

Cathay July 2024

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, As of 8/21/2023 we are switching over from using Repeater: WB6TCS to **Nick Cassarino's Repeater: WA6GEL UHF 444.80000 Mhz, Offset +5Mhz, CTCCS/Tone PL 179.9 Hz on Monument Peak, Milpitas.**

If you cannot reach the fore-mentioned machine, please use WA6GEL UHF 4448.8 Mhz Offset +5Mhz, CTCCS/Tone PL173.8 which is on Mt. San Bruno.

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

Message on Behalf of the President: Leonard Tom, *NX6E*

Hello CARC Members and Friends;

Many thanks to Nick Cassarino for the use of repeater – WA6GEL for our CARC Monday Night Net.

Additional folks are needed to help out with conducting the CARC radio net on Monday nights. Please contact Ed Fong (edison_fong@hotmail.com) if you are interested.

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

Sent by Ed Fong, below is a picture of George Chong's (W6BUR) memorial held on Saturday 7/20/2024



From Left to right: Wesley Wong KD6WDX, Gary Ferstrom WA6CNS (back row, gray shirt), Christina Gin KE6FOX (just behind Hetty, gray and white shirt), Hetty Chong WB6SHU (seated), Cyrus Moy AE6CY (Back row, gray shirt), Howard Louie N6MNV (back row, white shirt and black tie), Edison Fong WB6IQN (next to Hetty in white polo shirt), Nelson Doon AD6XZ (back row in gray polo shirt, Gary Gin KJ6HKD (in gray shirt), and Bob Lai – KM6QP (on the very right end with black polo shirt)

Introduction Tech Article:

Nicked name Earth's 2nd moon, Kamo'oalewa, in 2016 a quasi-moon asteroid was discovered in near earth orbit.

For more about earth's 2nd moon, see Tech Article for further information.

Additional information: https://en.wikipedia.org/wiki/469219_Kamo%CA%BBoalewa

Introduction to CARC/SARES ARRL Field Day Summary Write Up

Pictures and post CARC/SARES ARRL event write up are at the bottom of this newsletter.

CARC Final News Wrap Up

Chat sub s'em to all you CARC members! - Leonard Tom, NX6E

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) is a unit of trained professionals who supply communications support to the agencies of the City and County of San Francisco, particularly during major events/incidents. ACS goals are the support of gathering and distribution of information necessary to respond to and recover from a disaster.

The ACS Net begins at 1930 hours (7:30 p.m. PT) 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 perform Net Control duty on a regular basis. On the second Thursday of each month, the net is conducted in simplex mode on the output frequency of the WA6GG repeater, 442.050 MHz no offset, tone 127.3 Hz.

ACS holds its General Meetings on the third Tuesday of each month from 1900 hours to 2100 hours local time. Currently meetings are exclusively conducted over Zoom during the COVID-19 pandemic, ACS looks forward to meeting in person again as soon as possible.

Upcoming meeting dates in 2024 are:

- Aug 20, 2024
- Sept 17, 2024
- Oct 15, 2024

Location of in person future ACS meetings are yet to be determined as the regular location is under reconstruction. All interested persons are welcome to attend. For further information contact Corey Siegel KJ6LDJ <kj6ldj@gmail.com>.

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

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

<https://sf-fire.org/nert/nert-calendar-meetings-trainings-events>

Training Classes

TBD

+ Recertifications

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

*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.chacon@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, via scheduled for on TBD

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

<https://www.bbc.co.uk/newsround/68931224>

'Second moon': Origin of mysterious near-Earth asteroid revealed

Published May 1, 2024



New research links an asteroid to the Giordano Bruno crater on the far side of the Moon

Scientists have discovered that Earth's 'second moon' is actually a piece of rock that they say comes from the original Moon.

It's called Kamo'oalewa and, despite its nickname, isn't really a moon at all. It's a near-Earth **asteroid**, given the title of 'second moon' as it appears to orbit the Earth but is actually orbiting the Sun at the same time as Earth.

Research published in Nature Astronomy found that Kamo'oalewa likely came from a lunar crater on the far side of the Moon.

