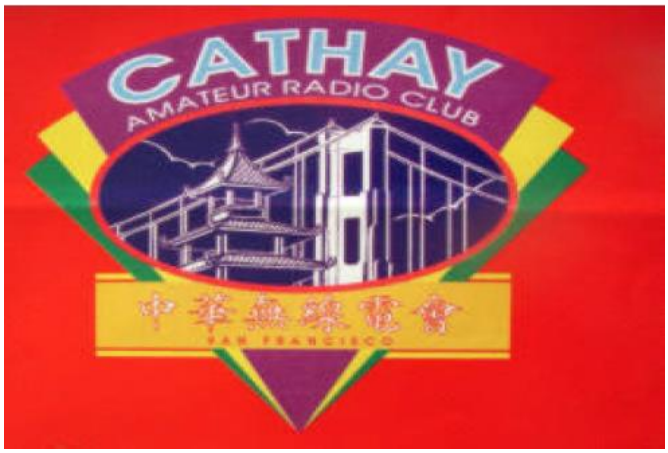

Cathay May 2019

www.cathayradio.org

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Treasurer: Vince Chinn aka Mingie, *W6EE* - **email:** vince@vincechinncpa.com
Web Master: Edison Fong – *WB6IQN* - **email:** edison_fong@hotmail.com
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.

Tech Article Introduction

Lighter than aircraft have been around since 1783. The first untethered manned hot air balloon flight was performed by Jean-François Pilâtre de Rozier and François Laurent

d'Arlandes on November 21, 1783, in Paris, France. The flight covered approximately 5.5 miles and lasted about 25 minutes.

During the American Civil War, the Union forces used manned balloons to observe Confederate troop movements. The dirigible balloon is a refined variant of the lighter than air aircraft with its cigar shaped configuration that is steerable and has one huge advantage over other types of aircraft, that of having persistence over a given location. The dirigible balloon has always been considered as ideal platform for radio communications acting like a mini-satellite in geostationary orbit.

Now fast forward to the modern dirigible where a UK team is working toward refining it with solar cell and battery powered version that can alter its buoyancy and require no fuel to move about. Please read the Tech Article Section for further information.

CARC Luncheon Announcement

I know many of our CARC members were very disappointed when we were not able to host the CARC Annual Chinese New Year Luncheon – Year of the Boar due to the closure of Kome Restaurant in Daly City.

We could not secure a new restaurant in a timely manner that met our hosting requirements:

1. Require a private room needed for our raffle prizes.
2. Buffet choices of different foods.
3. Good quality food
4. Conveniently located and with parking.
5. Moderate prices.

Well the Good New is: Ed Fong - WB6IQN has taken the initiative on behalf of the CARC and reserved a large private room (can handle 30 or more folks) at **Harry's Hofbrau in Redwood City** to host a CARC luncheon at 12 noon on Saturday May 11, 2019.

Also, this venue makes payment easy because at the end of the buffet line is the casher where money is collected by the restaurant, no exact change required.

We will not require that the members reserve a seat at the luncheon. However, to help us with planning, please email (Ed Fong - edison_fong@hotmail.com) if you are attending. Looking forward to seeing the club membership and getting caught up.

Additional details are at the end of this newsletter.

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: Tuesday 7pm, May 21, 2019
Tuesday 7pm, June 18, 2019
…… Tuesday 7pm, July 16 2019

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.

Upcoming events

May
8 NERT Quarterly --- All NERTs welcome
12 Ham Radio Practice -- 2MCM
No RSVP needed. Meet at Spreckels Lake in Golden Gate Park at 10am
19 NERT Training Day - Third Saturday

June
8 2MCM Ham Radio practice
No RSVP needed. Meet at Spreckels Lake in Golden Gate Park at 10am
15 NERT Training Day - Third Saturday
Featured Trainings:
Coordinators Corner - for Neighborhood Coordinators and those interested
TBD

July
12 Ham Radio Practice -- 2MCM
No RSVP needed. Meet at Spreckels Lake in Golden Gate Park at 10am
20 NERT Training Day – Third Saturday
Featured Trainings:
Coordinators Corner - for Neighborhood Coordinators and those interested
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 first complete the Fire Department's Neighborhood Emergency Response Team (NERT) (www.sfgov.org/sfnert) training and then graduate into an 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

The next SFPD ALERT training class has been scheduled for Saturday June 1, 2019 and Saturday, September 28, 2019. 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 who have not completed either SFFD NERT training or the SFPD Community Police Academy.

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, Mark Hernandez, 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 9:00 am – 1:00pm Saturday May 4, 2019. 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 Sergeant Mark Hernandez (SFPD, Ret.), SFPD ALERT Program Coordinator, at (415) 401-4615.

