



P.O. Box 6421 Auburn, CA 95604

June 2021

<http://w6ek.org> info@w6ek.org

At The Key of SFARC:

PRESIDENT

Brian Gohl, AI6US
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DIRECTORS

Gerry Brentnall, WA6E
Wayne Stilwell, W6DT
Chip Bautista, KM6MDF

FIELD DAY CHAIRMAN

To be filled

REPORTERS

Satellites: Greg, KO6TH
Sunshine: Roy, WH7DH

GROUPS io

Dennis Gregory, WU6X

PIO

Scott Vogelsang, WA6YNE

REPEATERS

145.430 (-0.6 MHz/PL 162.2)
440.575 (+5.0 MHz/FUSION)
223.860 (-1.6 MHz/PL 110.9)

CLUB NET

Thursdays, 7:30PM, W6EK/R 145.430

CLUB MEETINGS

Second Friday of the month,
Online Zoom starts @7:30pm
Meeting ID: 962 6167 5605

CLUB BREAKFAST

Last Sat of the month at Mel's Diner
1730 Grass Valley Hwy, Auburn 7:30AM

NET CONTROL OPS

Dave Jenkins, WB6RBE
Orion Endres, AI6JB
Chip Bautista, KM6MDF

NEWSLETTER EDITOR

Barbara Anderson, W6EVA
anderson51@wavecable.com

WEBMASTER

Herb Garcia, KM6JBI

STATION TRUSTEE

Clyde Campbell, AB4CC

VOLUNTEER EXAMINER

Andrew Silvester, K6OP

Calendar of Events

June 11th @ 7:30pm
Zoom General Meeting

June 20th
Summer Solstice
(AKA – the first day of summer)

June 25th - 27th
Field Day

June 26th @ 7:30am
Club Breakfast



Join us every morning @ 7:30am for the Coffee Break Net on the W6EK repeater 145.43, PL 162.2

Inside this issue

- ***President's Message***
- ***What Is It?***
- ***What amateur radio clubs/services are worth paying for?***
- ***Board & General Meeting Minutes***

We encourage members to receive Sierra Signals via email to save the Club the cost of reproduction and mailing

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President's Message

*By Brian Gohl – AI6US,
President*

What an active radio month we just had! CERA Motorcycle Enduro Race, Donuts and Coffee in the Park, Technician Class training lab, Breakfast at Mel's Diner, Georgetown Fly-in demo station and as I write, the Western States Memorial Day Training Event. Club member participation and turnout for these events has been fantastic! Check out all of the event photos and videos on Facebook www.facebook.com/groups/sfarc and on our website at www.w6ek.org/PhotoGallery



Donuts and Coffee in the Park

Donuts and Coffee in the park was a major success. 15 dozen donuts and gallons of coffee were consumed as we spent the morning visiting with approximately 90 new and long-time friends at Meadow Vista Park. Orion - AI6JB ran the Coffee Break net from the park with 52 check-ins. Drones flew overhead, project builds were shared and great conversations and stories shared. It was so great to see everyone in person again after a long year! Thank you to all who volunteered to help out with the event. We will do this again!



Georgetown Fly-In

Over 1000 visitors attended the Georgetown Fly-in event and stopped by the SFARC booth to check out the radios and other eye candy. Thank you to Scott - KK7AIR for inviting us to promote amateur radio and set-up beside his aircraft in the shade of the hangar door. Boy, were we glad that the hangar door was lowered when the Sikorsky S70i Cal Fire Hawk helicopter landed right in front of our station! Ten members represented the club and gave brochures, answered questions, demonstrated the radios and had a great time just hanging out and checking out the planes.



Our display included a Vero VR7500 VHF/UHF headless Go Kit, KX1 portable package, IC-7300 on HF, IC-9700, FTM-400 and FT3D HT on VHF/UHF analog and Fusion FM. A Hex Beam was mounted on Greydon - KC6SLE lifted Jeep with a pneumatic mast and WiFi 12Vdc rotator. Wow! That caught a lot of attention and generated questions!

Quite the interest in amateur radio in Georgetown with the elevated fire risk, spotty cell reception in the mountains and frequent power shutdowns. We met dozens of new hams and others studying for their licenses. Several will be visiting us next month, during Field Day at the airfield campground.