Scientists think that Kamo'oalewa became dislodged when an asteroid hit the Moon at some point between 1 million to 10 million years ago, leaving the crater behind.



Kamo'oalewa was first spotted in 2016 by astronomers at Pan-STARRS 1, a telescope built to spot asteroids that's based on the volcanic mountain of Haleakalā in Hawaii

What is the second moon?

Kamo`oalewa is a Hawaiian word that roughly means 'the oscillating celestial fragment' - much nicer than its technical name of asteroid 2016 HO3!

Scientists estimate that it's 40m to 100m wide - around the size of the Statue of Liberty.

In 2021, scientists at the University of Arizona looked at telescope images and found that it [the asteroid was similar to lunar rock brought back by the 1970s Apollo missions](#), making them think that it might come from the Moon.

The new research that gives more evidence for Kamo`oalewa's origins as a fragment from Earth's moon. Additional evidence was done with lots of maths, using simulations to model which lunar crater might have once had the rock lodged inside it.

They found that the Giordano Bruno crater would be the most likely source, as its size and shape matches the models.

This moon theory fragment will be tested out by the upcoming Tianwen-2 Chinese space mission, which is aiming to visit the asteroid to collect samples for further study.

CARC/SARES ARRL Field Day 2024, Summary Write Up by Ed Fong - *WB6IQN*

In a repeat of last year's field day event, the sunny weather was perfect for the CARC/SARES ARRL Field Dinner that was held on the Saturday afternoon of June 24, 2024 at the Fairbrae Swim & Racquet Club in Sunnyvale.

The CARC/SARES ARRL field day dinner was well attended with 52 folks registered and many other folks as non-registered.

Over the 2 days of the CARC/SARES ARRL field day, our official ARRL field contact was 1,590, this was a very respectable score and the highest we have ever done. The score will be posted in a future edition of QST.

Many thanks to Ed Fong--*WB6IQN*, Sharadon Fong, Tessa Fong - *KJ6QXM*, Howard Louie-- *N6MNV* (photographer), Ron Quan- *KI6AZB* (photographer) and others for the logistical support.

The Italian theme food spread was very well received The lasagnas (eggplant and cheese) were among the favorites. Additional whole pizzas were brought out during the evening dinner.

Our field day recorded the most contacts we have every made The official results of the ARRL Field Contacts are on the following page.

Entry received at: 2024-06-28 05:21:27 UTC

Submitted by: Edison Fong, WB6IQN E-mail: edison_fong@hotmail.com

Call Used: K6SNY GOTA Station Call: (NONE) ARRL/RAC Section: SCV Class: 2A

Participants: 54 Club/Group Name: SARES - Sunnyvale Amateur Radio Emergency Service

Power Source(s): Generator

Power Multiplier: 2X

Preliminary Total Score: 1,590

Bonus Points:

Bonus	Points	Status
100% emergency power	200	
Public location	100	
Public information table	100	
Natural power QSOs completed	100	File [field_day_2024_natural_power.docx] previously uploaded
Site visit by invited served agency	100	
Educational activity	100	
Safety officer	100	File [field_day_2024_safety_letter.docx] previously uploaded
Social media	100	
Entry submitted via web	50	
Total bonus points	950	

Score Summary - File [field_day_log_2024.pdf] previously uploaded

	CW	Digital	Phone	Total	
Total QSOs	84	0	152		
Total Points	168	0	152	320	Claimed Score = (QSO points x power mult) = 640

The following is a list of the raffle prizes and the raffle winners:

- | | |
|--------------------------------|------------------------|
| Digital 150 MHz scope | Cliff Shak KH6IKL |
| ATS20 HF receiver | Benedict Chua KN6WSI |
| MFJ 30 power supply | Bertrand Achrd KN6YUY |
| MFJ SWR wattmeter | Jerry Thalls KH6HI |
| Mil spec flashlight | Tad Kuwano KD6EFH |
| Cambridge Sound Works speakers | Bertrand Achard KN6YUY |
| digital Multimeter | Thomas Leibold KK6FPP |
| USB solar pack | April Slauch |
| 48 AA batteries | Adrian Motamedi K3ADM |



