



P.O. Box 6421 Auburn, CA 95604

September 2015

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At The Key of SFARC:

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History: Gary, KQ6RT
Misc Radio: Fred, K6DGW
Sunshine: Richard, WA6RWS

WEBMASTER:

Birton Gilbert, N6UG

REPEATERS

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

CLUB NET

Thursdays, 7:30PM, W6EK/R
145.430

CLUB MEETINGS

Second Friday of the month,
7:30PM at the Auburn City Hall,
1215 Lincoln Way, Auburn CA

CLUB BREAKFAST

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

NET CONTROL OPS

Dave Jenkins, WB6RBE
Norm Medland, W6AFR
Bob Brodovsky, K6UDA
Al Martin, NI2U

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ARRL PIO:

Carl A Schultz, WF6J

VOLUNTEER EXAMINER

Al Martin, NI2U

Calendar of Events

September 7th:



September 11th:

Club Meeting

September 12th & 13th:

Summits-on-the-Air

September 19th:

Hamfest

September 26th:

Club Breakfast

October 3rd & 4th:

California QSO Party

October 16th – 18th:

Pacificon

Inside this issue:

- *From the Mic*
- *Ham radio news story out of Plumas County*
- *Upcoming Events: Sacramento Valley Hamfest & Pacificon*
- *Miscellaneous Radio: NTS – 21st Century Anachronism*
- *How Much Performance Do You Really Need?*
- *Board & General Minutes*

First day of autumn is September 23rd



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

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From the Mic

By Tyghe Richardson – KD6MLH, President

SOLD

The White elephant sale is coming up!! It's time to get all that cool stuff (commonly called junk) ready for the October meeting. As usual unless we have some pressing business we are going to have a very short meeting and an auction. We will be selling all of the cool stuff that the members bring!! Remember the proceeds go to the Club. I look forward to seeing everyone there, and remember to bring your cash!!

Ham radio news story out of Plumas County on Saturday August 22, 2015:

"Flames and smoke alerted cabin owners and campers to a fire near the Mill Creek Campground at Bucks Lake at 6 a.m. Saturday morning. But neither they, nor the Bucks Lake and Meadow Valley fire departments, nor the U.S. Forest Service were prepared for what would be discovered – a male stabbing victim and a badly burned body..

Stockton resident and long-time Bucks Lake camper Linda Hughes woke up early – she said approximately 6 a.m. – to make a campfire when she spotted flames south of her Mill Creek campsite.

Hughes said she yelled, "We have a fire!" and started a chain reaction to wake up her family, friends and neighboring campers in the other 10 campsites.

Linda Hughes' brother, Quincy resident Brian Hughes, K1BKH – who has firefighting experience and is a local Ham radio operator and member of the Plumas Amateur Radio Club "PARC" – called for help on his Ham radio.

He spoke with Kathy Cotter, KF6CCP in Quincy who passed the information to a 911 emergency operator and Bucks Lake Volunteer Fire Department, Meadow Valley Fire and the U.S. Forest Service were called out."

Click on the link below for complete details of the story:

<http://www.plumasnews.com/index.php/14242-fire-response-at-bucks-lake-leads-to-stabbing-victim-body>

**Ninth Annual
Sacramento Valley**

Hamfest

Saturday, Sept 19, 2015

0700 to 1200 Hours

Presented by Western Placer Amateur Radio Club

65 McBean Park (Hwy. 193), Lincoln CA

Bandstand Parking Lot

License Exam Sessions

Exam Info - Dennis KI6HHA@aol.com

Drawing Prizes

Buy and Sell



**Ham Radio Related Stuff Only
\$10 per space - Approximately 9' x 12'**

Bring your own tables

Refreshments Available

Hamfest Info at WWW.WPARC.US



**Talk-in Frequency
147.300 (+) 179.9**



PACIFICON 2015



ARRL Pacific Division Ham Radio Convention

October 16-18, 2015 at the San Ramon Marriott <http://www.pacificon.org/>

MISCELLANEOUS RADIO

NTS – 21st Century Anachronism

NTS stands for National Traffic System, and surprisingly, while sort of on life support in the age of text messages, email and Skype, it is still alive. Listen on 3533 KHz at 1900 Pacific Time any night of the week, and you will hear a couple of middle aged guys and some really old guys “handle traffic.” If Kate, K6HTN, shows up, it's a bunch of old guys and one middle aged woman. Now, please stifle the obviously burning question of “Why?”, we'll get to that in due time. First, let's delve into the history.¹

In the early days of amateur radio [pre-1920 or so], DX hadn't yet been invented. Anything transatlantic was very much more a carefully coordinated schedule between a small number of stations rather than the widespread “CQ DX” of today. Getting a signal across the Atlantic was no simple feat with equipment of the day, and doing it routinely was highly improbable.² Transpacific contacts hadn't even been contemplated. Hams communicated locally and possibly across a few state lines, for much the same reason we communicate with our radios today ... the fun of it ... all on CW.

