of legible solid copy and the \$10 certificate fee can qualify. Send submissions to W1AW Qualifying Run, 225 Main St., Newington,



CT USA 06111. These are checked directly against the official W1AW text, and those demonstrating solid copy will receive an initial Code Proficiency certificate. Endorsement stickers, which cost \$7.50, are issued for speeds up to 40 WPM. The W1AW Code Proficiency Program is open to hams and non-hams alike. Those seeking to attain a Code Proficiency certificate can listen to W1AW daily code practice sessions, in which the text is taken directly from *QST*, as announced before each practice run. [See page 9 for the next four qualifying runs. - ed]

**WWV 100th Anniversary Special Event Operation in the Planning Stages** [Repeated from Feb - ed]

It's a celebratory year for the WWV stations, ... marking their 100th year this fall.



Dave Swartz, W0DAS, of the Northern Colorado Amateur Radio Club ([NCARC](#)) is developing plans for an NCARC special event from **September 28 through October 2**, with a NIST centennial observance tentatively set for October 1. ...

**Here's what's happening Now:**

The world's oldest radio station, WWV, turns 100 years on October 1, 2019, and we are celebrating!

From September 28 through October 2, 2019, the Northern Colorado ARC and WWV ARC, along with help from RMHam, FCCW, and operators from across the country, are planning 24-hour operations of special event station WW0WWV on CW, SSB and digital modes. Operations will shift between HF bands following normal propagation changes and will include 160m and 6m meteor scatter. We will be operating right at the WWV site and face a challenging RF environment

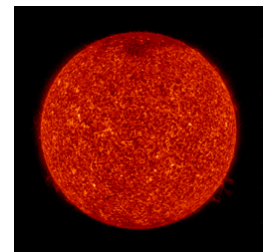
For More info: <http://wwv100.com/>

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**The K7RA Solar Update**

Tad Cook, K7RA, Seattle, reports: No sunspots this week. The average daily sunspot numbers declined from 3.4 to 0. At the same time, the average daily solar flux rose from 67.4 to 69.4.

Geomagnetic activity quieted, with the average daily planetary A index declining from 19.9 to 8.9, while the average daily mid-latitude A index went from 16.7 to 7.7.



Predicted solar flux is 68 on September 12 - 22; 69 on September 23 - October 5; 68 on October 6 - 19; 69 on October 20 - 24; 68 on October 25, and 69 on October 26.

Predicted planetary A index is 5 on September 12 - 22; 8 on September 23; 5 on September 24 - 25; 10, 35, 45, 20, and 10 on September 26 - 30; 8, 10, and 8 on October 1 - 3; 5 on October 4 - 19; 8 on

October 20; 5 on October 21 - 22; 8, 25, 30, and 18 on October 23 - 26.

Sunspot numbers for September 5 - 11, 2019 were 0, 0, 0, 0, 0, 0, and 0, with a mean of 0. The 10.7-centimeter flux was 68.3, 68.9, 73.9, 67.5, 68.8, 70, and 68.1, with a mean of 69.4. Estimated planetary A indices were 14, 8, 7, 10, 14, 4, and 5, with a mean of 8.9. Middle latitude A index was 11, 9, 6, 9, 11, 4, and 4, with a mean of 7.7.

A comprehensive K7RA Solar Update is posted Fridays on the ARRL website. For more information concerning radio propagation, [visit](#) the ARRL Technical Information Service, [read](#) "What the Numbers Mean..." and [check out](#) K9LA's Propagation Page.

A propagation bulletin [archive](#) is available. [Monthly charts](#) offer propagation projections between the US and a dozen DX locations.

[Share](#) your reports and observations.

### **ARRL Section, State and Division Conventions / Hamfest in the West or near members:**

September 21 - 22 -- [New Mexico State Convention](#), Albuquerque, New Mexico  
September 27 - 28 -- [Central Division Convention](#), Milwaukee, Wisconsin  
October 11 - 12 -- [PNWVHFS Conference and Meeting](#), Issaquah, Washington  
**[October 18 - 20 – ARRL Pacific Division Convention, San Ramon, California](#)**

Find conventions and hamfests [in your area](#).

