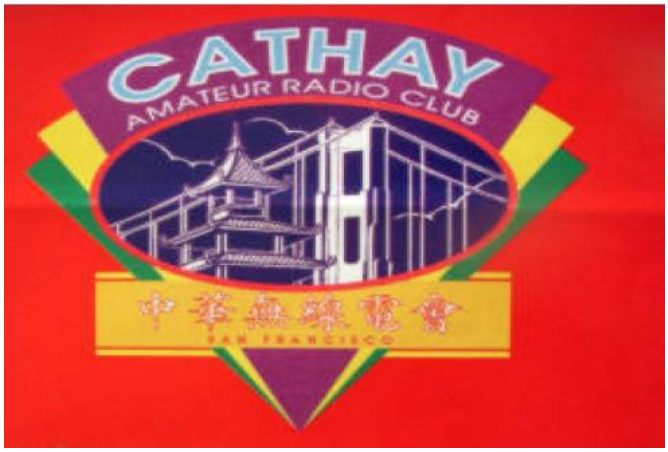


Cathay March 2023

www.cathayradio.org

President: George Chong, W6BUR **email:** *W6BUR@comcast.net*
Vice President North: Leonard Tom, *NX6E* **email:** nx6e@hotmail.com
Vice President South: Bill Fong, *W6BBA* - **email:** w6bba@arrl.net
Secretary/Membership: Rodney Yee, *KJ6DZI* - **email:** rodyee2000@yahoo.com
Editor: Rodney Yee, *KJ6DZI* - **email:** rodyee2000@yahoo.com
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 & his son: Mr Robert Moore for the use of their 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.

Silent Key

As you know from previous CARC newsletters about the passing of Mr. Denis L. Moore – WB6TCS back in Dec 2022. Many thanks to Cy Moy - AE6CY (formerly WB6TCF) for tracking down the information about the memorial service for Denis Moore as shown below:

From Cy Moy: additional information about the memorial for Denis Moore:

I received a note from Robert Moore stating: "It's a 4 hour drive up to Covelo from the Bay Area. He understands that the drive up to Covelo would be too much for most folks."

I did send their family a condolence card on behalf of our Cathay Radio Club.

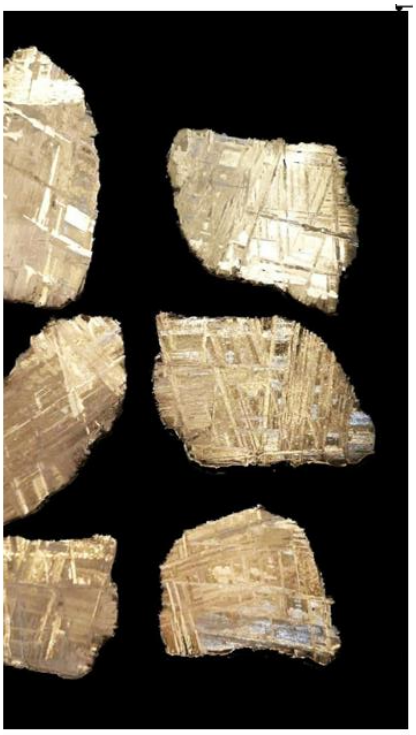
I google the map going up there to Covelo and its very winding road with only one lane in each direction.

Technical Article Introduction:

For all you Rock Hounds / Meteorite Collectors out there: An interesting article about the discovery of 3 new minerals contain in the iron meteorite, known as: El Ali meteorite. The origin date of the meteorite landing in Somalia is unknown but it was discovered by mineral prospectors in 2019. The El Ali meteorite was known to the locals for generations and was used to sharpen their metal tools upon the surface of the meteorite.

A small mining company, hoping to sell the 33,400-pound meteorite, removed it from its original location and exported it to China.

Photograph by Abdulkadir Abiikar Hussein, Almaas University



The weave-like pattern of the crystals seen in these slices of the El Ali meteorite is common for iron meteorites. But this meteorite contained a surprise: three new minerals never before seen in nature on Earth. ----- Photograph by Abdulkadir Abiikar Hussein, Almaas University

Please go to the Tech Article Section for additional details.

Final Thoughts

Many thanks to for the use of Mr. Robert Moore and Mr. Denis L. Moore (SK) – WB6TCS 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.

Stay healthy and keep yourself from catching COVID-19.

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

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 2023 are:

- TBD

Location of in person future ACS meetings is yet to be determined as the regular location is under reconstruction until further notice. 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).

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

TBD

+ Recertifications - Coming Soon!

Pre-register here!

https://www.eventbrite.com/e/are-you-a-nert-graduate-looking-to-recertify-pre-register-here-tickets-228380330717?aff=odcleoeventsincollection

This is not for a specific date or location.

San Francisco Fire Department NERT is collecting information from NERT Graduates to help us plan for the new year. By signing up here, you will receive priority notification about upcoming recertification opportunities. This is for any NERT graduate, regardless of when you graduated or whether your NERT certification has expired. Thank you so much for your commitment to NERT and for providing us with information about when you last trained, etc.

Sign Up For Training Classes, this is not for a specific date or location.