Field Day 2021

Please RSVP for Field Day 2021 as soon as possible. Field day will be held at the Georgetown Airport Campground. The event begins with set-up at 11am on Friday June 25th and wraps up at 11am on Sunday. Planning is well underway and now we need to know your availability and schedule. Food orders for breakfasts and BBQ dinner need to be placed soon. <https://forms.gle/7dPtRck8BGeKvJTf9>

Only a few more days to order a custom SFARC FD Fly-in t-shirt. The order will be printed next week. www.customink.com/g/jgy0-00ce-ed34

The Georgetown Airport Campground is a beautiful location. Plenty of room / shade for stations, antennas, socializing, camping with a large area for tent and small RV parking. Larger 5th wheel and Class A / C RVs and aircraft have plenty of parking on the apron near the hangars. The county just re-certified the water system and installed a new shower, bbq grill and picnic tables. Quite the nice campground and did I mention that the camping is FREE?

Join us at the next club meeting on June 11th at 7:30pm in the SFARC Zoom Room and we will talk about the schedules, antenna and station layouts and what to bring for Field Day 2021. A great selection of antennas, radios and modes will be operated this year. Maybe this is your first time to be on the radio or you are an experienced operator. Field Day is an opportunity for anyone to get on the radio or hang out with other hams and enjoy great food and conversation.

Thank you to Gerry - WA6E for starting the Field Day planning before heading off on your RV adventure with Theta - WA6EWF and grandkids! Sal - K6SAL will be our Field Day Chairman and assisted by Al - N6ADT. Antenna set-up is headed up by Orion - AI6JB, Don - WB6LPJ will be leading station set-up and Jim - WA8MPA will coordinate the WiFi logging server and power distribution. Greydon - KC6SLE is the event Safety Officer, assisted by Thomas - KN6MJB. Jim - KQ6VP brings his culinary skills to prepare the BBQ tri-tip and chicken dinner, complete with side dishes and dessert. Pancake, sausage and egg breakfasts will be prepared by Lin - KN6KRD and Brian - AI6US. Orson - KG6UCS and Herb - KM6JBI are brewing up a special 805 type craft beer especially for Field Day, named "Can't Resistor". Many other members are joining the teams to help set-up, break down, serve meals, Elmer and assist with the stations operation. Remember to RSVP - ASAP!

Looking forward to seeing you at the 2021 SFARC Fly-In Field Day in Georgetown!

Until then, 73

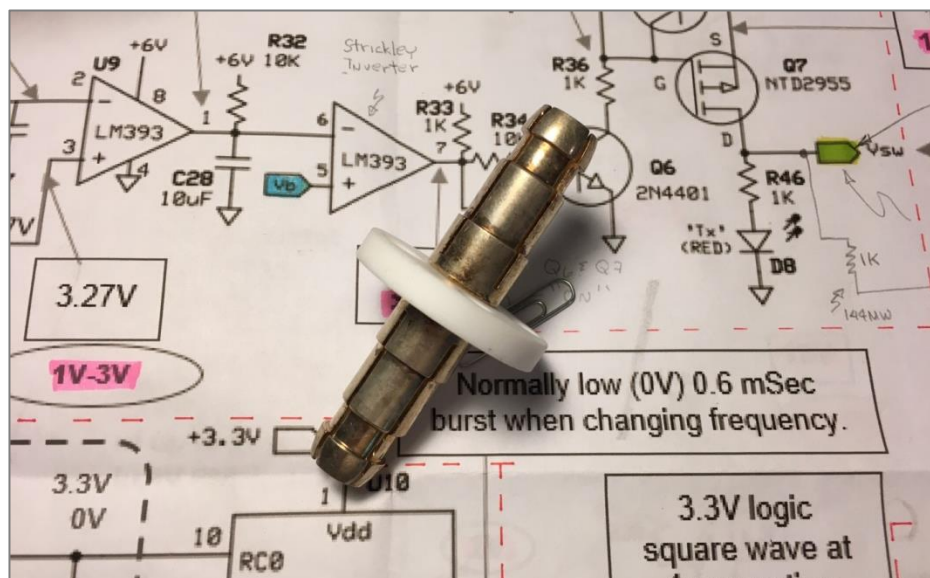
Brian Gohl - AI6US

SFARC President

Photos submitted by: Pauline (XYL of Peter - WB6POT); JoJo - KN6HTD; Lin - KN6KRD; Josh - KK6VHH

What is it?