Communications then, other than the US Mail, was expensive. “Long Distance” telephone service was very costly, not convenient [area codes had not yet been invented], and often very noisy. Likewise, Western Union telegrams were costly and confined to business and more wealthy folks. Hiram P. recognized early on that amateurs could pass messages for the common folk. It had to be for free and the messages couldn't involve any kind of business, and there were no guarantees that Aunt Minnie would ever get it, but who cares? We'd be on the air anyway, and if someone wants to send Aunt Minnie in Findlay OH love and kisses, why not try and help? He envisioned an organization of amateurs who would do this, and realizing that in most cases it would take multiple stations to get a message any distance, he named the organization the American Radio Relay League.

Passing messages back and forth became one of the larger ham activities, and a structure evolved slowly. It didn't happen overnight, but a message format was developed, local radio clubs would take messages at fairs and community gatherings, and a loose-knit core of operators became known as “traffic handlers.” ARRL even came up with a monthly award for originating, relaying, and delivering messages called the Brass Pounder's League.³ When I began reading QST in 1952 at age 11-12, before I got my Novice license, the BPL was always topped by Mae Burke, W3CUL in PA, and that would continue for years.

In 1949, George Hart, W1NJM, who was one of the ARRL Heavy Breathers⁴ proposed “The New National Traffic System, “ in which he envisioned a more formal and hierarchical structure of increasingly broader “nets,” a formalized message format, and procedures codified in documents that any ham could get from the ARRL. Let's start with the message format.

```
2 R K6DGW 16 AUBURN CA JAN 3
STEVE HAWES WB6UZX AA
1255 CORNELL AVE AA
BERKELEY CA 94706 AA
555 555 5555
BT
NCN1 JAN 2 NCS K6DGW RN6 N6AWH K9JM K6YBV K6RAU
KU6J THREE IN TWELVE ONE LOB
BT
K6DGW
AR N
```

This is a typical report to WB6UZX, the Nor Cal Net manager, of a net session. The top line is the preamble. It is my message number 2, it is a ROUTINE message, it originated at K6DGW, it has a check of 16, and it was originated in Auburn CA on Jan 3. The year is assumed. The check is simply a count of the number of distinct “words” [i.e. anything surrounded by spaces]. His address follows, with each line ended with the prosign AA sent as one character [di dah di dah]. Now days, most messages include a phone number and that's how they're delivered. Occasionally, there will be an email address. The address ends with the prosign BT [dah di di di dah], again sent as one character. Truthfully, I don't ever include his whole address, just his call, we all know him and he is often NCS.

1 As usual ☺

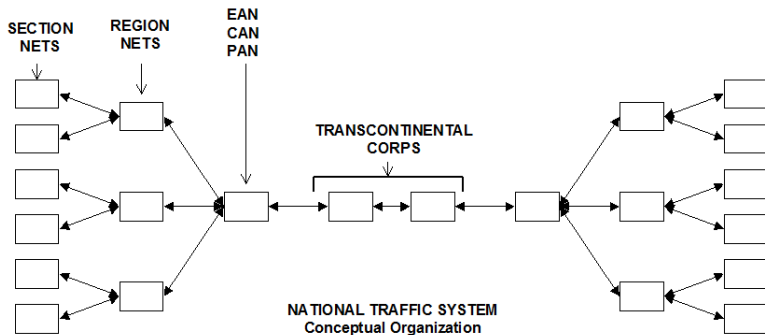
2 Likewise, VHF, repeaters, and handheld radios wouldn't arrive on the scene for 50 years either

3 Record [written] traffic was almost universally handled on CW

4 A term used by Rowdy, my Team Sgt on my combat team when referring to high rank HQ folk

The text of the message follows. Internal NTS traffic such as session reports tends to be a little cryptic, this one translates to: Northern California Net 1st session, Net Control Station was K6DGW, Station going to the 6th Regional Net was N6AWH, a list of other stations checking into the net, and 3 messages were handled in 12 minutes, one could not be handled ["left on base"]. Another BT and the signature, in this case just my call, and AR, [di dah di dah dit], again sent as one character. The "N" signifies that I had no more traffic for Steve. If I did have more, N would have been the number left to send.