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### **Just Ahead in Radiosports**

Sept. 14 - 15 -- Russian Cup Digital Contest  
**Sept. 14-6 - [ARRL Sept. VHF Contest \(cw, ph, dig\)](#)**  
**Sept. 15 -- [North American Sprint \(RTTY\)](#)**  
Sept. 15 - 18 -- Classic Exchange (CW)  
Sept. 15 -- BARTG Sprint 75 (Digital)  
Sept. 16 -- Run for the Bacon QRP Contest (CW)  
Sept. 18 -- RSGB 80-Meter Autumn Series (CW)  
Sept. 19 -- NAQCC CW Sprint  
Sept. 20 -- AGB NEMIGA Contest (CW, ph, dig)  
**Sept. 28 – Oct. 2 WWV Centennial Special Event.** (See Page 5)

See the [ARRL Contest Calendar](#) for more information. For in-depth reporting on Amateur Radio contesting, subscribe to [The ARRL Contest Update](#) via your ARRL member profile email preferences.

The Canadian National Parks on the Air, CNPOTA, operating event runs for the entire year of 2019, with special stations active from Canada's parks and historic sites.

All dates & times are UTC.

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**Selected DX News** (QRV = Ready! or Are you Ready?)

#### **ARLD036 DX news**

This week's bulletin was made possible with information provided by The Daily DX, the OPDX Bulletin, 425 DX News, DXNL, Contest Corral from QST and the ARRL Contest Calendar and WA7BNM web sites. Thanks to all.

SWAZILAND, 3DA. Pista, HA5AO will be QRV as 3DA0AO from **September 16 to 30**. Activity will be on 80 to 10 meters using CW, RTTY and FT8. QSL to home call.

SOMALIA, 6O. Ken, LA7GIA will be QRV as 6O7O from **September 14 to 28**. Activity will be on 160 to 10M using CW, with some SSB and FT8 on one or two bands. QSL via M0OXO.

TONGA, A3. Heli, DD0VR will be QRV as A35JY from **September 16 to 21**. Activity will be on the HF bands using SSB. QSL to home call.

BAHRAIN, A9. Station A91ARS is QRV until **Sept. 25** to recognize Saudi Arabia's National Day.

NAURU, C2. A group of operators will be QRV as C21WW from **September 16 to 25**. Activity will be on 160 to 10 meters using CW, SSB, RTTY and FT8 in DXpedition mode. QSL via YL2GN.

DOMINICA, J7. Walter, HB9MFM is QRV as J79WTA on Nature Island for the next 6 months. Activity is on the HF bands, and eventually 6M, in his spare time. QSL #1

MARIANA ISLANDS, KH0. Harry, JG7PSJ will be QRV as WH0RU from Saipan Island, IOTA OC-086, from **Sept. 15 to 22**. Activity will be on 40 to 10M using CW, SSB & RTTY. QSL #1.

AUSTRIA, OE. Special event station OE15SOTA is QRV until **September 22** to celebrate 15 years of SOTA activity in Austria. QSL via bureau.

CZECH REPUBLIC, OK. Special event station OL75CARBON is QRV until **Nov. 30** to celebrate the 75th anniversary of WW II Op CARBON, consisting of paratroopers who jumped into the Protectorate of Bohemia & Moravia. Activity is on all bands using mostly CW, but also SSB, FM, and other digital modes. QSL #2

DENMARK, OZ. Rosel, DL3KWR is QRV with special call OZ6SYL near Faxe on Sjaelland Island, IOTA EU-029, until **Sept. 23**. Activity will be holiday style using CW. This includes being an entry in the upcoming Scandinavian Activity CW contest. QSL via OZ7AGR.

NETHERLANDS, PA. Special event station PA75LIMBURG is QRV until **March 2020** to commemorate the liberation of the province Limburg 75 years ago. QSL via PC8DB.

EAST KIRIBATI, T32. Ken, KH6QJ is QRV as T32AZ on Kiritimati Island, IOTA OC-024, until **September 24**. This includes being an entry in the upcoming All Asia SSB contest. QSL #1

PALAU, T8. Toshi, JM1LIG, Yas, JA6UBY and Miyo, JO3LVG are QRV as T88FM, T88RR and T88MK, respectively, from Koror Island, IOTA OC-009, until **September 20**. Activity is on the HF bands using CW, SSB and various digital modes. QSL direct to home calls.