For additional information on the web please refer to:
http://sf-police.org/index.aspx?page=4019

Tech Article:

University of the Highlands and Islands Perth College

UK team trials new ultra-endurance air vehicle

Tuesday 23 April 2019

https://www.perth.uhi.ac.uk/news/uk-team-trials-new-ultra-endurance-air-vehicle--.html

A group of UK experts has successfully flown the first ever large-scale aircraft powered by variable-buoyancy propulsion. The Phoenix is designed to repeatedly transition from being lighter than air to being heavier than air so thrust is generated to propel the craft forward.

Variable-buoyancy propulsion is used in underwater remotely operated vehicles, but has never before been harnessed for large aircraft. The system means the uninhabited vehicle is self-sufficient in energy so could, in theory, be operational for an unlimited period of time, an innovation which could revolutionise the telecommunications industry.


Professor Andrew Rae

The team behind the ultra-long endurance autonomous aircraft includes representatives from academia and industry. Andrew Rae, Professor of Engineering at the University of the Highlands and Islands Perth College UHI Campus, led the design of the aeroplane.

He explains: “The Phoenix spends half its time as a heavier-than-air aeroplane, the other as a lighter-than-air balloon. The repeated transition between these states provides the sole source of propulsion.

“The vehicle’s fuselage contains helium to allow it to ascend and also contains an air bag which inhales and compresses air to enable the craft to descend. This motion propels the aeroplane forwards and is assisted by the release of the compressed air through a rear vent.

“This system allows the Phoenix to be completely self-sufficient. The energy needed to power its pumps and valves is provided by a battery which is charged by lightweight flexible solar cells on its wings and tail.

“Vehicles based on this technology could be used as pseudo satellites and would provide a much cheaper option for telecommunication activities. Current equivalent aeroplanes are very complex and very expensive. By contrast, Phoenix is almost expendable and so provides a user with previously unavailable options.”

The prototype aeroplane, which is 15 metres long and has a wingspan of 10.5 metres, was flown successfully and repeatedly over a distance of 120 metres during indoor trials at the Drystack facility in Portsmouth in March. The test flight was the culmination of a three-year project to prove the viability of a variable-buoyancy powered aircraft.

The Phoenix team are now exploring collaborations with major manufacturers to take the technology to the next phase of development. The project has been part-funded by Innovate-UK, the UK’s Innovation Agency, through the Aerospace Technology Institute.

The University of the Highlands and Islands offers a range of aircraft engineering programmes and pursues research activities across the aerospace sector and in motorsport. The Perth College UHI Dunne Aeronautical Laboratory gives students access to state-of-the-art learning and research facilities in aerodynamics, propulsion and flight. These include a large flight simulator, gas-turbine rig and wind tunnels.

View a video of the Phoenix trials.

CARC Luncheon Announcement

By Edison Fong

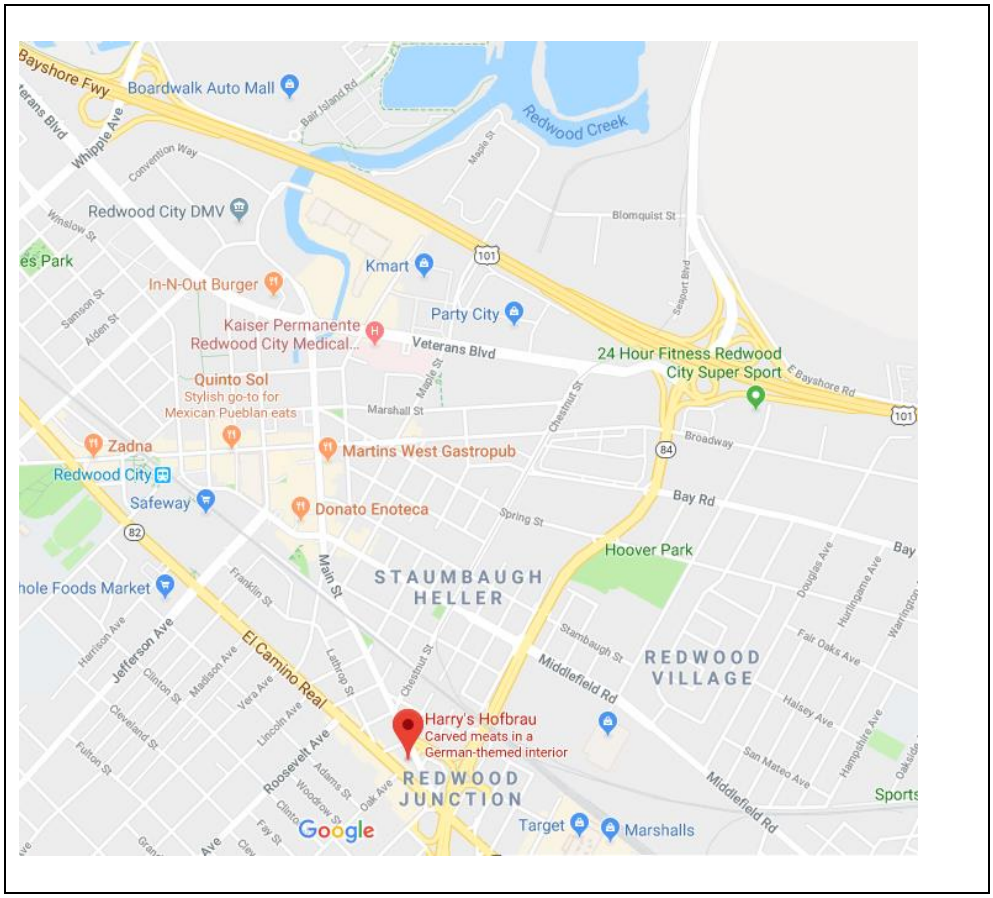
Harry's Hofbrau in Redwood City
1909 El Camino Real, 94063
650-366-3733

