

## Cathay April 2021

[www.cathayradio.org](http://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.

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

I also wish that our CARC member have a Happy Easter with family members.

## Vaccine requirement changes:

As of April 1, 2021 - The State (California) will equitably distribute a safe and effective vaccine to everyone in California who wants it. All Californians 50 or older are now eligible for vaccination. **Every Californian 16 and up will be eligible for vaccination on April 15, 2021.**

## How To Get A Free COVID-19 Vaccination Shot Without Being 50 and older.

Yes, the State of California is looking for volunteers to help with the COVID-19 vaccination sites and you may be eligible for a COVID-19 vaccine shot.

Note: Non medical-volunteers can sign up to assist with registration, administration support or as a site greeter.

Just get online and volunteer for at least 4 hours at website:  
<https://myturnvolunteer.ca.gov/s/landing>. Below is the website:

### Help us vaccinate California

Let's speed up COVID-19 vaccinations and save lives.

California Volunteers, Office of the Governor is calling on Californians to volunteer their time to help the state in its vaccination efforts. We need both medical and general support teams. Will you join us?

We need volunteers for a variety of activities from assisting people to learn about the vaccine, helping your neighbors sign up to get a vaccine, to volunteering at a clinic. We need you to take action today.

**Volunteer Opportunities at vaccination sites may not immediately be available in your area, but we will keep you up to date as more clinics request volunteers.**

Sign up here at My Turn - Volunteer.

Join your friends, neighbors and Californians across the state who are helping us #VaccinateALL58.

Register today to help us end the pandemic.

*Provide Your Contact Information*

**Important:** Vaccinations for volunteers may be possible, but are not guaranteed at any My Turn – Volunteer sites

[Browse events and shifts](#)

If you are an organization in need of volunteers for vaccine related activities, looking for FAQs or toolkits, seeking actions you can take from home, or would like to contact our team, please visit [www.californiavolunteers.ca.gov/MyTurnVolunteer](http://www.californiavolunteers.ca.gov/MyTurnVolunteer).

**A Distinguished CARC Member and Proud Father QST – Alon Yu (WA6GTY):**

A story with a special connection to CARC member, Alon Yu WA6GTY.



My dear daughter Krista Marie Yu, has been a regular on Tim Allen’s television series “Last Man Standing” the past 3 years.

Krista appears on the TV show as Jen, a foreign exchange student from Hong Kong living in his home. She is a TV and film actress based in Los Angeles for the last 10 years.

See Krista Marie Yu bio on IMDB  
([https://www.imdb.com/name/nm3934247/?ref=nmbio\\_bio\\_nm](https://www.imdb.com/name/nm3934247/?ref=nmbio_bio_nm)).

As you may know, Tim Allen is a real HAM radio operator, and that the KA6LMS station that appears on the “Last Man Standing” show is a real working station.

73, Alon Yu

**Editor’s Note:** Alon, thank you for share this lovely personal story with our CARC members. To other CARC members, please keeping those stories coming, we are more than just another HAM radio club, we are a family!

**Tech Article Introduction:**

This month’s tech article contains a brief write up on the Perseverance Mars rover.

Please see the Tech Article section,

**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

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

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

**+ April NERT Drill - Saturday April 17, 2021**

Spring into Readiness!

This Virtual Drill will take place from 9am-12pm with virtual skill rotations and words from some special guests!

Invitation and sign-up coming next week!

**+ Recertifications - Coming Soon!**

Now that San Francisco has entered the Red Tier for COVID-19 Transmission (see <https://covid19.ca.gov/safer-economy/#county-status> for more details), we are working to schedule recertification trainings for NERTs who were current as of December 2019 or later. Stay tuned for details and times over the next month! (At this time, all class 5&6 recerts will take place outdoors only, at the SFFD Division of Training at 19th St & Folsom St in the Mission.)

\***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](http://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](http://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

**#023-Day #1 New Volunteer Basic Class**

Saturday March 13, 2021 9 AM – 3 PM via ZOOM

**#023-Day #2 New Volunteer Intermediate Class\***

Saturday March 27, 2021 9 AM – 3 PM via ZOOM

**-#023-Day #3 Practicum & Graduation\***  
Sunday April 11, 2021, 9 AM – 1 PM (In-person)

**Principled Policing, Procedural Justice, and Implicit Bias Mandatory Training**  
(To Be Determined)

***(New ALERT volunteers must complete Day #1 FIRST. Training marked with an asterisk \* must be completed within 12 months of completing Day #1 to graduate.)***

The in-person classes will be held at the San Francisco Police Academy, in the parking lot bungalow, from 9am-1pm on Sunday April 11, 2021.