CHAD, TT. Jean Louis, ZS6AAG is QRV as TT8JLH from N'Djamena until **Oct. 14** while on work assignment with Medecins Sans Frontiers. Activity in spare time on 20M using SSB. QSL #1

WEST MALAYSIA, 9M2. A large group of operators will be QRV with special event call 9M16KING from Kuala Lumpur from **September 1 to 30** in celebration of the 16th Yang di-Pertuan Agong. Activity will be on 80 to 10 M using CW, SSB and digital modes. QSL #2

NEW CALEDONIA, FK. Jan, F6EYB is QRV as FK8CJ from Noumea, IOTA OC-032, **until the end of 2019**. Activity is mainly on 30, 20 and 17

meters. QSL #1

BULGARIA, LZ. Members of the Bulgarian Radio Club Blagovestnik will be QRV as LZ304EW **during Sept.** to honor Orthodox saints. QSL via bureau.

AUSTRIA, OE. Members of the VIC Amateur Radio Contest DX Club will be QRV as 4U500M **during Sept.** to commemorate Ferdinand Magellan's circumnavigation of the globe 500 years ago. QSL via UA3DX.

PAPUA NEW GUINEA, P2. Puiu, P29VIM is QRV from Papua and other islands until **Sept. 22**. Activity is on 160 to 10M, including 60M, using CW, JT9 and FT8. QSL via YO5BIM.

NETHERLANDS, PA. Special event station PD538RNI is QRV **until Sept. 26** to commemorate Radio North Sea International & Radio Veronica, 2 1970 offshore radio stations. QSL via PD0ARI.

AFGHANISTAN, T6. Robert, S53R will be QRV as T6AA from Kabul from **September to the Summer of 2021** while on work assignment. Activity will be on the HF bands using CW, SSB and various digital modes. He will be active as T6A during major contests. QSL to home call.

SOLOMON ISLANDS, H4. Bernhard, DL2GAC is QRV as H44MS from Malaita Island, IOTA OC-047, **until September 25**. Activity is on 80 to 6 meters using only SSB. QSL to home call.

GHANA, 9G. Chip, KB1QU will be active as 9G5QU from **September 8 to 21**. Activity will be on 40, 30 and 20 meters using CW, FT8 and FT4. QSL via N4GNR direct.

NAURU, C21. Operators Yuris, YL2GM, Jack, YL2KA, Kaspars, YL1ZF and Kristers, YL3JA will be active as C21W from **September 16 to 25**, after their Western Kiribati operation. Activity will be on 160 to 6 meters, and possibly 60 meters, using CW, SSB, RTTY and FT8. QSL via YL2GN direct or via ClubLog.

THE NETHERLANDS, PA75. Special Event station PA75OMG will be active **Sept. 12 to 22** to celebrate the anniversary of freedom and Operation



Market Garden during World War II. QSL via the info on QRZ.com.

LIBERIA, A8. The Italian DXpedition Team of 11 operators will be active from **Sept. 28 to Oct. 11**. They plan to use two call signs: A82X for CW, SSB and RTTY and A82Z for FT8 only. Activity will be on 160 to 10 meters using CW, SSB, RTTY and FT8. They are planning to use 5 stations with maximum flexibility. QSL via OQRS, I2YSB direct only or LoTW after the operation.

ANTIGUA, V2. Bud, AA3B will be active as V26K from **Sept. 8 to 20**. Activity will be primarily CW on HF bands. QSL #4 or #1 or #3. An OQRS will be available via ClubLog.

**Long Term:** (longer than 1 month)

JAPAN, JA. Special event station 8J7AIZU is QRV until **November 30** to highlight the 120th anniversary of Aizu Wakamatsu City in Fukushima. QSL via JN7GLC.

UKRAINE, UR. Special event station EN185UNIV will be **QRV from April 15 to Dec. 31, 2019** to celebrate the 185th year of the Taras Shevchenko National University of Kiev.

SWEDEN, SM. Members of National Association of the Active Seeing Impaired club station SK5CG are QRV with special event station SF50CG during **all of 2019** in celebration of their 50th anniversary. QSL via SMOBYD.

FEDERAL REPUBLIC OF GERMANY, DA. Special event station DM775FLD is QRV **during all of 2019** to celebrate the founding of the town of Friedland 775 years ago. QSL #3

Until 2020

GHANA, 9G. Emil, ZS6EGB is QRV as 9G5ZS until **February 2020**. Activity is on the HF bands using FT8. QSL #4.