Sometime back in the 80's or maybe 90's, they added an optional 3-character "Handling Instruction" code between the message number and originating station in the form HXY, where "y" denotes things like "Cancel if undeliverable," "Report date/time of delivery to originating station," "Delivery by mail OK," and the like.



So, we had a formal message format that everyone would use. George then came up with network structure which is depicted to the left.

Remembering this is 1949, he planned a local net for each ARRL section that would meet in the early evening, probably on 80 meters. Local traffic was just passed to the station nearest the delivery point. One station would be designated to take all outgoing traffic.

The designated station then checked into a regional net organized around the call areas. Some traffic might get routed to the representative from another section net in the region, the rest is passed to a designated station who then checks into one of three area nets, East, Central, and Pacific. Again, some traffic might be routed to another region net in the same area, the rest goes to one of a few stations in the TransContinental Corps. The TCC stations keep agreed upon schedules between themselves and move the traffic to the appropriate station for the destination area net. From there, it goes to the region net, it routed to the right section net, and someone takes it for delivery.

Section and Region nets generally met twice, once early in the evening, about 45 mins apart and again around 2100 or so. Traffic the regional station picked up for the section is handled for delivery sometimes in the later session, sometimes the next day. This was the plan in 1949, and it was working pretty much this way when I first became a General class ham in late 1953 and joined NTS. There have been many changes over the years of course, but the concept is still pretty much as depicted above.

By the dawn of the 21st century, we had outgrown the Section net concept in some places. The 6th Region [California] has 9 sections, 10 if you count everything in the Pacific, and that many section nets proved to be unwieldy, so today, there are two "Section" nets... NorCal [NCN] and SoCal [SCN]. The TCC was complexified some as well to spread the workload and improve delivery times. Several of the other Regions have consolidated their "section nets" into state nets ... Texas is a good example.

I'm not sure it happened in 1949, but by 1954 when I became active in NTS after homework and dinner, the QN-Signals had been made up. In the International Q-Signals list, those beginning with QN are all related to aircraft operations and have no meaning for hams, so they re-purposed them as "Net Q-Signals." You can find them on the ARRL website, search on any of them, QNC is a good one. Some are reserved for the net control station [NCS] to control the net. If you listen to NCN on 3533 at 1900 Pacific, you'll hear them.

The net call-up will go:

NCN NCN NCN DE K6DGW K6DGW QND QNZ QNN K6DGW QNA RN6

NCN is the "call sign" of the net, I sign my call because the FCC tells me I have to. QND means the net is "directed" ... that is, there is a control station and everyone follows the NCS' instructions. QNZ is an instruction to zero beat the control station. It is surprising that in today's world, people need to be told to zero beat the control station, but there are some older folks out there that actually never quite manage to get on the net frequency. I always run my DSP bandwidth out wide, and make sure RIT is on, I can see a couple of the usual suspects on the panadapter and find them quickly without changing my transmit frequency.

QNN followed by a call sign identifies the NCS. QNA technically means, "Answer in a pre-arranged order," but is used by NCS to ask only the station going to RN6, the California regional net, to check in. Following that, the NCS might send:

NCN QNI QTC?

QNI is an invitation to join the net. Stations will send "something" ... a couple of dits, a dah, something really short and one hopes, unique to them. Eric, KU6J, usually sends "U", Bob, K6YBV, usually sends "di dit ... dit" K6RAU sends "di daaaaaaaaah dit." The NCS will respond with that same sign, and the station checks in. Typically:

KU6J QNI GE QTC 1 K9JM K

meaning Eric is checking in, [GE is Good Evening], and QTC 1 K9JM means he has one message for K9JM which will stay within NCN, assuming Jim checks in. If Eric has no traffic, he would likely check in:

KU6J QNI GE QRU K

where the QRU means, "I have nothing for you." You'll hear the prosign AS [di dah di di dit] a lot, it means stand by. All traffic destined for someplace other than NCN is listed as "RN6" and NCS will send the regional rep and stations up or down frequency to clear the traffic. With traffic handled, or left-on-base if no one can deliver it, NCS will begin dismissing the stations. That generally goes:

K6YBV QRU QNX GE, where QNX means you are free to leave the net. Other Q/QN-Signals you might hear are

QNC – Entire net copy [this is usually a traffic list]

QNU – Net has traffic for you.

