

Section Manager
East Bay Section Newsletter
February, 2024

ARRL East Bay Family,

A LOT of news this month, especially from the ARRL.

Shortly after sending out my newsletter last month, I received a note from Dick Gaul, K2GMY. Among other comments, he mentioned that he celebrated his 70th year as a ham in December. Wow! Congratulations, Dick! It made me wonder if that was a record in the Section. Has anyone been licensed longer than 70 years (and 2 months)? Who's the longest continuous ARRL member?

Congratulations and thank you to the Walnut Creek SHAMS Amateur Radio Club and the University of California Amateur Radio Club for becoming affiliated with the ARRL on February 20, 2020 and February 28, 1950, respectively.

Looking for a little more oomph in your get-along? Go to the O'Reilly Auto Parts website (<https://www.oreillyauto.com/>) and search for "121G".

[Thanks to Tom, WB8LCD for the fun.]

* **Question:**

What is the result of increasing the Q of an impedance-matching circuit?

- A. Matching bandwidth is decreased
- B. Matching bandwidth is increased
- C. Matching range is increased
- D. It has no effect on impedance matching

(See the last page for the answer.)

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Section & Division News:

* **Benicia One-Day Class**

The Benicia Amateur Radio Club is again hosting its highly respected One-Day Ham Radio Class. But if you want to go, you need to hurry. It's this Saturday, Feb. 3, 8:30 AM - 5:00 PM. The class is for an entry level Technician license, or existing Techs wishing to upgrade to General. The location is the Benicia Senior Center, 1201 East 2nd Street in Benicia and the fee is \$35.00; which includes all study material, venue, day-long refreshments, handouts, and the exam fee. After the application is processed by the FCC you will need to pay a separate \$35 fee directly to the FCC. If space is still available, register at (<https://beniciaarc.com/hamclass/>).

* **Leap Day Fun**

Leap Day (February 29) only occurs 24 times in a century (years ending in 00 do not have a leap day). The last time Leap Day occurred on a Thursday was in 1996. The next one will be at the end of this month; and the one after this year won't happen until 2052. I mention Thursday, because that's the evening the Mt. Diablo club (MDARC) has its weekly net. Because of the rarity of a Thursday Leap Day, Lauren Styles, WA6CIE and a frequent MDARC net control, decided we should all have some fun and promote getting on the repeater. So, he will host a special Leap Day Net on Thursday, Feb. 29. Lauren says, "We are looking into sending a contact QSO Card or email a Certificate to each station who checks in to the net (this has not been finalized yet-if we send QSL or EMAIL Certificates we will get information off of QRZ)." Everyone is invited, club member or not and even if you don't normally participate in MDARC's net. So put it on your calendar to join us at 7:00 PM, Feb. 29. Get the procedure and details at (<https://www.mdarc.org/activities/leap-day-net>).

* Amateur Radio on the International Space Station (ARISS)

The River City Amateur Radio Communications Society (RCARCS) and Sacramento, California Girl Scout Troop 1089 have been working hard to plan a contact with the International Space Station (ISS). In March of 2023, the application submitted by Scout Leader Amanda Banks was approved by the Amateur Radio on the International Space Station (ARISS) program. RCARCS hams and Girl Scout troop leaders have jointly engaged in a variety of activities to prepare for the contact. The scouts have learned about space, communication modes, how radio waves work, frequency and amplitude, circuits, web-based software-defined radio (SDR), telemetry signals from terrestrial and orbiting sources, creating QSL cards, and designing t-shirts for contact day. Jennifer Garland, KIITTY, led practice sessions with local clubs on the N6NA repeater via voice and SSTV. The ARISS contact is expected to occur in mid-February, when the Space Station tracks over California, and will be live streamed from the Girl Scouts' Sacramento headquarters on YouTube and Facebook. The RCARCS website is (<https://sites.google.com/site/rcarcs/home>). ARISS is at (<https://www.ariss.org/>).