San Francisco Fire Department is collecting contact details from prospective students so we can let you know when classes are available. We will email you when classes become available. We plan on holding multiple trainings for new NERTs in 2023 and the information you provide will help us plan. Thank you!

https://www.eventbrite.com/e/never-taken-nert-before-let-us-know-you-are-interested-in-2022-trainings-tickets-125825993935?aff=odcleoeventsincollection

***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 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, 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

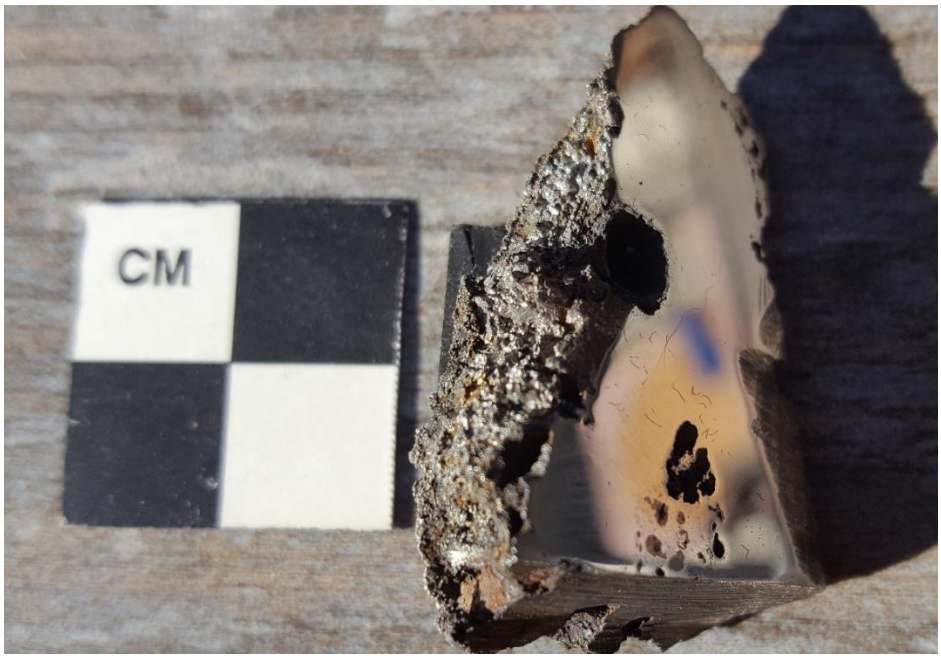
Tech Article:

New minerals discovered in massive meteorite may reveal clues to asteroid formation

U of A experts play key role in identifying and naming two substances never before seen on Earth.

https://www.ualberta.ca/folio/2022/11/new-minerals-discovered-in-massive-meteorite-may-reveal-clues-to-asteroid-formation.html

November 28, 2022 By Adrianna MacPherson



A sample of the El Ali meteorite (this sample now housed in the UCLA Meteorite Collection) contains two minerals never before seen on Earth. (Photo: Nick Gessler/Duke University)

A team of researchers has discovered at least two new minerals that have never before been seen on Earth in a 15 tonne meteorite found in Somalia — the ninth largest meteorite ever found.

“Whenever you find a new mineral, it means that the actual geological conditions, the chemistry of the rock, was different than what’s been found before,” says Chris Herd, a professor in the Department of Earth & Atmospheric Sciences and curator of the University of Alberta’s Meteorite Collection. “That’s what makes this exciting: In this particular meteorite you have two officially described minerals that are new to science.”

The two minerals found came from a single 70 gram slice that was sent to the U of A for classification, and there already appears to be a potential third mineral under consideration. If researchers were to obtain more samples from the massive meteorite, there’s a chance that even more might be found, Herd notes.

The two newly discovered minerals have been named elaliite and elkinstantonite. The first receives its name from the meteorite itself, dubbed the “El Ali” meteorite because it was found in near the town of El Ali, in the Hiiraan region of Somalia. Herd named the second mineral after Lindy Elkins-Tanton, vice president of the ASU Interplanetary Initiative, professor at Arizona State University’s School of Earth and Space Exploration and principal investigator of NASA’s upcoming Psyche mission.

“Lindy has done a lot of work on how the cores of planets form, how these iron nickel cores form, and the closest analogue we have are iron meteorites. So it made sense to name a mineral after her and recognize her contributions to science,” Herd explains.

In collaboration with researchers at UCLA and the California Institute of Technology, Herd classified the El Ali meteorite as an “Iron, IAB complex” meteorite, one of over 350 in that particular category.

As Herd was analyzing the meteorite to classify it, he saw something that caught his attention. He brought in the expertise of Andrew Locock, head of the U of A’s Electron Microprobe Laboratory, who has been involved in other new mineral descriptions including Heamanite-(Ce).

“The very first day he did some analyses, he said, ‘You’ve got at least two new minerals in there,’” says Herd. “That was phenomenal. Most of the time it takes a lot more work than that to say there’s a new mineral.”

Locock’s rapid identification was possible because the two minerals had been synthetically created before, so he was able to match the composition of the newly discovered natural minerals with their human-made counterparts.

Researchers are continuing to examine the minerals to determine what they can tell us about the conditions in the meteorite when it formed.

“That’s my expertise — how you tease out the geologic processes and the geologic history of the asteroid this rock was once part of,” says Herd. “I never thought I’d be involved in describing brand new minerals just by virtue of working on a meteorite.”

Herd also notes that any new mineral discoveries could possibly yield exciting new uses down the line.

“Whenever there’s a new material that’s known, material scientists are interested too because of the potential uses in a wide range of things in society.”

While the future of the meteorite remains uncertain, Herd says the researchers have received news that it appears to have been moved to China in search of a potential buyer. It remains to be seen whether additional samples will be available for scientific purposes.

Herd described the findings at the Space Exploration Symposium on Nov. 21.

URL: https://www.ualberta.ca/institute-for-space-science-exploration-and-technology/media-library/symposium2022-videos/herd.mp4

Additional Resources:

https://www.nationalgeographic.co.uk/science-and-technology/2022/12/alien-minerals-never-found-on-earth-identified-in-meteorite