

## Cathay November 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.

**On a personal note:** Our esteemed CARC member: Ed Fong -WB6IQN is on the mend from his September 2021 mild Heart Attack. On behalf of the CARC I wish for Ed Fong to have a speedy and full recovery.

For addition information on heart attacks and heart disease:

<https://my.clevelandclinic.org/health/diseases/17069-heart-failure-understanding-heart-failure>

## **Veteran's Day Lunch**

At this time due to the ongoing COVID-19 pandemic, the CARC will not be hosting a Veteran's Day luncheon for this year, 2021.

We will hopefully celebrate Veteran day next year in November 11, 2022.

## **Silent Key**



Paul Kiyoshi Kitagaki Sr. - W6NDA (Mar. 9, 1927 - October 11, 2021) an Oakland, CA native passed away from natural causes at the age of 94 while at an assisted living home in Carmichael, California.

Those lucky folks that knew Paul as I did, will remember him as a: Gentleman, Scholar, Warrior, Educator, Devoted Father, and a long time well respected CARC member.

As a young boy of 14 years old, Paul and his family were placed in the Japanese Internment camp, Topaz Relocation Center, Utah. After the WWII ended, Paul enlisted in the Army Air Force in New Mexico where he specialized in electronics and radar technology. While stationed in New Mexico he met his future wife: Miss Agnes Eiko Takahashi. They married on July 20, 1949, a union lasting 57 years with her passing in 2008 at the age of 84.

After military service, Paul put his electronics training to good use as an educator and mentor. He taught Electronics at several San Francisco High schools: Polytechnic High School, Woodrow Wilson, McAteer High schools; and San Francisco Middle schools: Everett and Visitation.

Paul helped educate and mentor many budding electrical engineers in his electronics classes, one of which recalled: "unquestionably the most influential teacher I ever had and demonstrated the first microprocessor, still on a wafer that I had ever seen".

Paul was fascinated with technology throughout life, he accumulated more than 40 computers, from hand-held calculators to the newest Apple. Avid ham radio operator, he was a proud Navy Affiliate Military Radio System member, supporting state, federal and international agencies in emergencies. His back yard was filled with radio antennas.

He was preceded in death by siblings Hisayo Koga, Mario Kitagaki, Nobuo Kitagaki and Kimiko Wong.

Survivors include son Paul Kitagaki Jr. and wife Renée C. Byer; Paul's children Chris and Jessica Kitagaki Herrick, Naomi Kitagaki and Bryce and Monica Kitagaki Palmer; daughter Susan Sy and husband Gilbert Sy, children Brian and Elissa Sy; James and Emily Sy Pena; great-grandchildren Aden and Avalyn Herrick, Riley Sanders, Brayden and Quinn Palmer and Thomas Sy.

On Monday November 15, 2021 Paul will be interred with his beloved wife; Agnes at the Golden Gate National Cemetery in San Bruno, CA.

Paul Kitagaki Jr. would like invite the CARC members to his father's Memorial Service and Longevity Luncheon, please via email him at [kitagaki54@aol.com](mailto:kitagaki54@aol.com) to provide a head count of those attending the luncheon.

A Memorial Service for Paul Kitagaki Sr. details are as follows:

Saturday, November 13, 2021, 11:00 a.m.

Duggan's Serra Mortuary  
500 Westlake Ave.  
Daly City, CA 94014  
Phone: 650-756-4500

For those folks that are planning on attending, please don't forget to bring your proof of vaccination cards with you.

### **Tech Article Introduction:**

The 2021 Nobel Prize in Physics has been announced.

To read up more on it, please read about it in the Tech 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.

Upcoming meeting dates in 2021 are:

- November 16, 2021

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>

**+ TBD**

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 -**

**Does your NERT ID have an Expiration date of November 2019 or earlier?**

**Get recertified! Click here to register:**

<https://www.eventbrite.com/e/nert-graduates-lapsed-nert-recertification-tickets-196757044617?aff=ebdssbdestsearch>

This special Recertification Class is being offered to NERT Graduates with an Expiration date on their NERT ID of November 2019 or earlier. Participants must complete all 3 sessions in order to become recertified. Make up classes will not be offered. This is a wonderful opportunity for NERT graduates who did not qualify for earlier recertification classes to refresh your skills, reinvigorate your knowledge and recertify!