* Turlock Auction

The Turlock Amateur Radio Club, in our neighbor Section to the east (San Joaquin Valley), is having an auction on Saturday, February 10. The auction will feature the estates of two local SKs. Doors open at 7:00 am and auction starts at 9:00 am. Coffee and donuts in the morning and lunch (Sloppy Joes, chips, salad, and water) will be provided by the Turlock Salvation Army at no cost, though donations are appreciated. Payment can be made with credit card, check, or cash. There is a bidding paddle fee of \$5.00. The location is the Turlock Salvation Army, 893 Lander Ave., Turlock, CA. Talk in TARC VHF Repeater 147.030+ pl 100.0. For auction guidelines and pictures of the equipment, see the Turlock Amateur Radio Club website at (www.w6bxn.org).

* Pleasant Hill SET

The Pleasant Hill CERT* participated in a city-wide Simulated Emergency Test (SET) on January 17th. Per Steve Donovan, WB6SAI, "At the initial Hot Wash immediately after the exercise the consultant opened it with not just recognition of the various volunteer groups, who collectively spent hours and hours developing the injects, but specifically called out the CERT organization who had nearly 60 volunteers throughout the city all working together to support the city staff at the EOC. Moreover, he more specifically mentioned the Ham operators on several occasions. Truly, he had nothing but good things to say about the Ham team specifically and thanked us profusely." Wow! Great job, team. Congratulations and thank you, Pleasant Hill CERT, for showing what hams can do.

[* CERT = Community Emergency Response Team]

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ARRL News:

* Executive Committee Meeting

The ARRL Executive Committee met on December 14th. Among the topics discussed were the recent dues restructuring, our struggles with the ARRL.net email system, a suggestion for a new membership type, Logbook of the World improvements and ongoing FCC proceedings. The minutes of that meeting are available at ([https://www.arrl.org/files/file/About ARRL/Board Meetings/Executive Committee December 2023 Minutes .pdf](https://www.arrl.org/files/file/About%20ARRL/Board%20Meetings/Executive%20Committee%20December%202023%20Minutes.pdf)).

* Board of Directors Meeting- Intro

The Board met on Jan. 19-20 and had an overflowing agenda. The next several items will provide some highlights, but won't cover everything that happened. The full minutes have not been released yet, but are expected soon. The next meeting of the ARRL Board of Directors is scheduled for July 19-20, 2024. The full announcement for the below items is at (<http://www.arrl.org/member-bulletin?issue=2024-01-21>). Our Pacific Division Director will be hosting a meeting with us Section Managers next week, so hopefully we'll be able to answer questions better after that.

* BOD #01- Director Changes

The item with the most immediate impact on us in the Pacific Division is that Kristen McIntyre, K6WX, was elected to be First Vice President, succeeding Michael Raisbeck, K1TWF. This means that Vice Director Anthony Marcin, W7XM is now our Director and the Vice Director position is open. It also means that Kristen will no longer have a vote in any decisions made by the Board, as Anthony will be our voting member. Kristen will remain on the Executive Committee, the group that handles League business between Board meetings. In addition, Northwestern Division Director Mike Ritz,

W7VO, was elected Second Vice President, succeeding Bob Vallio, W6RGG. Bob is a former director of our Pacific Division and lives in the East Bay Section.

* BOD #02 – Bylaws Changes

Board members discussed proposed changes to By-Law 46, the Board's Conflict of Interest Policy, and decided to consider revisions at a later date. The Board unanimously voted to approve the establishment of a committee appointed by the ARRL President to affirm the set of ethics guidelines and standards for the Board. In addition to the guidelines, the committee will review By-Laws 42 (Ethics and Elections Committee) and 46 for possible revision. The committee will also engage with a competent legally qualified independent third party to handle all Ethics & Elections inquiries in the future.