Hint: This item was used by amateurs with deep pockets and running max power. If you have a Broadcast Background you may have used these or their bigger cousins.



Answer is on page 12 of this newsletter

KB6NU's Ham Radio Blog

What amateur radio clubs and services are worth paying for?

By Dan Romanchik, KB6NU

On the amateur radio subreddit

(<https://www.reddit.com/r/amateurradio/>), someone asked:



“I have always wondered what subscriptions/memberships are worth having? Is ARRL worth the \$50/year? What about QRZ \$30/year for XML data? Is there something that is a must have?”

Several replied in the affirmative about the ARRL:

“I joined the ARRL so they can lobby for amateur radio when needed.”

“I think ARRL is worth it.”

“If you care about things like DXCC awards, and are in the US, you will need to be an ARRL member. Now that QEX, The National Contest Journal, On the Air and QST digital are all member benefits, I would say you get enough for your \$50 to make it worthwhile.”

Of course, there were differing opinions:

“They [expletive deleted] up the Parity Act so badly that it’s almost hilarious. ARRL will never see a dime from me.”

There were a lot of comments about subscribing to QRZ.Com:

“I spend a bunch of time on QRZ every day, and I log every contact in their logbook, and then send it to LoTW, so the XML is well worth it. Also, will all the time on the forums and the articles I spend I enjoy not having the ads, and supporting what I believe is a fantastic website.”

“QRZ is worth it so you can integrate with logging software or if you want upload your ADIF file from WSJT-X, if you do FT8, that sort of thing.”

“I’ve never felt the need for a QRZ subscription. Only when I was the noobest of noobs and couldn’t tell the difference between ON4 and OH2 did I ever run up the 100 lookup a day limit. Now with...alternate... lookup services even hitting the limit might not matter for most hams.”

There were some comments about supporting local groups:

“You should definitely seek out your local club(s) and join whatever ones seem like a good fit to you. You can learn a lot from a good club, and having a couple of hands to help with antennas/ loan equipment is a fantastic benefit.”

“I donated to the repeater I use the most.”

As for me, I am a member of the ARRL, and at various times, have been a member of:

- AMSAT
- Amateur Radio Lighthouse Society (ARLHS)
- TAPR
- QRP Amateur Radio Club Intl. (QRP-ARCI)
- Quarter Century Wireless Assn. (QCWA)
- Northern California DX Foundation (NCDXF)
- Michigan QRP Club
- ARROW – the amateur radio club here in Ann Arbor

My membership is current in AMSAT, ARLHS, QRP-ARCI, MI QRP Club, and ARROW.

I would encourage you to become an ARRL member and a member of other groups that serve your particular interest in amateur radio. I like operating from lighthouses, so I’m a member of ARLHS. If you’re a big DXer, join NCDXF. If you’re a QRPer, then QRP-ARCI is the group for you. Becoming a member really will help you have more fun with amateur radio.

You probably belong to your local club if you’re reading this column, but I’m curious about what other amateur radio subscriptions you have or which services you pay for. Feel free to email me and let me know which groups you support and why you do so.

=====

Dan Romanchik, KB6NU, is the author of the KB6NU amateur radio blog (KB6NU.Com), the "No Nonsense" amateur radio license study guides (<https://KB6NU.Com/study-guides/>), and often appears on the ICQPodcast (<https://icqpodcast.com>). When he's not paying his dues, he teaches online ham radio classes and operates CW on the low end of the HF bands.



BOARD OF DIRECTORS MEETING MINUTES

Video Conference Zoom Meeting

May 14, 2021 @ 1800

The Board Zoom meeting was called to order by President, Brian/AI6US at 6 pm and was attended by most of the board members. Treasurer, Jeff/KM6RGO was absent due to being away for his daughter's university graduation. His treasury report is posted online.

Secretary: Michele/WH7QC had no report for the evening. The April 2021 minutes were approved as submitted.

Gerry/WA6E, Wayne/W6DT and Chip/KN6MDF had no Director reports.

Repeater Trustee: Clyde/AB4CC reported that the repeaters are working well. He did a test configuration with the help of Brian/AI6US and Don/WB6LPJ for the Endurance Run and it worked flawlessly.

