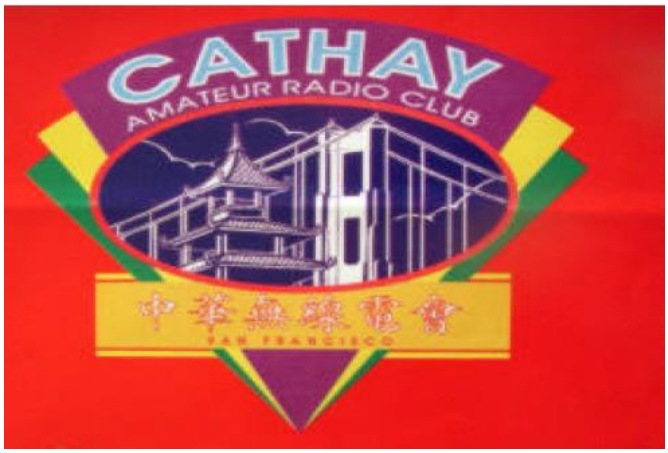

Cathay June 2020

www.cathayradio.org

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Mission: The Cathay Amateur Radio Club is basically an active social club of Ham Radio Operators and their spouses. We support local community requests for HAM emergency communications. Several of us are trained in CPR/ First Aid and are involved with community disaster preparedness.

Monday Night Net Time: 9 PM Local Time/PST, Repeater: WB6TCS - RX 147.210, TX 147.810, Offset +0.6 MHz, CTCSS/Tone PL100 Hz

Please note: Repeater: N6MNV UHF 442.700 Mhz, Offset +5MHz, CTCSS/Tone PL 173.8 Hz in South San Francisco is cross linked every Monday Night Net at 9 p.m. to WB6TCS 2-meter repeater.

The CARC Monday night net is the best way to find out the latest club news. All check-ins are welcome.

Message from the President: George Chong, *W6BUR*

Hello CARC Members and Friends;

Many thanks to Mr. Denis L. Moore – WB6TCS for the use of his repeater for our CARC Monday Night Net.

Memorial Day May 25, 2020 Tribute

By RodneyYee – KJ6DZI

The Cathay Amateur Radio Club was founded just after WWII (sometime between 1945 - 1948) by returning Chinese American servicemen that served in the China Burma India Theater.

It is only fitting that this newsletter has a special Memorial Day article.

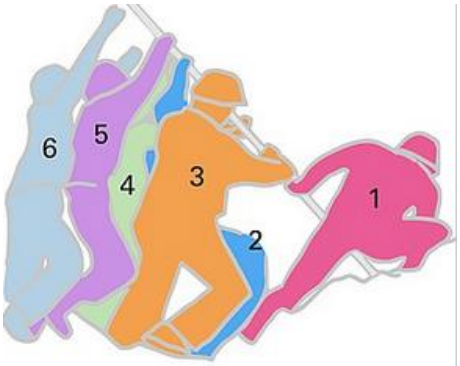
Memorial Day is designated as a federal holiday on the last Monday in the month of May. It is day of remembrance for honoring and mourning those United States Armed Forces personal that gave up their lives in the service of our country.

An epic and bloody battle took place a little over 75 years ago during World War II in the Pacific Ogasawara Archipelago on a tiny 8 square miles island named: Iwo Jima.

During the battle for Iwo Jima from February 19, 1945 – March 26, 1945 the iconic picture was taken as shown below:

On February 23, 1945 the second flag-raising on top of Mount Suribachi photo by Joseph John Rosenthal of the Associated Press

The fore-mentioned Iwo Jima flag raising picture was the 2nd raising of the American flag on Mount Suribatchi. The first flag raised was deemed too small for the US troop to see. For the 2nd raising, a much larger American flag was retrieved for the flag raising and the subsequent iconic photo of it was widely distributed.