Saturday - May 11, 2019

Our Harry's Hofbrau meeting will be held on Saturday May 11, 2019 right after the DeAnza Swap Meet. We will meet around 12 noon

Directions

From 101 in Redwood City take the Woodside Road exit. This is also known as Highway 84. It only goes towards the mountains and not towards the Bay. Go about 1 mile on Woodside and you will approach El Camino Real and Woodside. Harry's Hofbrau is on the corner of Woodside and El Camino. Woodside Road will be an overpass over El Camino so you can either exit before or after the overpass. Either way will get you back to the corner of El Camino and Woodside Rd. If you can't make the meeting, you can still buy a raffle ticket to support the club. Just call me (Ed Fong 408-245-8210) or email: edison_fong@hotmail.com.



Harry Hofbrau has a long tradition of hosting the Cathay Radio Club. They have been at this location since 1954. They have a great private room (we get it for the entire afternoon – free) and their food is just superb with something for everyone. Food is served cafeteria style and just done to perfection from the roast beef to the apple pie. On Facebook they are rated a 4.6/5. If you have not been to this place, don't pass up this chance. Restaurants like this are quickly disappearing because real estate developers are purchasing the properties and building multi story condos and making millions. This is why their San Jose location closed. Not for the lack of business but the owner of the property wanted to sell out.

This place has something everyone. For under $10 you could pick up a great sandwich. I always look forward to their open face turkey sandwich with gravy over sourdough bread. An entire meal with all the trimmings for under $10 (some exception like prime rib are more). A complete 10oz. prime rib dinner is only $16.49.

We can discuss Field Day Plans and we will have a great raffle.

Here are some of the prizes. Winner gets their choice of Quad Band 25 watt mobile or a Windows 10 tablet PC. If we sell enough tickets, we will give both away.

Radioddity QB25 (same as the QYT 7900SD) new Quad Mobile 25 watt transceiver.

This radio boast 200 memories, full software programmability, great bullet proof front end with 0.25 uV sensitivity, full FM broadcast radio, direct microphone key pad entry, absolutely the best color display out there and more.

If you have been looking to get on 220 MHz, this is the latest and greatest. You will be a proud owner of one of these radios.

Comes programming cable and programming software.

Full CTSS and DCS coding

Power – 10/25 watt (user programmable)

The Frequency coverage:

- 65-108 MHz – FM broadcast – receive only
- 136-174 MHZ – VHF – TX/RX
- 210-230 MHz - TX/RX
- 350-400 MHz TX/RX (not an amateur band in the US)
- 400- 520 - MHz - TX/RX

I will have this radio preprogrammed to most of the Bay Area VHF 2 meter, 220 MHz and 70cm repeaters. I will gladly edit channel list free of charge to the winner.

Windows 10 PC - This is a great little 10 inch tablet running Window 10. Runs on Intel Atom Quad Core processor. Windows Office Profession 2012 already loaded.

No need for Office 365 and paying monthly fees. Complete with 32G of SSD and expandable to 96G. Of course, built in camera, Wifi and Bluetooth.

50 ft of RG8x coax with molded PL259 connectors.

This is great light weight coax but yet is good up to 500 MHz.

The loss of the old RG8 but the size of RG58. Great for Field Day. Great for emergencies.

Having factory molded connectors beats the old crimping hands down for wear and tear.

6 inch Electronic Precision Caliper - Accuracy measurement down to 1/1000th of an inch. Large 4-digit LCD readout.

Lux Pro LED flashlight - The claim is that this is brightest flashlight in the world that runs on two standard D batteries.

Come and check it out, it is really bright. Great for your home or car.

It boost three mode (hi beam, normal, flashing)

Fully waterproof, it uses the CREE XP-G2 R5 LED (brightest LED in the world for its class)