* BOD #03 - ARRL Director's Workbook

The Board voted to make the ARRL Director's Workbook publicly available on the ARRL website.

* BOD #04 - ARRL Life Membership

The Board approved the reintroduction of ARRL Life Membership and 70+ Life Membership (for members of age 70 and over) on a revenue-neutral basis. At its July 2023 Meeting, the Board had suspended the Life Membership Program, pending the approval of an adjusted revenue-neutral program.

* BOD #05 – Youth Outreach

The Board approved two motions aimed at engaging young hams with a strong start to their lifelong journey with amateur radio and ARRL:

-- Free ARRL Membership for Students. For decades, ARRL has offered a reduced dues rate for young hams, currently priced at \$30 per year. At this meeting, the Board established a new option for a no-cost Associate membership for full-time students of age 21 and younger.

-- ARRL Student Coding Competition. The Board approved the creation of a coding competition that will challenge students 21 and younger to design a software application that meets the specifications established by ARRL. Awards of up to a total of \$25,000 will be granted by an awards committee to the winning student(s). The terms and schedule for the competition will be determined by the committee.

* BOD #06 – ARES

With a goal of recruiting and developing greater participation in the ARRL Amateur Radio Emergency Service (ARES), the Board has approved, at the recommendation of the Emergency Communications and Field Services Committee, a commitment to expand messaging and marketing for the program.

* BOD #07 - Government Relations

The Board took two actions on government matters:

-- The Board issued its strongest rebuke of efforts by the ad-hoc group "Shortwave Modernization Coalition" (SMC) to introduce high-power signals to the shortwave spectrum, including frequencies immediately adjacent to the Amateur Radio HF bands. See the August & September, 2023 newsletters for a description of the petition. The Board made a clear statement that the interests of the SMC are in conflict with those of ARRL and its membership, and has requested that the ARRL Volunteer Monitors explore ways to gather data on SMC station emissions.

-- The Board voted to expand ARRL's ongoing efforts to help hams who are faced with involuntary limitations that limit their amateur radio operations beyond the regulatory efforts being pursued in Washington.

* BOD #08 - ARRL Foundation

The Board heard a report from ARRL Foundation President David Norris, K5UZ. The Foundation, which marked its 50th anniversary last September, provides philanthropic support for amateur radio by way of the ARRL Foundation Scholarship Program, Club Grant Program, and through other grants and funds. In 2023, the Foundation awarded 113 scholarships totaling over \$600,000, through the generosity of individuals and clubs. Norris also recognized the generous commitment made by Amateur Radio Digital Communications (ARDC) which will fund over \$2.1 million, over three years, to support scholarships, radio technology for classroom teachers, and amateur radio club grants.

* Club Grant Program Reminder

A reminder from an item in last month's newsletter. The ARRL Foundation is now accepting grant applications from amateur radio organizations for eligible amateur radio-related projects and initiatives, particularly those focused on educating, licensing, and supporting amateur radio activities, to grow amateur radio's future, youth-based projects and

initiatives are especially encouraged. Proposals for the June grant period are accepted through February 29. Awardees will be notified approximately 1 month after the closing. Get details, requirements and the application at (<https://www.arrl.org/amateur-radio-grants>).

* ARRL Becomes Gordon West's Publisher

Most of us should know Gordo well, from his annual appearances at Pacificon, numerous club presentations, weekly YouTube videos, training programs, volunteer examiner coordination, many books and his enthusiastic unending promotion of all things ham radio. The League recently announced that they will become the new publisher of his Amateur Radio License Preparation books and related resources. See the full announcement at (<https://www.arrl.org/news/arrl-is-new-publisher-of-gordon-west-wb6noa>).

* Updated Club Commission Program

The League's revised Club Commission Program for signing up new and renewing ARRL members is now on the website. Among the changes is an increase in the commission for new members from \$15.00 to \$20.00. The details and the needed forms are at (<http://www.arrl.org/affiliated-club-benefits>). Click on the "Club Commission Program" header.