The 6 US Marines in the 2nd flag raising were identified as:

1. Sergeant Henry Hansen, later revised in 1947 to Cpl. Harlon Block (KIA)
2. Cpl. Rene Gagnon later revised in 2019 to Pfc. Harold Keller.
3. Pfc. Franklin Sousley (KIA)
4. Sgt. Michael Strank (KIA)
5. Navy corpsman John Bradley later revised in 2016 to Pfc. Harold Schultz.
6. Pfc. Ira Hayes

In 1945 Cpl Harlon Block's mother, Mrs.Belle Block refused to accept the official identification, noting that she had "changed so many diapers on that boy's butt, I know it's my boy." In 1946 Belle received additional documentation from Pfc. Ira Hayes and then lobbied her congressman to revise the identification and upon further research (determined by looking at Brock's parachutist boot worn that day) the Marine Corp revised it replacing Sergeant Henry Hansen with Cpl Harlon Block's name in 1947.

In 2014 both amateur historians Eric Krelle and Stephen Foley studying multiple Iwo Jima pictures taken that day; determined that John Bradley participation should be revised to Pfc. Harold Schultz uniquely identified by a single hanging helmet strap/torn section of helmet cloth. In 2016 the US Marine Corp completed the investigation and accepted the revision.

In 2019 the Marine Corp revised Pfc. Harold Keller name replacing Cpl Rene Gagnon. This was done largely due to the efforts of Stephen Foley, filmmaker Dustin Spence, and Brent Westemeyer who noted that Keller was wearing a wedding ring and the absence of a facial mole whereas Gagnon was not married at the time. Plus there were distinct creases on Keller's helmet, the positioning of his shirt collar, and the way he carried ammunition all pointed to Pfc. Harold Keller participation of the 2nd flag raising.

After the 2019 revision the US Marine Corp stated:

> "Regardless of who was in the photograph, each and every Marine who set foot on Iwo Jima, or supported the effort from the sea and air around the island is, and always will be, a part of our Corps' cherished history," the statement adds. "In the words of General David H. Berger, Commandant of the Marine Corps, 'They are all heroes.'

Yes, in February 1945 on Iwo Jima the clashing of both powerful American and well prepared Japanese armed forces performed with heroic distinction amiss the human tragedy

By the way both the smaller and larger US flags raised in February 1945 on Mount Suribachi, Iwo Jima are on display at the National Museum of the Marine Corps in Triangle, Va.

Reference material:

https://www.marinecorpstimes.com/news/your-marine-corps/2019/10/17/another-marine-was-misidentified-in-iconic-iwo-jima-flag-raising-photo-corps-says/

http://www.5thmarinedivision.com/flag-raisers.html

https://en.wikipedia.org/wiki/Raising_the_Flag_on_Iwo_Jima

Tech Article Intro

Isotropic Systems has announced software-defined, multi-beam customer edge terminal antennas compatible with O3b mPOWER is in its final stage of protoyping. It will interface with the commercial launch of the terminals with the O3b mPOWER Medium-Earth Orbit (MEO) system in 2022.

The goal will be to utilize Non-Geostationary Orbit (NGSO) *Satellite* constellations for enhanced communications connectivity between thousands of satellites, to tens of thousands of satellites, operating in different frequencies and different orbit.

This enhanced satellite communications will allow bi-directional high speed connectivity with Ka and Ku band broadband satellites.

Subset of Microwave Frequency Bands Available For Satellite Communications
https://www.slideshare.net/waqas1234/satellite-bands-presentation

Band	Frequency Range	Wave Length	Total Bandwidth	General Application
L	1 to 2 GHz	30 to 15 cm	1 GHz	Mobile Satellite service (MSS)
S	2 to 4 GHz	15 to 7.5 cm	2 GHz	Mobile Satellite service (MSS), NASA, and deep space research
C	4 to 8 GHz	7.5 to 3.75 cm	4 GHz	Fixed satellite service (FSS)
X	8 to 12.5 GHz	3.75 to 2.4 cm	4.5 GHz	Fixed satellite service (FSS) military, terrestrial earth exploration and meteorological satellites

Ku	12.5 to 18 Ghz	2.4 to 1.67 cm	5.5 GHz	Fixed satellite service (FSS) and Broadcast Satellite Service(BSS)
K	18 to 26.5 Ghz	1.67 to 1.13 cm	8.5 GHz	Broadcast Satellite Service (BSS) and Fixed Satellite Service (FSS)
Ka	26.5 to 40 Ghz	1.13 to 0.75 cm	12.5 GHz	Fixed Satellite Service (FSS)

https://www.satellitetoday.com/ground-systems/2020/04/22/isotropic-systems-ceo-shares-roadmap-to-holy-grail-of-antenna-connectivity/

https://www.spaceacademy.net.au/spacelink/radiospace.htm

See the full tech article for additional information.