Brian reported that Peter had a very good article in the May newsletter. He said that there is so much talent in our group and to please submit articles.

Webmaster: Herb/KM6JBI reported that he has been working with Orion/AI6JB on the verbiage for the web.

Groups io: Dennis/WU6X-There are currently 217 registered members on Groups io.

Social Media: Orion/AI6JB had no report at this time.

Membership: Jeff/KM6RGO-Jeff was out of town, but we have 6 new club members.

VE Exams: Raley's is still not allowing use of their room, but Brian/AI6US will contact them again next month. However, we do have a good online option available.

Volunteer events: Chip/KN6MDF reported that there are two events coming up-the Western States Endurance Training Run and the Western States Endurance Run. Chip was asked to reach out as to what is happening with TEVIS Cup this year. It is important we know before folks sign up as to what kind of experiences will be had with regards to our volunteer events.

Contests: Dennis/WU6X-There are no contests going on at this time.

Ham Fest: Orion/AI6JB reported that things are still up in the air as to locations.

Picnic: Roy/WH7DH reported that he is checking weekly with the Parks and Recreation office to reserve the pavilion for our group.

Field Day: Gerry/WA6E reported that for Field Day there will be 4 stations plus a VHF station. Orion/AI6JB is setting up the main station and other stations will be set up individually. There will be plenty of food — Brian and Lin/KN6KRD will be providing breakfast for Saturday and Sunday, Friday night

is pizza and Saturday, BBQ tri tip and chicken by Jim. So far, 34 tees have been ordered which means the cost is now down to \$18 each.

“Donuts and Coffee in the Park”: 86 are signed up so far! We went over budget, so Brian will set out a collection bowl. 😊

Member management committee: A management software needed to assist for club membership accounting needs. There are 191 members now in the club. Jeff/KM6RGO handles both treasurer and membership duties and does a terrific job, but it can be an overwhelming task. We will have Jeff give a description of what a membership person would ideally need to do to fill this responsibility.

New Meeting Space: Greg/KO6TH reported that there is a church near his place, near Dry Creek Road. Jim/WA8MPA also has a church near him—a Quonset hut where there are plenty of tables and parking and is located near Auburn-Ravine Road. He also mentioned that the club will need insurance and pay a custodial fee. Both Greg and Jim will look into these prospective venues.

Gerry/WA6E brought a discussion of “Life Honorary Membership”. He proposed that Al Martin/NI2U be nominated due to his lifetime of valuable service to Ham Radio—past president, vice-president, VE chairman, Field Day chairman, Ham Fest, alternate net control, Elmer net contributor, working with children/youth, including Jamboree on the Air, countless volunteer events and on and on. We wholeheartedly agreed!

Gerry motioned and Wayne/W6DT seconded the motion. The board voted unanimously in this regard.

The Board meeting adjourned at 18:55. Submitted by Michele/WH7QC.



GENERAL MEETING MINUTES

Video Conference Zoom Meeting

May 14, 2021 @ 1930

After all the welcoming visits, including the welcoming of guests, President Brian/AI6US called the meeting to order at 19:59. He reminded attendees to be sure to have their first name and call sign if you are interested in the Prize Wheel. He led the meeting with our usual Pledge of Allegiance 😊 and we got started.

Tonight’s “Wheel of Prizes” organized by Dennis/WU6X presented more cool prizes: A totally cool, “Livin’ the Dream” button, Dutch Bro. gift card, Soft Tablet holder, AND another tiny SA. Also, on the wheel, is a donated prize by Clyde/AB4CC of a NANO, VNA 2.8. Thank you, Clyde!

Jim/WA8MPA announced that there will be an Estate Sale for our “Silent Key”, Dave Fortenberry/K6VHP on Saturday, 15 May, located about 1.5 miles away from the Meadow Vista Park.

Vice-president, Greg/KO6TH had no report, but announced that for our Tech Ten presentations, we will have Clyde/AB6CC on “Advanced Repeater Functions” — a presentation that was to be given a couple

months back, but due to Clyde’s unfortunate skiing mishap he was unable to do it. He also announced that we will be having our usual “Show Us Your Shack”. Our program will be presented by Al/N6ADT on “Solar” another presentation that everyone has been excited about.

Secretary, Michele/WH7QC had no report.