* Teachers Institute 2024 Now Accepting Applications

The ARRL Teachers Institute on Wireless Technology is a completely donor-funded professional development program designed to help classroom teachers elevate their STEM programs through the use of wireless technology. Teachers attending the program spend several days filled with lectures, hands-on activities, and demonstrations to inspire teachers so they can inspire their students through the use of tools and strategies to introduce basic electronics, radio science, satellite communications, Amateur Radio, radio direction finding (fox hunting), weather science, microcontrollers, and electronic sensors to their students. Teachers are provided with the equipment needed to take wireless technology to their classrooms. If you can support this very important program, donate at (<https://home.arrl.org/action/Donate/Education-Technology-Fund>). If you are, or know of, a teacher that may be interested in attending the Teachers Institute, complete the application at (<https://www.arrl.org/teachers-institute-on-wireless-technology>).

* ARES Forms

The League has been working for quite some time to get the forms used for reporting ARES activities migrated from mail-in paper to online submission, but have hit numerous obstacles. But it looks like they're pretty much there now. The new online Form 2-ARES Monthly DEC/EC Report has just been released. Form 4- Monthly Section Emergency Coordinator Report will be available early next week. Access both of them at (<https://ares.arrl.org/>). The instructions are at the upper right-hand corner of the page. You must be logged in to the website to use the forms.

* On The Air Articles

Several times in past newsletters, I've sung the praises of the League's newest magazine, On The Air. The new Jan/Feb, 2024 issue just released is another one that deserves a mention. The ARRL says that OTA "covers a range of ham radio interests and topics, delivering introductory techniques and stories to help anyone with a beginner-to-intermediate-level of experience." But to me, it has a lot of value to all of us, no matter our experience level. The new issue has articles explaining all the many details of their Band Allocation Chart; what "line-of-sight" really means (it's not always actually line of visual sight); thoughts and ideas on building your junk box, something every ham should have; building a low-cost, high-performance 2-meter beam antenna; and a shout-out to another one of the many ham radio YouTubers, continuing their series of such items. All League members have access to all four of the ARRL magazines, including OTA, in digital form via Android and iPhone apps and on the League website. Get started with OTA at (<https://www.arrl.org/on-the-air>).

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Government News

* ARISS Contact Opportunity

The Amateur Radio on the International Space Station (ARISS) Program is seeking formal and informal education institutions and organizations, individually or working together, to host an Amateur Radio contact with a crew member onboard the ISS. ARISS anticipates that the contacts would be held between July 1, 2024 and December 31, 2024. Crew scheduling and ISS orbits will determine exact contact dates. To maximize these radio contact opportunities, ARISS is looking for organizations that will draw large numbers of participants and integrate the contact into a well-developed education plan. The deadline to submit a proposal is February 29, 2024. Proposal information and more details such as expectations, proposal guidelines and the proposal form can be found at (<https://www.ariss.org/>).

* Ham Station on the Moon

The Japan Aerospace Exploration Agency (JAXA) successfully landed their Smart Lander for Investigating Moon (SLIM) on January 19, 2024. The JAXA Ham Radio Club (JHRC), JQ1ZVI, secured amateur radio license JS1YMG for LEV-1, one of two small lunar probes released by SLIM, which has been transmitting Morse code on 437.41 MHz since January 19. The probe uses a 1 W UHF antenna with circular polarization and is transmitting "matters related to amateur business." It's unclear how long signals will be heard. JAXA has said that SLIM was not designed to survive a lunar night, which lasts about 14 days, and is due to return in a few days.