ARRL Field Day

This June 27-28, 2020 is ARRL Field Day.

Based up guidelines from the ARRL organization; Ed Fong, thee Cathay Radio Club and the SARES radio club will not be getting together to host a joint ARRL field day.

Instead we will practice social distancing and will operate our HAM radios from our homes on ARRL field day.

For additional information see the following ARRL website:
http://www.arrl.org/news/field-day-2020-a-time-to-adapt

Additional Thoughts

I wish to thank our CARC members that set aside their valuable time to participate in our Monday night's nets.

Chat sub s'em to all you CARC members! - George W6BUR.

Public Service Announcements

HAM CRAM / HAM Licensing

For upcoming HAM Licensing locations please refer to:
http://www.arrl.org/find-an-amateur-radio-license-exam-session

Auxiliary Communications Service (ACS)

The Auxiliary Communications Service (ACS) was organized by the San Francisco Office of Emergency Services (OES) following the 1989 Loma Prieta Earthquake to support the communications needs of the City and County of San Francisco when responding to emergencies and special events.

The Auxiliary Communications Service holds General Meetings on the third Tuesday of each month at the San Francisco Emergency Operations Center, 1011 Turk Street (between Gough Street and Laguna Street), from 1900 hours to 2100 hours local time. All interested persons are welcome to attend.

The ACS Net begins at 1930 hours (7:30 p.m.) local time each Thursday evening, on the WA6GG repeater at 442.050 MHz, positive offset, tone 127.3 Hz. The purpose of this net is to practice Net Control skills, practice checking in with deployment status in a formal net, and to share information regarding upcoming ACS events. Guests are welcome to check in. ACS Members should perform Net Control duty on a regular basis. On the second Thursday of each month, the net will be conducted on the output frequency of the WA6GG repeater, 442.050 MHz no offset, tone 127.3 Hz, simplex.

For more information, please attend an ACS meeting or check in on a net, or call 415-558-2717.

Upcoming meetings: TBD Pending COVID-19 Updates

Gilbert Gin (KJ6HKD)

Free Disaster Preparedness Classes In Oakland:
http://www.oaklandnet.com/fire/core/index2.html

CORE is a free training program for individuals, neighborhood groups and community-based organizations in Oakland. The underlying premise is that a major disaster will overwhelm first responders, leaving many citizens on their own for the first 72 hours or longer after the emergency.

If you have questions about the recertification process, you may contact the CORE Coordinator at 510-238-6351 or core@oaklandnet.com.

Free Disaster Preparedness Classes In San Francisco – NERT Taught by San Francisco Fire Department (SFFD).

http://sf-fire.org/calendar-special-events

Upcoming events TBD

***SFFD DOT** is the Fire Department Division of Training. All participants walking, biking or driving **enter through the driveway gate on 19th St.** between Folsom and Shotwell. Parking is allowed along the back toward the cinderblock wall.

Visit ***www.sfgov.org/sffdnert*** to learn more about the training, other locations, and register on line. Upcoming Special NERT Events.

San Francisco Police Department: Auxiliary Law Enforcement Response Team (ALERT)

The Auxiliary Law Enforcement Response Team (ALERT) is a citizen disaster preparedness program designed. The ALERT program is for volunteers 16 years of age or older, who live, work, or attend high school in San Francisco.

Graduates of the San Francisco Police Activities League (P.A.L) Law Enforcement Cadet Academy are also eligible to join.

ALERT volunteers will no longer need to complete the Fire Department's Neighborhood Emergency Response Team (NERT) (www.sfgov.org/sfnert) training and then graduate into two 8 hour Police Department course specifically designed for ALERT team members.