**ANTARCTICA**

[Summer Season November – April]

**Notes:**

1. QSL direct to home call.
2. QSL via operators' instructions.
3. QSL via bureau
4. QSL via LoTW
5. QSL via Instruction on QRZ.com

**Lunch Financials** – for July 21, 2019

**Attendance:** 20

	Starting Lunch Kitty:	\$183.00
Expenses: Pizza(4) & Salads	\$102.00	
Drinks: Soda: 9 @ 0.36 =	\$3.25	
Water 2 @ 0.25 =	\$0.50	
Food Total:	\$105.75	\$77.25
Income: Lunch:	\$124.00	\$201.25
Room Rent-To General Funds:	\$0.00	\$201.25
Starting - Kitty for Aug. 20, 2019 Mtg:		\$201.25
<u>[Gain of \$18.25 - \$20.00 for room rent = Loss of \$1.75]</u>		

**Lunch Financials** – for August 20, 2019

**Attendance:** 26

	Starting Lunch Kitty:	\$201.25
Expenses: Pizza(1) & Salads	\$102.00	
Drinks: Soda: 10 @ 0.35 =	\$3.50	
Water 2 @ 0.25 =	\$0.50	
Food Total:	\$106.00	\$95.25
Income: Lunch:	\$104.75	\$200.00
Room Rent-To General Funds:	\$0.00	\$200.00
Starting - Kitty for Sept. 19 Mtg:		\$200.00
<u>[Loss of \$1.25 - \$0.00 for room rent = Loss of \$1.25]</u>		

\* \* \*

The way to get rich is to keep \$10 million in your checking account in case a good deal comes along.  
- Charlie Munger



**AMATEUR RADIO LICENSING EXAMS:**

TRW Swap meet at the corner of Aviation Blvd and Marine Avenue in Redondo Beach. 10AM in the Northrop cafeteria. Always the last Saturday of the month – no reservation is required.

([www.W6TRW.com](http://www.W6TRW.com))

**ARRL Announces Free Exam Review Website**

The ARRL has launched a web site that allows users to take randomly generated practice exams using questions from the actual examination question pool. [ARRL Exam Review for Ham Radio™](#) is *free*, and users do *not* need to be ARRL members. The only requirement is that users must first set up a site login (this is a different and separate login from your ARRL website user registration).

**Other Free Exam Practice Sites:**

<http://aa9pw.com/radio/technician/>

<http://www.eham.net/exams/>

This Practice Exam site Requires Registration

<https://www.qrz.com/hamtest/>

**ARRL LAX Section Officers:**

Section Manager: Diana Feinberg, AI6DF

PO Box 4678

Palos Verdes Peninsula. Ca 90274-9618

[AI6DF@arrl.org](mailto:AI6DF@arrl.org) or 310-544-2917

LAX SEC : JIM STOKER AG6EF

4555 ENCINAS DR

LA CANADA FLINTRIDGE CA 9101

818 790 2832

LAX Section Traffic Mngr: Kate Hutton, K6HTN

For Radiogram formatting instructions go to

[www.ARRLLAX.org](http://www.ARRLLAX.org) .

**RF Safety** – Power Density Web site:

[http://hintlink.com/power\\_density.htm](http://hintlink.com/power_density.htm)

Links: TRW license test

<http://w6trw.com/index.php/amateur-radio-license-testing/>

**PodCast – Amateur Radio News**

(The above is a link to an MP3 audio feed)

On-Line Stores / suppliers:

<http://www.impulseelectronics.com/> PowerPole

<https://elkantennas.com> - LPA VHF/UHF Ant.

<http://hamcity.com> - Local – Conn, cables, ants.

<http://www.aesham.com/> - Ham Radio Outlet

<http://www.dxengineering.com>

<http://www.gigaparts.com/>

<http://www.AllElectronics.com> – Parts

<http://TheWireman.com> – Ant. Coax, UV Dacron

ARRL <http://arrl.org>

CQ Mag [http://store.cq-amateur-](http://store.cq-amateur-radio.com/product-category/books/)

[radio.com/product-category/books/](http://store.cq-amateur-radio.com/product-category/books/)

BGMicro <https://www.bgmicro.com/>

**HARC Past & Current Presidents**

1973 Doug Erny, AK7E (former W6NPD)

1974 Orson Just, K6JGV, sk

1975, 76 Tom Rothwell, K6ZT, sk

1977 Tom McInnis, WB6ZEB, sk

1978,79 Sam Weise, W6LXR

1980 Bob Poole, AJ6F

1981 Russ Sanford, WA6NQQ, sk

1982, 83 Chuck, KN6H

1984 John Bennett, WD6BAI

1985 Scott Fraser, KN6F

1986, 87 Ed, K6GQV

1988 John, WA6LOD

1989, 90 John, KJ6AW

1992 Bruce, WB6ARE

1993 Rick, KD6DYN

1994

1995,6,7,8,9 Brian, AB6UI

2000,1,2 Bruce, W6BLS

2004,5,6 Ed, N6EG

2007 - 2014 Barry, KG6NWJ

2015, 16, 17 – Dale Birmingham, WB6MMQ

2018-19 Mike, N6MDV (Current President)