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Other News:

* HamSCI 2024 Workshop

Ham Radio Science Citizen Investigation (HamSCI) will hold its sixth annual workshop on March 22-23, 2024, at Case Western Reserve University in Cleveland, Ohio. The event is meant to bring together the amateur radio community and professional scientists. The 2024 workshop's theme will be "Alignments" - specifically those between the Sun, Moon, and Earth; collegiate amateur radio recreation and science, technology, engineering, and math (STEM) curricula; data collection and analysis, and professional and citizen science. Continued development of the HamSCI Personal Space Weather Station (<https://hamsci.org/basic-project/personal-space-weather-station>) and discussion about integrating amateur radio into the collegiate curriculum will also take place during the workshop. Registration is now open, and the deadline is March 1, 2024. For registration and additional information about the event, see (<https://hamsci.org/hamsci2024>).

* Ham Examination News

A couple of items from the ARRL Volunteer Examiner Coordinator:

-- The NCVEC* Question Pool Committee (QPC) has released errata for the new 2024 – 2028 Extra Element 4 question pool, which goes into effect on July 1, 2024. The errata includes one question (E9E10) withdrawn from use, five modified questions (E1D07, E1F03, E4D12, E4D13, and E6A06), and two rule's citations that have been updated (E1E10 and E1E11). You can get the complete pool of questions and errata at (<https://www.ncvec.org/index.php/2024-2028-extra-class-question-pool-release>).

[* NCVEC = the National Conference of Volunteer Examiner Coordinators]

-- The ARRL VEC also reports that "The largest number of complaints we receive cite examiners as the primary noise source and distraction for candidates." So if you're a VE, and especially if you're a VE Team Lead, please work hard to keep the exam room quiet. Strive to keep noise levels of examiner administrative discussions to a minimum. The VE team should suppress any unnecessary or excessive noise in the exam room, irrespective of the source, and take corrective steps to ensure exam sessions comply with good VE practice and VEC policies. Socializing should be conducted before or after the session, not during, to minimize distractions.

* Maxwell's Ether

In October, 2023, the IEEE* Foundation and IEEE History Center held a webinar entitled "Maxwell's Ether: From Wave Optics to the Electromagnetic Theory of Light". The speaker "walked the audience through the remarkable history of how Maxwell adapted the concept of an all-pervading ether to develop and ground his electromagnetic theory of light"; and in so doing, developed his unified theory of electricity, magnetism and light, along with the now famous Maxwell's Equations. A recording of the webinar is available on the IEEE Foundation website at (<https://www.ieeefoundation.org/maxwells-ether-from-wave-optics-to-the-electromagnetic-theory-of-light/>) [Viemo; 00:54:38]

[* IEEE = the Institute of Electrical and Electronics Engineers]

* Satellites Are Becoming the New Cellphone Towers

Another item from the IEEE, this one from their Spectrum magazine, has the above title. The sub-head is "Larger antennas and better beamforming are routing calls through orbit". The article discusses how new technologies coming from SpaceX's Starlink and its budding competitors are solving many of the problems earlier versions of "satellite phones" have had. Have a look at (<https://spectrum.ieee.org/satellite-cellphone-starlink>).

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Hamfests And Special Events:

* 02/10-29/2024

75th anniversary of the Delivery of the Merci Train Boxcars from France. 000Z - 0000Z each day on FT8 on 7.074 and 7.250 MHz, and on SSB on 14.074 and 14.250 MHz. American Legion Paradise Post 149, Las Vegas. Info on the Merci Train is at (<http://www.mercitrain.org/>). Info on the event and the Legion post is at (https://www.qrz.com/db/NV7AL#t_bio) and (<https://www.post149.org/>).

* 02/11-19/2024

Countdown to the 100th Anniversary of the Discovery of Pluto. W7P. Details at (https://www.nadxa.com/w7p_2030_2024.html) and (https://www.nadxa.com/w7p_pluto_2030.html).

* 02/17/2024

Sinking of the USS Housatonic by the H.L. Hunley Submarine, 160th Anniversary. N4HLH. 10:00 AM to 2:00 PM EST. Proposed frequencies are 7.117 (CW), 7.262, and 14.262, as well as 28.462 MHz for Technician-class licensees. Details, including a little bit of the history, are at (<https://www.tridenthams.org/hl-hunley/>).