Treasurer, Jeff/KM6RGO was in San Diego to attend his daughter’s university graduation. His report can be found online.

Director, Gerry/WA6E announced that tonight’s meeting we have a quorum, which is always important when voting on club items. He reported on Field Day and that there will be 4 HF and 1 VHF stations set up in Georgetown. Brian/AI6US and Lin/KN6KRD will be providing breakfast for both Saturday and Sunday mornings. Friday evening will be pizza night, and Saturday evening, Jim will be BBQ tri tip and chicken—yummy! There are tee shirts on sale for the event, designed by Bob/K6UDA.

May 24 is the next planning meeting via Zoom. Gerry is the overall chairman, but we need a person willing and able to take charge for the weekend as he will be out of town with family. All major positions have been covered and assignments made.

Directors, Wayne/W6DT and Chip/KM76MDF had no reports.

*We had one guest for the evening--Howard/KN6MJB. Welcome Howard!

*The April 2021 minutes were accepted as submitted.

Donuts and Coffee in the Park is TOMORROW morning—Saturday, May 15! Everyone has been so excited about this upcoming event! A big SHOUT OUT to BRIAN/AI6US for organizing this much needed and anticipated event. We look forward to coming out of our “Covid cages” and having a great time meeting up face to face--finally!

We have 6 new members to the club. Roy/WH7DH motioned and Bill/KM6LNR seconded the motion to accept these new members. The club voted unanimously.

Gerry/WA6E made a proposal earlier during the board meeting that the club present the “Honorary Life Membership” to Al Martin/NI2U for his outstanding service contributions to the SFARC and beyond, including past SFARC president and vice-president, Elmer net contributor, VE Exams, California CQ, Jamboree on the Air, and many, many more! Gerry/WA6E motioned and Orion/AI6JB seconded the motion and the club voted unanimously in favor to present this award to Al/NI2U, a very deserving individual and fellow ham radio operator.

Wheel of Prizes: The NANA VNA 2.8 went to the lucky winner, Ray/N6PGX. Congratulations Ray!

For tonight, there is also a SFARC Field Day 2021 tee shirt “chat bid” —a \$20 value.

TECH TEN

“Show Us Your Shack”

Rich/AA6RS was our surprise shack spotlight. Rich has an impressive station indeed, with a workstation,

library and a variety of license plates hung on the wall. Rich has been a “knob tuner” for a long time. He has an SDR (software designed radio) HF station and VHF station, FM & Winlink, FM & D-Star-ID-5100- and more! Thank you for sharing your sweet radio shack, Rich!

“Advanced Repeater Functions”

By Clyde/AB4CC

W6EK Repeaters-What Now?

We have a KT-34, 45 foot, Retractable and Foldover antenna, 220 MHz Repeater with local area coverage. Coming soon is Allstar Link 51018 (runs on Nodes & DV switch [Android] and Echolink W6EK-R (runs on I-phone and Android over WiFi). Connection information with codes etc. will be sent by email to SFARC members.

Sierra-Norcal Wires-X Room

*Worldwide switched network *Individual radios can join network via Room

*Node can be steered to other rooms worldwide. *Node/Rooms can be monitored on Broadcastify

Clyde explained to the club how All-Star Link is worldwide, more stable and modern with better quality than Echo Link.

PROGRAM

“SOLAR”

By Al/N6ADT

Al has had many years of experience with solar through his personal life, work, and Ham Radio. There are 3 types of solar panels: Poly-crystalline, Mono-crystalline and Thin Film. Panels are set up for “annual average” for the tilt needed. The larger the panel, the better. Al had to use a “man lift”, besides a ladder for his home, which is very solar impressive! He uses a “micro-inverter”, which uses MC4 connectors. The case is aluminum/solid metal. Any solar system has to convert from DC to AC. The next micro inverters optimize the panels. Al’s system cost him a whopping \$12 with a \$3K back!! He admonished us to NOT buy from salespeople, including Home Depot. ☺ Mono-crystalline yields the highest at about 20%, Poly-crystalline about 16%, and Thin Film, the worst at about 11%.

Thank you, Al for your fascinating presentation and your impressive home solar system and for sharing with the club!!

Committee Chair Reports

Repeater Trustee: Clyde/AB4CC reported that the repeater is working well, and he gave thanks to Brian/AI6US, Don/WB6LPJ, and his wife Chris for their help during his infirmity.