**Southern California Band Plans:**

**Tasma** – 2 Meters

<http://www.tasma.org/TASMA-2m-Band-Plan.pdf>

220 MHz Spectrum Mngmnt Assoc. of So. Ca

**220SMA BAND PLAN**

<http://www.220sma.org/bandplan.htm>

**SCRRBA (Southern California Repeater and Remote Base Assoc.)** – 440 mHz (70 cm) and up

<http://www.scurrba.org/BandPlans/BandPlans.htm>

**W1AW Operating Schedule** (Edited - Note: Local time stays the same, UTC varies w/DST)

Morning Schedule:

Winter	Summer	Local	Mode	Days
1400 UTC	1300 UTC	(6 AM PDT)	CWs	Wed, Fri
1400 "	1300 UTC	(6 AM PDT)	CWf	Tue, Thu

Afternoon/Evening Schedule:

2100 UTC	2000 UTC	(1 PM PDT)	CWf	Mon, Wed, Fri
2100 "	2000 "	"	CWs	Tue, Thu
2200 "	2100 "	(2 PM PDT)	CWb	Daily, CW Bulletin, 18 WPM
2300 "	2200 "	(3 PM PDT)	DIGITAL	Daily, Digital Bulletin
0000 "	2300 "	(4 PM PDT)	CWs	Mon, Wed, Fri
0000 "	2300 "	"	CWf	Tue, Thu
0100 "	0000 "	(5 PM PDT)	CWb	Daily, CW Bulletin, 18 WPM
0200 "	0100 "	(6 PM PDT)	DIGITAL	Daily, Digital Bulletin
0245 "	0145 "	(6:45 PM PDT)	VOICE	Daily, Voice Bulletin
0300 "	0200 "	(7 PM PDT)	CWf	Mon, Wed, Fri
0300 "	0200 "	"	CWs	Tue, Thu
0400 "	0300 "	(8 PM PDT)	CWb	Daily, CW Bulletin, 18 WPM

Frequencies (MHz)

CW:	1.8025	3.5815	7.0475	14.0475	18.0975	21.0675	28.0675	50.350	147.555
DIGITAL:	-	3.5975	7.095	14.095	18.1025	21.095	28.095	50.350	147.555
VOICE:	1.855	3.990	7.290	14.290	18.160	21.390	28.590	50.350	147.555

Notes:

CWs = Morse Code practice (slow) = 5, 7.5, 10, 13 and 15 WPM

CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 and 10 WPM

CWb = Morse Code Bulletins = 18 WPM

CW frequencies include code practices, Qualifying Runs and CW bulletins.

DIGITAL = BAUDOT (45.45 baud) BPSK31 and MFSK16 in a revolving Schedule.

Code practice texts are from QST, and the source of each practice is given at the beginning of each practice and alternate speeds.

**W1AW Qualifying Runs:**

4 PM PDT Wed Sept 18 (2300 UTC) – on CW Frequencies listed above, 10 to 40 WPM

7 PM PDT Mon Oct 7 (0200 UTC Oct 8)

1 PM PDT Wed Oct 23 (2000 UTC)

**West Coast Qualifying Runs:**

2 PM PDT Sat Sept 28 (2100 UTC) by K6KPH on 3581.5, 7047.5, 14047.5, 21067.5; 10 – 35 wpm

9 PM PDT Wed Oct 30 (0400 UTC Oct 31) by KH6TU on 14047.5 kHz 40 – 10 wpm

Earn your Code Proficiency certificate by legibly copying at least 1 minute of text by hand and mailing the sheet to: W1AW Qualifying Runs, 225 Main St., Newington, CT 06111. Include \$10 (check or money order) if this is a submission for your initial Code Proficiency certificate; \$7.50 if you are applying for an endorsement (available for speeds up to 40 wpm). Your test will be checked against the actual transmissions to determine if you have qualified.

Audio from W1AW's CW code practices, CW/digital bulletins and phone bulletin is available using EchoLink via the W1AW Conference Server named "W1AWBDCT." The monthly W1AW Qualifying Runs are presented here, also. The audio (real-time) runs concurrently with W1AW's regular transmission schedule.