* 03/23-24/2024

Baker to Vegas Relay Race for Law Enforcement. 1600Z-0000Z, N6A, Valley Center, CA. Ham Radio Outlet Anaheim. 7.225 14.225. QSL. Glenn Arrant, 14723 Puma Trail, Valley Center, CA 92082.

* 04/12-14/2024

International DX Convention, 75th Annual. Visalia, CA. Sponsored by Southern California DX Club. Website: (<http://www.dxconvention.org>).

* 04/27/2024

Valley of the Moon ARC Annual Hamfest. Sonoma, CA. Sponsored by Valley of the Moon ARC. Website: (<http://VOMARC.ORG>).

Search for all hamfests at (<https://www.arrl.org/hamfests-and-conventions-calendar>)

Search for all Special Event Stations at (<https://www.arrl.org/special-event-stations>)

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Significant Events in Telecomm History – February

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** Note: Send me the date and location your club was founded, so I can add it to this list. **

- 02/01/1942 The Voice of America began broadcasting. It currently broadcasts an estimated 1800 hours of radio and TV programming each week in 47 languages to approximately 236.6 million people worldwide.
- 02/01/1954 Edwin Howard Armstrong, inventor of FM (frequency modulation) radio and the superheterodyne receiver system, died in Manhattan, New York at age 63.
- 02/03/2006 SuitSat-1 was released into orbit during a spacewalk from the International Space Station. A repurposed decommissioned Russian spacesuit fitted with ham radio equipment; it transmitted short messages in a number of languages before reentering the atmosphere about 7 months later.
- 02/04/1938 Scottish inventor John Logie Baird made the world's first color television broadcast, sending a mechanically scanned 120-line image between two buildings in London.
- 02/08/1922 President Warren G. Harding had the first broadcast radio receiver installed in the White House.
- 02/08/1996 The Telecommunications Act of 1996 was signed into law by President Bill Clinton; the first major amendment of the Communications Act of 1934.
- 02/11/1847 Thomas Alva Edison was born in Milan, Ohio.
- 02/13/2011 The first World Radio Day was proclaimed by UNESCO. February 13 was adopted by the United Nations in 2012 as an annual day of recognition of radio as the world's most widely consumed medium.
- 02/14/1876 Alexander Graham Bell and Elisha Gray both filed applications at the U.S. Patent Office for an "improvement in telegraphy". Three weeks later, Bell received Patent No. 174,465.

02/14/1990 The "Pale Blue Dot" image of Earth, made famous by Carl Sagan, was taken by Voyager 1 at a distance of 3.7 billion miles (6 billion kilometers) from the Sun. It was then sent back to Earth by radio, taking an (N6JGA-estimated) 5.5 hours to arrive from that distance.

02/14/1991 The FCC's Report and Order ending the requirement for Morse Code proficiency for the Technician Class license took effect.

02/17/1936 ARRL co-founder Hiram Percy Maxim, W1AW, died in La Junta, Colorado at age 66.

02/18/1745 Alessandro Volta was born in Como, Duchy of Milan, Italy.

02/20/2020 The Walnut Creek SHAMS Amateur Radio Club became affiliated with the ARRL.

02/22/1857 Heinrich Rudolf Hertz was born in Hamburg, German Confederation.

02/22/1978 The first Global Positioning System (GPS) satellite was launched.

02/23/1927 The Radio Act of 1927 was signed into law by President Calvin Coolidge, creating the Federal Radio Commission. It included the formal establishment of amateur radio bands.

02/23/1947 The International Organization for Standardization (ISO) officially began operations.

02/23/1978 The basic call sign structure in place today was established: call sign blocks by class; calls assigned consecutively; no longer need to change call signs when moving; discontinued separate licenses for repeaters, secondary, control and auxiliary stations.