QNE – Entire net stand by [while NCS collects his mind☺].

QNF – Net is free [usually after everyone has done a QNX].

In addition to the QN signals, a few of the International Q-signals are common:

QRU – I have nothing for you

QTC – Followed by number[s] and destination[s] of traffic the station is holding

QSP – Can you relay [or deliver] to ..., or please relay [or deliver] to

QTA – Cancel the traffic listing [usually when there's no one to take it].

Code speed on NCN varies. I've always felt that there was a trade-off between scaring possible new members off at too high a speed and moving what traffic we have efficiently, and when I worked coastal marine in my senior high school year, the company demanded we stay at 18 WPM if we were in traffic with a ship [circuit chatter often ran faster]. I call NCN at 20 WPM, as do K6YBV, KU6J, and several others. Steve, WB6UZX, often uses a hand key at around 10-13 WPM. And, there are those that like to impress everyone and you'll hear them at 25+ WPM. The second session of NCN is slower speed, around 8-10 WPM, sometimes a little slower. It is at 2100 Pacific, same frequency.

Who sends radiograms these days with email, SMS texts, mobile phones, the Internet, Facebook, Twittter, Instagram...? The answer is, essentially no one. 95% of the traffic is "mined" from the FCC ULS database by a few stations – "Congratulations on your new license, please consider public service;" or "Thanks for renewing ...;" or "Your license is about to expire." For a given originator, they are always the same, they are identified by the check, and no one ever sends the text since we can all find it on ... where else ... the Internet.

That last canned message is not cool, and I no longer deliver it. Most come from N1IQI. Ham licenses in the US are good for 10 years. Lots can happen in 10 years, especially since a lot of hams are fairly old-ish. I delivered two to widows, which was less than great, and the last one I delivered to the widow of a Marine who had been killed in Afghanistan about 3 months earlier. Neither she nor I needed that. I just QTA Loren's traffic now.

Why keep NTS alive? The politically correct answer is that it keeps a cadre of traffic handlers ready to handle emergency traffic. That sadly is kind of a made-up crock. ARES folks have come up with their own, very different message formats and procedures that meet their needs in 2015. Much of their traffic is on digital VHF emulating email, and often a hybrid of the two using WinLink and other gateway systems. Some health and welfare traffic from disasters [Katrina] does leak into NTS, but not much.

If you really want honesty, those of us who keep NTS alive basically do it because we enjoy it, it reminds us of a past time when the traffic was messages between real human beings who knew each other, and it is still fun. People still dress up in armor and chain mail and have medieval jousts. Some people enjoy re-enacting Civil War battles. Some of us enjoy handling meaningless radiograms. It's just one more way to enjoy the hobby.

Some time back the ARRL Board decided that the League was many things but relaying record traffic was no longer one of the major ones, so they changed the "street name" to "ARRL – The National Association for Amateur Radio," which I thought was fairly creative. It preserves the acronym, but describes ARRL much more accurately. I believe the "legal name" remains American Radio Relay League, Inc., however.

We are in the process of moving to Sparks NV and when you read this, I will be QRT and no longer NCS on Wednesday

evenings for an indeterminate period. It's looking like the HOA is quite benign and benevolent and there are several flag poles in the community. I will have one of course, it will be in back because we live in the back part of the house and I want to be able to see it since I fly the flag to remember the four Airmen, two Marines, and one Soldier I lost to combat. It will also have an almost unnoticeable insulator and small box at the bottom. My troopers would have approved. 😊

I have enough so-called content to continue Miscellaneous Radio until the Dec issue of Sierra Signals. As we end 2015, we'll also bring down the curtain on all this drivel. It's been fun delving into mainly [but not always] the past.

73,

Fred K6DGW

PS: My call is 62 years old, it won't change in 7-land.



**Sacramento Valley
Real Estate**

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How Much Performance Do You Really Need?

Submitted by Dan Romanchik, KB6NU

A reader recently e-mailed me:

"Just a quick question - Are you still in the thinking stage about getting an Elecraft K3? Great rigs, aren't they?"