Sunshine/Greeters: Roy/WH7QC and Jacob are anxious for the “Donuts and Coffee in the Park” meet and greet happening tomorrow. Brian mentioned that about 85-90 are expected to attend.

VE Exams: Brian/AI6US reported that Raley’s is still not allowing in-person; however, the VE online has been very successful.

Volunteer Events: Chip/KM6MDF reported that the Western States Endurance Training Run is scheduled for May 29-31. The Western States Endurance Run is scheduled for June 26. Joe/K6SAT is chair for both annual events. The TEVIS Cup is scheduled for July 24. If interested in volunteering, contact Rick/N6KLB.

Tech Class Update: Orion/AI6JB reported that there are 16 students in his Tech class. There will be an in-person lab held on May 22.

Satellite: Greg/KO6TH reported that the best time to view the space station is late at night or when it's over the ocean. The passes shift over time.

Web: Herb/KM6JBI had no report but our site appears to be working well.

Groups io: Dennis/WU6X reported that there are lots of new stuff being uploaded.

Contests: Dennis/WU6X reported that there is an upcoming VHF contest and of course Field Day.

Membership: Jeff/KM6RGO was out of town for his daughter's university graduation, but our membership continues to grow. Brian's advice is for us all to "keep it friendly and get folks involved in the club".

ARES: Carl/N6CKV was absent. Our ARES Net is every Sunday evening at 7:30.

EQ Donations and Library: Jim/WA8MPA is in charge of this area and the club is always open to donations from club (and non-club) members.

Adam/A6ADA is providing a 434.250 crossband for our W6EK repeater for "Donuts in the Park". Thank you, Adam for your thoughtfulness!

Chip/KM6MD reported that the first Mel's Diner breakfast in many months (April 24) had 6 members and it was great!

Calendar of Club Events

May 15- "Donuts and Coffee in the Park" at the Meadow Vista Park starting at 9 am. Board members will be served the coffee and donuts. The event is chaired by Brian/AI6US.

May 29- Georgetown Fly-in Station/Booth, chaired by Brian/AI6US.

May 29-31- Western States Endurance Training Run, chaired by Joe/K6SAT.

June 26- Western States Endurance Run, chaired by Joe/K6SAT.

June 25-27- Field Day, organized by Gerry/WA6E

July 24- TEVIS Cup, chaired by Rick/N6KLB.

Announcements

Club Nets-Every Thursday @ 7:30 pm [145.430, PL=162.2]

Elmer Net-Every 1st & 3rd Wednesday @ 7:30 pm [145.430, PL=162.2]

Radio Direction Finder-Every 2nd & 4th Wednesday @ 7:30 pm via Zoom

Coffee Break Net-Every Morning @7:30 am [145.430, PL=162.2]

Club Breakfast-Last Saturday @ Mel's Diner in Auburn @ 7:30 am

Club Board Meeting-2nd Friday of the month (June 11, 2021) @ 6 pm via Zoom

Club General Meeting-2nd Friday of the month (June 11, 2021) @ 7:30 pm via Zoom

Prize Wheel

"Livin' the Dream" button-Michele/WH7QC (designed by Doug/W2VX's wife—so cute!)