**The Straight Key Century Club (SKCC):**

[http://www.skccgroup.com/member\\_services/beginners\\_corner/](http://www.skccgroup.com/member_services/beginners_corner/)

**SKCC Beginner's Corner** (Headings from the above Web site)

**Monthly Straight Key Night (SKN)** is on the 1st of each month. It is not a contest. No logs are submitted.

The event, was inspired by the ARRL's annual SKN. The SKCC's founders wanted to have SKN monthly. The tradition continues!

**The Elmer frequency** is **7114 KHz**. It's a safe haven for CW new-comers. Elmers are encouraged to monitor the frequency and work the CW beginners, some of whom may have had a license for many years.

**2018 – 2019 CLUB OFFICERS****Elected Officers:**

<b>PRESIDENT:</b>	Mike, N6MDV	President at W6HA.com
<b>VICE PRESIDENT:</b>	Raul, KM6NRL	W6HA_VicePresident at W6HA.com
<b>SECRETARY:</b>	Judi, KI6TKT	W6HA at W6HA.com
<b>TREASURER:</b>	Alice, KK6MFL	Treasurer at W6HA.com
<b>STATION MANAGER:</b>	Brian, AB6UI	W6HASTationMgr at W6HA.com
<b>Immediate PAST PRES.:</b>	Dale, WB6MMQ	W6HA at W6HA.com

**Committees:**

<b>NEWSLETTER EDITOR:</b>	Dale, WB6MMQ	W6HA_Editor at W6HA.com
<b>WEB MASTER:</b>	Mike, N6MDV	W6HA at W6HA.com
<b>MEMBERSHIP:</b>	Dale, WB6MMQ	W6HA at W6HA.com
<b>SCRRBA REP:</b>	Ray, WA6NVL	WA6NVL at ARRL.net
<b>MEETING HOST:</b>	Dale, WB6MMQ	W6HA at W6HA
Asst. Host:	Howard, KE6MAK	W6HA at W6HA
<b>FIELD DAY :</b>	Mike, Dale, Raul, Richard	Fieldday at W6HA.com
<b>MEMBERSHIP:</b>	Dale, WB6MMQ	W6HA at W6HA.com
<b>NET COORDINATOR:</b>	Raul, WA6NVL	W6HA at W6HA.com
<b>YAHOO GROUPS MOD:</b>	Richard KM6FP	W6HA at W6HA.com ( <a href="http://groups.yahoo.com/w6ha">http://groups.yahoo.com/w6ha</a> )
<b>CLASS MODERATOR:</b>	Mike, N6MDV	W6HAClass at W6HA.com
<b>RAYTHEON SAS ECT:</b>	Ken, KI6YDN,	KSIMP1022 at AOL.com
<b>CLUB REPEATER: W6HA/R</b>	445.620 MHz (-) PL 127.3 Hz	Location: Bldg. R1 roof
	Packet (node :hughes) 145.61s W6HA	

**HARC Repeater Nets: Wednesdays, 7:30 PM (0200 UTC Thursdays)** (Just Started Sept. 2018)  
**Thursdays, 12:05PM (1900 UTC) RTN ECT – All are welcome**

**South Bay ARC Net: Thursdays at 7:30 PM on W6SBA/R, 224.38, PL 192.8**

**LAFD CERT Net: 1<sup>st</sup> Monday of the month, 7:00 PM (0200 UTC Tuesday)**

**HAC HF NET: HARC & Retired** 14.233 Mhz, Tuesdays, 13:00 PDT – Currently Inactive

**Club Shack:** The club shack is in E1, Lobby D. There is a Kenwood TS-520 HF radio connected to an 40 –10 meter antenna. This station is open to all club members. ( I would be happy to give a tour of the HF station in "Lobby D" to club members. Brian, AB6UI, Station Manager )

**Club Newsletter:** If you have items that would be of interest to the club, any comments, letters, or items for sale or trade please email it to Dale, WB6MMQ W6HA at W6HA.com. If anyone needs a club application, please contact Paul, KK6TAC or Dale, WB6MMQ and one will be sent to you.

**Club Roster:** Hardcopy available at meeting or contact the club membership chairman Dale, WB6MMQ

**Web Site:** <http://W6HA.com> or [W6HA.com](http://W6HA.com)

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The Hughes Amateur Radio Club is an ARRL affiliated club for FCC-licensed amateur radio operators and their family members. Membership is open to all Amateur Radio Operators and those who are aspiring Amateur Radio operators.

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