ALERT members will work closely with full-time and/or Reserve Police Officers in the event they are deployed after a disaster. The Basic ALERT volunteer will have no law enforcement powers other than those available to all citizens.

SFPD ALERT Training (New Members)

The next SFPD ALERT training class has been scheduled for **TBD**. The class will be held at the San Francisco Police Academy, in the parking lot bungalow, from 8am-5pm (one hour lunch break) on Saturday.

* Class date indicated are only for new members

IMPORTANT- All participants must complete the background interview process in order to be eligible to attend the ALERT training class.

Eligible ALERT participants may register for a training class by contacting the ALERT Program Coordinator, Marina at sfpdalert@sfgov.org, or by telephone at 415-401-4615.

SFPD ALERT Practice/Training Drill

All active/trained ALERT members are asked to join us for our next training drill, scheduled for on **TBD** from 9 AM – 1pm. Details will be emailed to active ALERT members, prior to the date of the exercise. Participation is not required, but strongly encouraged.

For more information on the San Francisco Police Department ALERT Program, email us at sfpdalert@sfgov.org, or call Lt. Marina Chacon (SFPD Ret.), SFPD ALERT Program Coordinator, at (415) 401-4615.

For additional information on the web please refer to:
https://sfgov.org/policecommission/alert

Tech Article

PRESS RELEASE – 5/17/2020

U.S. Defense Innovation Unit Awards Antenna Development Project with Isotropic Systems to Trial Optical Beamforming Technology for Naval Communications

https://www.isotropicsystems.com/news-3/2020/5/17/us-defense-innovation-unit-awards-antenna-development-project-with-isotropic-systems-to-trial-optical-beamforming-technology-for-naval-communications

Isotropic Systems' multi-beam terminals to be prototyped for challenging environments at sea

Reading, UK – 18 May, 2020 – Isotropic Systems, a leading developer of transformational broadband terminal technologies, today announced an antenna evaluation and development contract with the Defense Innovation Unit (DIU) to test the ability of its patented multi-beam antennas to unlock high-powered bandwidth aboard next-gen Naval vessels at sea.

As the U.S. Navy expands the size and communications capabilities of its global fleet, the DIU is reviewing Isotropic Systems' patented beamforming antenna technologies and circuits as an enabler to fuse multi-band, multi-orbit commercial and military capacity to deliver intelligence data at the tactical edge over a single platform.

The collaboration contract is focused on the delivery of a low-profile, high performance, affordable and customizable antenna to support multiple links over multiple bands of satellite capacity, including S-, C-, Ka-, Ku-, X-, and Q-band connectivity, to open up a new world of real-time government communications and connectivity.

DIU will prototype and analyze the performance of Isotropic Systems' resilient optical beamforming terminals during an extensive series of environmental and interference chamber tests throughout 2020. Teams will measure the impact of harsh elements, such as intense winds, salt water, and electromagnetic interference (EMI), in preparation for installations aboard new-age Navy ships.

Isotropic Systems' high-performance terminal features optical lens modules that are conformal to the limited real estate aboard Navy ships, providing an antenna design that delivers seamless make-before-break switching between satellites in multiple orbits,

and continuous connectivity during turbulent pitch-and-roll conditions facing vessels traversing rough seas.

“Isotropic Systems has cracked the code for a new age of seamless and secure connectivity and communications in some of the most challenging conditions facing government agencies and military operations around the globe,” said John Finney, CEO and Founder of Isotropic Systems. “This important effort is potentially a major milestone that will ultimately lead to ultra-high-speed data delivery and real-time national security advantages that come with integrated government networks. We will enable the Navy, and other government forces and agencies, to arbitrage all the capacity it needs from across low-Earth, geosynchronous- equatorial and medium-earth orbit constellations over a single multi-beam platform.”

DIU collaborative terminal reviews with Isotropic Systems will begin in the lab and may ultimately lead to milestone evaluations aboard U.S. Navy ships.

Isotropic Systems is developing the world’s first multi-service, high-bandwidth, low power, fully integrated range of high throughput terminals designed to support the satellite industry to 'reach beyond' traditional markets.