Dutch Bro. \$20 gift card-Gerry/WA6E

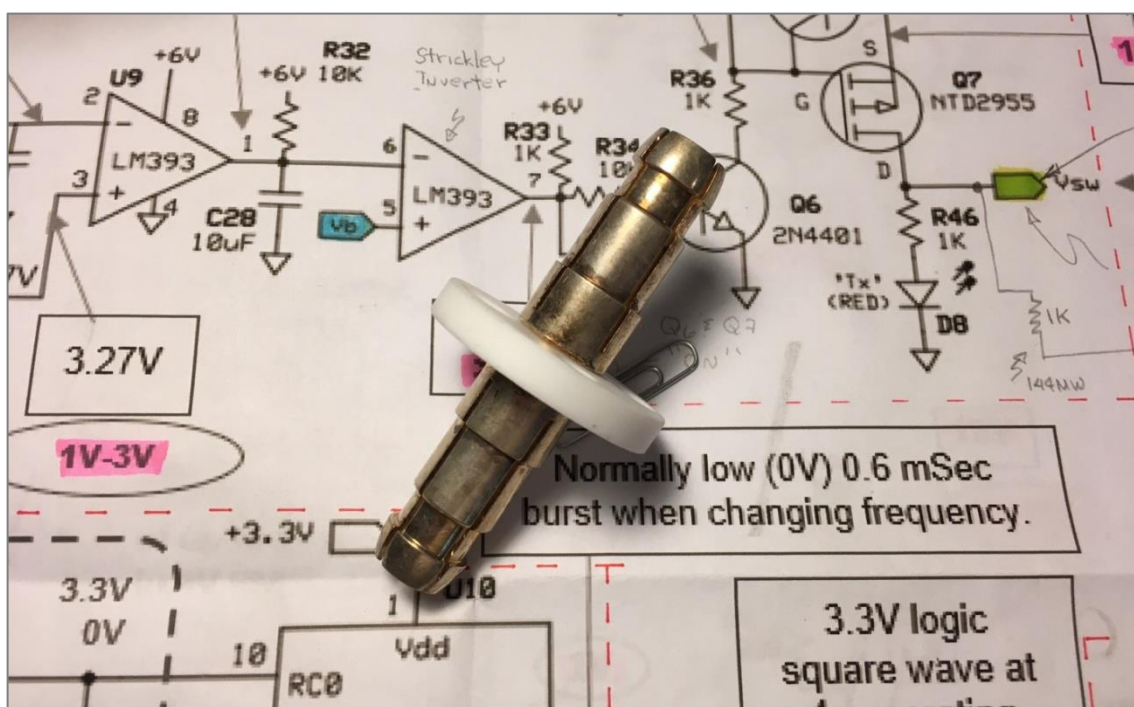
Tablet Soft Carry Case-Greg/KM6YKT

Tiny SA-Greydon/KC6SLE

“Chat Auction”-Field Day Tee Shirt (designed by Bob/K6UDA) donation won by Paul/W2OHV. Thank you for your donation Paul!

Renee, wife of Dave Fortenberry/K6VHP (Recent Silent Key) may attend our “Donuts and Coffee in the Park” event on Saturday, May 15th. That would be wonderful! We look forward to meeting her!

The meeting adjourned at 22:17. Submitted by Michele/WH7QC.



“WHAT IS IT?”

Answer:

This is an EIA 1 5/8 "Bullet" used to connect two sections of Rigid RF line. It can handle more power than Amateurs are permitted to run, but the loss on a long run is much less than any coax. It is used at VHF and UHF frequencies by Broadcasters running moderate power. Full power TV stations use much bigger rigid line (6" and up).

P.S. The holes in the bullet dielectric allow gases to pass through - often nitrogen gas or regular air with the moisture removed.

SIERRA Foothills Amateur Radio Club

P.O. Box 6421, Auburn, CA 95604

2021 MEMBERSHIP APPLICATION

Name: _____ Call: _____ Class: _____ e-mail: _____

Address: _____ City: _____ State: _____ Zip: _____

Associate Name: _____ Call: _____ Class: _____ email: _____

Phone: _____ Cellphone: _____ Application is: (New / Renewal) _____

Dues / Donations:

Membership: yearly*	\$22.00 or 20x__	Name Badge:	\$ 10.00/15.00	Yes (special name) _____
Associate: yearly*	\$ 7.00	Repeater Donation:	\$ _____	
Auto Patch Donation:	\$ _____	Newsletter Booster:	\$ _____	
Misc. Donation:	\$ _____	Christmas Donation:	\$ _____	ARRL member? (Yes/No/Life) _____
TOTAL:			\$ _____	Please add \$1 if paying via PayPal

*Prorated dues for NEW Members/Associates Only

July	\$ 20 /6	October	\$ 14/3 + following year	New - - New - New - Multi-year DISCOUNT Membership *\$20 per year for 2 or more years (new or renewal)
August	\$ 18/5	November	\$ 12/2+ following year	
September	\$ 16/4	December	\$ 10/1 + following year	

OFFICE USE ONLY:	DO NOT WRITE BELOW THIS LINE
Date: _____	Treasurer: _____
Secretary: _____	Roster: _____
Payment: _____	Check Number: _____
Cash: _____	PayPal: _____

Rev. 5-11-2018



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