The Italian theme main course dishes



The deserts dishes



A lovely decorated ARRL Field chocolate dessert cake that was shared among all the Field Day attendees



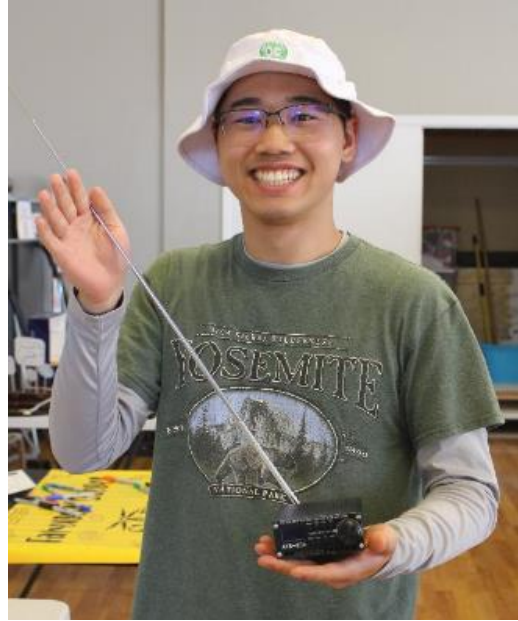
Sharadon Fong, handling the collection of raffle tickets and raffle prizes



Additional Raffle prizes



Clifton Shak - KH6IKL, Winner of the grand prize: DSO3D12 3.2 Inch Desktop 3 in 1, 120 MHz dual trace scope Digital Oscilloscope



Benedict Chua - KN6WSI Winner of the ATS 20+ all mode HF receiver.



Jerry Thalls - KG6HI winner of MFJ SWR/RF wattmeter



Tad Kuwano – KD6EFH winner of the milspec LED flashlight



Bertrand Achard KN6YUY – MFJ 30 amp power supply



Bertrand Achard KN6YUY - winner of the Baofeng UV5R dual band hand held. Yes a double winner.



We still had time to operate and scored 1590 points. Here is Wolfgang Polak AI6SL (left) and Robert Goodwyn KN6VMW (right).



Left to right: Sharadon Fong and Tessa Fong - KJ6QXM



Left to right: Ron Quan – KI6AZB, Tad Tuwano KD6EFH, and Howard Louie N6MNV



Marv Wahl W6FUV operating and making HAM contacts.



Ed Fong WB6IQN showing the NanoVNA during raffle



Wolfgang Polak AI6SL, operating radio and making contacts.



Left to right: Wesley Wong KF6WDX and George Martin WA6UUJ



Right side Rad Lee N6TIG Walter Chang AG6FK



Left to right: Roger Pease KR6PPI , Joann Rieke KN6AMZ, Cindy Spencer KN6ANA, and Guest.



Left to right: Guest 1, Jordon Makeover WA2BRV, Joy Robins N6GO, and Guest 2



Left to right: Steve Bennett KK6VCO, Lorretta Keller WB6BWQ, Field Day Guest, and Jerry Thalls KG6HI



Left to right: Dan Melick KM6DR, George Martin WA6UUJ, Field Day Guest



Field Day Guests, enjoying the food.



Center Tim Minnis WB6HYD, amongst other Field Day Guests.



Left to right: Guest 1, Guest 2, Amanda KM6OJU, Thomas Daede KC0UTJ, and Thomas Leibold KK6FPP



Left to right: Field Day Guest, Bennett Chua KN6WSI, Cliff Shak KH6IKL, and Terry Nakashima WB6PVU



In the background is the packed Field Day dining hall.

Left to right foreground: Jordon Makeover WA2BRV and Roger Pease KE6PPI



Tessa Fong KJ6QXM in front of the raffle prizes selling raffle tickets to Tom Minnis WB6HYD.

I will be seeing to you folks at next year's ARRL CARC/SARES Field Day Event.

Ed Fong - *WB6IQN*