\* 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](mailto: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

**#028 Saturday 08/21/2021 9 AM – 1 PM by ZOOM**

**#029 Saturday 11/06/2021 (Night Exercise)**

For more information on the San Francisco Police Department ALERT Program, email us at [sfpdalert@sfgov.org](mailto: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

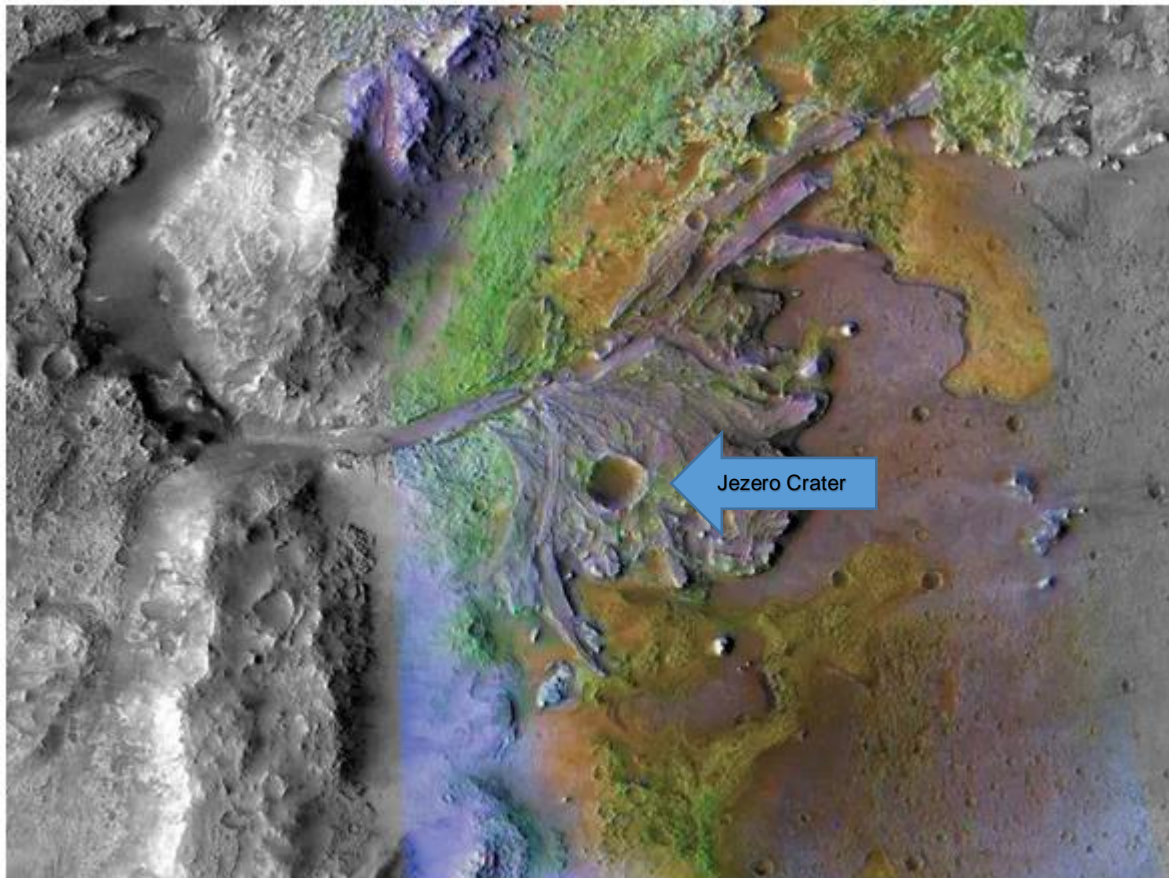
## NASA Mars Perseverance Rover Mission

By Rodney Yee  
04/03/2021

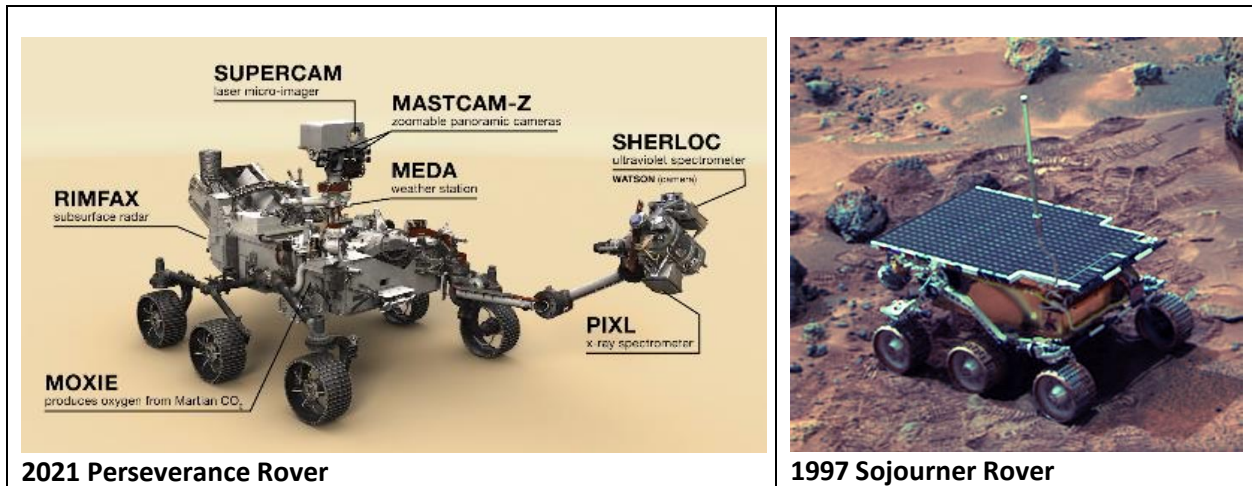
The continued exploration of the planet Mars has been one of the lofty goals within the planetary scientific community.

Another milestone toward that Mars exploration was with the July 20, 2020 successful launching of an Atlas V rocket carrying the 6,260 pound NASA Perseverance robotic rover.

After a 7 month (239 million miles) long journey, on February 18, 2021 Perseverance was successfully deployed and safely touch down within the 28-mile-wide Jezero Crater of Mars.



NASA will attempt to land its Mars 2020 nuclear-powered rover in Jezero Crater. [NASA/JPL-Caltech/MSSS/JHU-APL](#)