02/23/2007 The FCC's Report and Order ending the requirement for Morse Code proficiency for all amateur radio licenses took effect.

02/24/2001 Claude Shannon, "the father of information theory", died in Medford, Massachusetts at age 84.

02/28/1950 The University of California Amateur Radio Club became affiliated with the ARRL.

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New Hams:

KO6CHD	Joselito Cruz	Concord
KO6CKS	Zachary Lee Halverson	Danville
KO6CHL	Elsa Talarico	El Cerrito
KO6CKQ	Eunice Patino	Antioch
KO6CGO	Mauricio Casagrande	Fremont
KO6CHR	Ryu Sutton	Fremont
KO6CLI	Haohua Zhou	Fremont
KO6CGS	Michael Woodmansee	Livermore (General)
KO6CLU	Christopher Lyall	Livermore
KO6CKY	Lincoln Le	Fremont
KO6CKC	Gabriel Rouse	Dublin
KO6CNF	Joshua Davidson	Rio Vista
KO6CGX	Jorge Garcia	San Lorenzo
KO6CHG	Miguel Yanez	San Lorenzo
AK6EN	Wenze Tian	San Ramon (Extra)
AK6EL	Xuheng Cheng	San Ramon (Extra)
KO6CLK	Rafal Kruczkowski	Union City (General)
KO6CMC	Yaroslav Shneikin	Walnut Creek
KO6CHK	Erik Lyngen	Oakland
KO6CNB	Michael Jordan	Oakland
KO6CPI	Mark Janes	Oakland
KO6CLZ	Tiago Mambrim Flora	Emeryville
AK6DW	Gregory Andreas	Piedmont (Extra)
KO6CHM	Cole Walker	Oakland
KO6CPV	Stuart Ambler	Berkeley (General)
KO6CKK	Ben Chun	Berkeley
KO6CLT	Rogelio Franco	Richmond
KO6CJO	Madison White	Dixon
KO6CIW	Connor Avery	Vacaville

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New Upgrades:

KO6AQR	Dean Markle	Brentwood (General)
KO6BUE	Robert Baffico	Fairfield (General)
KO6BAO	Fernando Ner	Fremont (General)
KO6AGZ	Abby Ho	Hayward (General)
KO6CGS	Michael Woodmansee	Livermore (General)
KO6CCH	Paul Rose	Livermore (Extra)
KO6CMH	Prometheous Lee	Livermore (Extra)
KN6ZZL	Gregory Barbone	Martinez (General)
KO6CLK	Rafal Kruczkowski	Union City (General)
KM6SGB	Joselito Tiongco	Vallejo (General)
KO6AEW	Patrick Cudney	Vallejo (General)
KO6BTW	Christopher Parsell	Oakland (General)
KN6GTR	Nancy Coombs	Richmond (Extra)
K6LAZ	Diane Vieira	Vacaville (Extra)
W6MAV	Michael Vieira	Vacaville (Extra)

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Question & Answer:

What is the result of increasing the Q of an impedance-matching circuit?

A. Matching bandwidth is decreased

[Extra Class question pool (2020-2024) no. E5A05 (<https://www.ncvec.org/index.php/2020-2024-extra-class-pool>).]

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If you'd like a better-looking PDF version of this newsletter, or want to refer to previous editions, they're all available on the East Bay Section website at (https://arrleb.org/index.php/files/get_dir/Newsletter).

Until next time, remember that the East Bay Section team is here to serve you, the hams of the East Bay. If you have a question or a problem concerning ham radio, don't hesitate to contact us.

Mike Patterson, N6JGA
ARRL East Bay Section Manager

Email: N6JGA@ARRL.org
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ARRL HQ Help Desk: 888-277-5289 or hq@arrl.org
Index of Contacts at ARRL HQ: <http://www.arrl.org/contact-arrl>

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