Lapsed NERT Training Dates:

- Thursday November 2, 6:00 PM - 9:30 PM
- Thursday November 4, 6:00 PM - 9:30 PM
- Saturday November 6, 8:30 - 4:00 PM

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: 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 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, via scheduled for on

**#029 Saturday 11/06/2021 6pm -10 pm via ZOOM** (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

<https://www.nobelprize.org/prizes/physics/2021/press-release/>

THE  
NOBEL  
PRIZE

## The Nobel Prize in Physics 2021

		
III. Niklas Elmehed © Nobel Prize Outreach <b>Syukuro Manabe</b> Prize share: 1/4	III. Niklas Elmehed © Nobel Prize Outreach <b>Klaus Hasselmann</b> Prize share: 1/4	III. Niklas Elmehed © Nobel Prize Outreach <b>Giorgio Parisi</b> Prize share: 1/2

## Press release: The Nobel Prize in Physics 2021



5 October 2021

[The Royal Swedish Academy of Sciences](#) has decided to award the Nobel Prize in Physics 2021

*“for groundbreaking contributions to our understanding of complex physical systems”*  
with one half jointly to

**Syukuro Manabe**

Princeton University, USA

**Klaus Hasselmann**

Max Planck Institute for Meteorology, Hamburg, Germany

*“for the physical modelling of Earth’s climate, quantifying variability and reliably predicting global warming”*

and the other half to

**Giorgio Parisi**

Sapienza University of Rome, Italy

*“for the discovery of the interplay of disorder and fluctuations in physical systems from atomic to planetary scales”*

## **Physics for climate and other complex phenomena**

Three Laureates share this year’s Nobel Prize in Physics for their studies of chaotic and apparently random phenomena. Syukuro Manabe and Klaus Hasselmann laid the foundation of our knowledge of the Earth’s climate and how humanity influences it. Giorgio Parisi is rewarded for his revolutionary contributions to the theory of disordered materials and random processes.

Complex systems are characterised by randomness and disorder and are difficult to understand. This year’s Prize recognises new methods for describing them and predicting their long-term behaviour.

One complex system of vital importance to humankind is Earth’s climate. **Syukuro Manabe** demonstrated how increased levels of carbon dioxide in the atmosphere lead to increased temperatures at the surface of the Earth. In the 1960s, he led the development of physical models of the Earth’s climate and was the first person to explore the interaction between radiation balance and the vertical transport of air masses. His work laid the foundation for the development of current climate models.

About ten years later, **Klaus Hasselmann** created a model that links together weather and climate, thus answering the question of why climate models can be reliable despite weather being changeable and chaotic. He also developed methods for identifying



specific signals, fingerprints, that both natural phenomena and human activities imprint in the climate. His methods have been used to prove that the increased temperature in the atmosphere is due to human emissions of carbon dioxide.

Around 1980, **Giorgio Parisi** discovered hidden patterns in disordered complex materials. His discoveries are among the most important contributions to the theory of complex systems. They make it possible to understand and describe many different and apparently entirely random materials and phenomena, not only in physics but also in other, very different areas, such as mathematics, biology, neuroscience and machine learning.

“The discoveries being recognised this year demonstrate that our knowledge about the climate rests on a solid scientific foundation, based on a rigorous analysis of observations. This year’s Laureates have all contributed to us gaining deeper insight into the properties and evolution of complex physical systems,” says Thors Hans Hansson, chair of the Nobel Committee for Physics.

## Illustrations

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[Illustration: Manabe’s climate model \(pdf\)](#)

[Illustration: Carbon dioxide temperature \(pdf\)](#)

[Illustration: Fingerprints \(pdf\)](#)

[Illustration: Disordered systems \(pdf\)](#)

[Illustration: Frustration \(pdf\)](#)

[Illustration: Spin glass \(pdf\)](#)

## Read more about this year’s prize

Popular science background:

[They found hidden patterns in the climate and in other complex phenomena \(pdf\)](#)

Scientific Background:

[“For groundbreaking contributions to our understanding of complex physical systems” \(pdf\)](#)

**Syukuro Manabe**, born 1931 in Shingu, Japan. Ph.D. 1957 from University of Tokyo, Japan. Senior Meteorologist at Princeton University, USA.

**Klaus Hasselmann**, born 1931 in Hamburg, Germany. Ph.D. 1957 from University of Göttingen, Germany. Professor, Max Planck Institute for Meteorology, Hamburg, Germany.

**Giorgio Parisi**, born 1948 in Rome. Italy. Ph.D. 1970 from Sapienza University of Rome, Italy. Professor at Sapienza University of Rome, Italy

**Prize amount:** 10 million Swedish kronor, with one half jointly to Syukuro Manabe and Klaus Hasselmann and the other half to Giorgio Parisi

**Further information:** [www.kva.se](http://www.kva.se) and [www.nobelprize.org](http://www.nobelprize.org)

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The Royal Swedish Academy of Sciences, founded in 1739, is an independent organisation whose overall objective is to promote the sciences and strengthen their influence in society. The Academy takes special responsibility for the natural sciences and mathematics, but endeavours to promote the exchange of ideas between various disciplines.

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<<https://www.nobelprize.org/prizes/physics/2021/press-release/>>