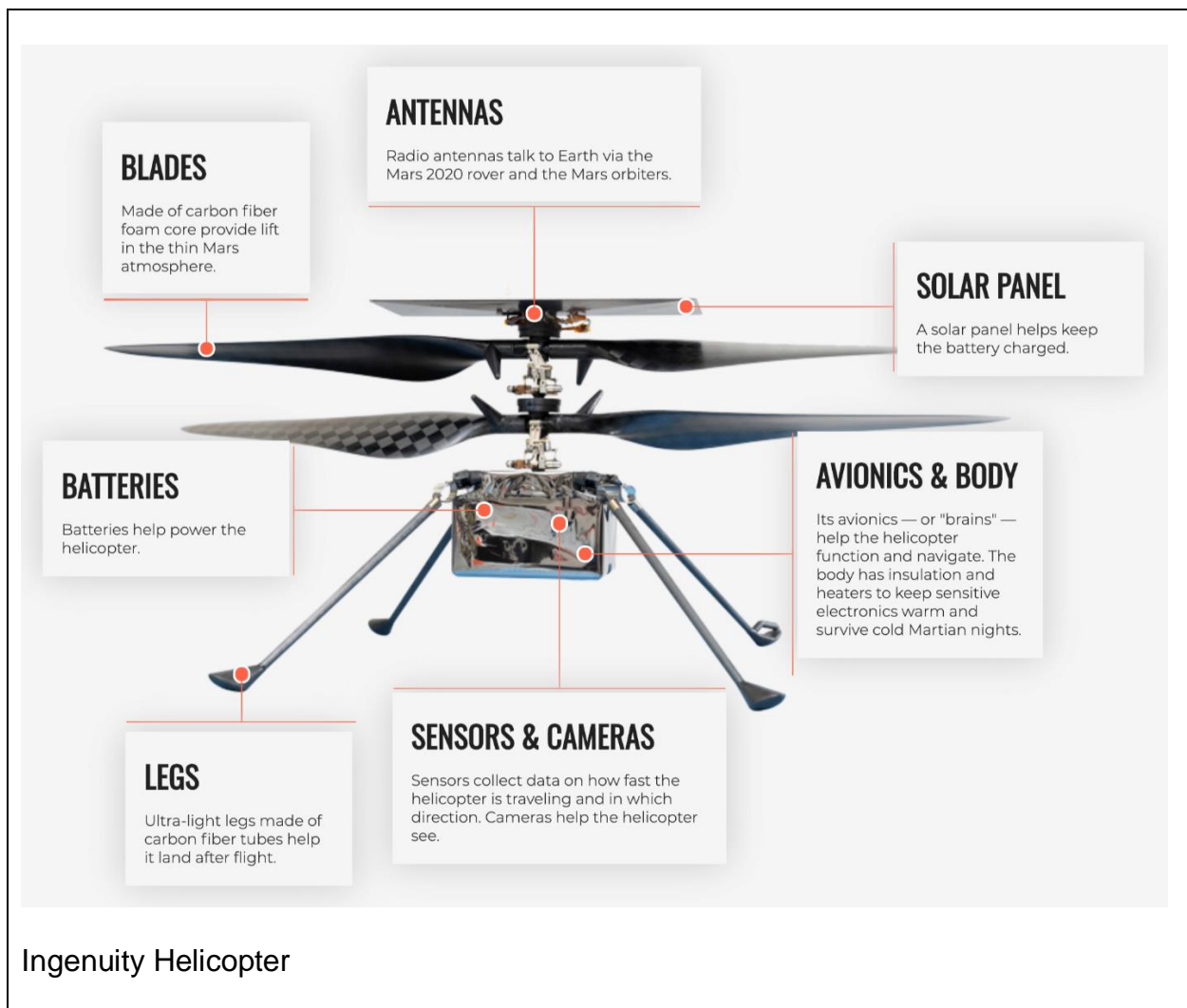
The size and capability of the nuclear powered Perseverance rover completely over shadows NASA first Mars rover the Sojourner that weighted only 25 pounds, the size of a shoe box and powered by [lithium-thionyl chloride](#) (LiSOCl<sub>2</sub>) batteries providing 150 watt hours.

The Sojourner lasted only 85 earth days before its power supply batteries were completely exhausted. Whereas the power source of the Perseverance is plutonium-238, which has a [half-life](#) of 87.7 year, producing 110 watts. To save on the cost of building the Perseverance rover, spare parts from the earlier Curiosity rover were used.

In the intervening 24 years between the two Mars rovers, the on-board computer processing power has many times has been vastly improved. Hence the Perseverance rover is a much more sophisticated and capable machine to study life on Mars. Among its many mission tasks is to collect soil samples, store it in sample tubes that will be piled up on the Martian surface for future retrieval and delivery to earth.

The Perseverance rover carries a special detachable payload: a 4 pound tiny coaxial helicopter named Ingenuity. It is a demonstration vehicle that is a proof of concept and therefore has a limited mission profile. The Ingenuity helicopter faces special challenges because the thin atmosphere on the surface of Mars is the equivalent of flying at altitudes well over 100,000 ft/18.93 miles above Earth.





It has only been 117 years (Dec 17, 1903) since the Wright brothers first flew a powered aircraft at Kill Devil Hills near Kitty Hawk, North Carolina.

Ingenuity is scheduled for first flight on Mars on April 8, 2021. It will be a historic first powered and controlled atmospheric flight of an aircraft on another planet. Ingenuity is the forerunner of follow on Martian aircrafts that will be much larger and more capable. With its ability to take off and land repeatedly over short distances at the height of 16 ft, it will be able to provide terrain ahead scouting for the Perseverance rover.

Due to the 22 minutes round trip time for a radio signal to travel between Perseverance and NASA mission control on Earth, artificial intelligence (AI) will play a big role in allowing the rover & helicopter to carry out its assigned missions.

For more information see:

- <https://www.nasa.gov/press-release/nasa-ingenuity-mars-helicopter-prepares-for-first-flight>
- <https://blogs.nasa.gov/mars2020/2021/02/18/blog-nasas-perseverance-has-landed/>