"What I would like you to think about, though, is how many contacts you log in one year's time. If you log 100 per year (check your log) then your cost will be \$50 per contact for that year. If you log 500, then your cost will be \$10 per contact. If you keep that rig for three years, and log 500 contacts over that time, then you will have spent \$10 per contact. Now, consider what that rig will be worth in three years. Will there be something come along that just blows the K3 away in terms of performance?"

I replied:

K3s are great radios. I've just purchased a used KX3, though, so I am not planning on getting a K3 in the near future. I have purchased a 50-W HobbyPCB amp to use with the KX3, so I'm not going full QRP. I make a lot of QSOs/year. My average over the last 13 years is more than three per day, and that doesn't include contacts made with other call signs, such as the club station, or on Field Day. I'm sure that my cost/QSO will be low enough to justify my investment. :)

In addition, rigs seem to keep their value pretty well. I'd guess that you can sell a three-year-old K3 for at least 80% of what you paid for it. I think that one of the reasons that an Elecraft K3 is worth the investment is that Elecraft provides such good customer support, and that they are continually improving their radios. For example, they just came out with a new synthesizer board, with better RF specs, for the K3.

I don't see anyone coming out with a radio that blows the K3 away in terms of performance in the near future, although I might be wrong. FlexRadio has perhaps the best chance of doing that, but you'll have to buy into the Flex user interface philosophy to take advantage of that. I think that Elecraft and Flex, plus the three Japanese manufacturers, will make incremental performance improvements over the coming years, leapfrogging one another as they bring out new models.

One thing to think about is how much performance is overkill? Just like you can now buy a computer that has way more computer power than the average user will ever need, I think that most of these high-end radios offer way more performance than the average ham will ever need. It's cool to look at the Sherwood Engineering receiver tests and see that your rig is in the top ten, but will the average ham actually notice the difference? My guess is probably not.

"Thanks for sparking my thought process on these issues."

My guess is that most amateur radio operators don't think about what the rig will be worth in three years when buying an HF transceiver. Instead, they're looking at what the radios that are currently available cost, and when there's a big price difference between two models that appeal to them, they're trying to figure out if the higher price is warranted. In many cases, the lower-priced model wins out. It's not because the more expensive radio isn't better, but it's not that much better.

It all goes back to how much performance you actually need. Yes, you can probably do more with a \$10,000

radio than you can with a \$1,500 radio, but is it really worth the added expense? In other words, are you going to have more fun with a \$10,000 radio than you are with a \$1,500 radio?

Let me know what you think. E-mail me at cwgeek@kb6nu.com.

I operate CW on 30m and blog about amateur radio at www.kb6nu.com, and I'm the author of the "No Nonsense" amateur radio license study guides and the *CW Geek's Guide to Having Fun with Morse Code*.



BOARD OF DIRECTORS MEETING MINUTES

August 14, 2015

The SFARC Board meeting for August commenced at 1800 hours at the Sizzler restaurant in Auburn.

Roll Call: All officers and Directors were present with the exception of Director Robert-W6RBL. Also present were guests Al-NI2U, Orion-AI6JB, Fred-KF7QVB, George-KG6LSB, Laura-K6LVW and Scott-K6SVW.

REPORTS and DISCUSSIONS

President's Report: Tyghe-KD6MLH began discussion on events, profit vs non-profit. Burton-N6UG commented that each event should be evaluated based on members available and other club commitments. Al-NI2U added the tax exempt status should be reviewed for each organization requesting our assistance.

Tyghe also led a discussion regarding Life Memberships and reviewed the proposals submitted previously by the Club Secretary Bruce-K6BAA. Burton made a motion for adopting two of the proposals, Jim-WA8MPA seconded and the proposals were unanimously adopted. Tyghe will ask the membership at the September meeting for suggestions for awarding the recipient's.

Vice President's Report: Bob-K6UDA reviewed proposals for activities to attract people to Field Day.

Secretary's Report: Bruce-K6BAA had no points for discussion.

Treasurer's Report: Richard-WA6RWS reported net cash on hand at the beginning of July of \$8958.92; deposits of \$125.00, expenditures of \$244.34 with an ending balance of \$8839.58

Richard-WA6RWS and Birton-N6UG updated the board on the status of the repeaters. A Raspberry Pi has been ordered to assist the three upgrade phases: 1- IRLP/Echo Link, 2 - D-Star 3 – VOIP. Burton has received a node number and reviewed the operating procedures. He suggested asking club members for donations for the purchase of a D-Star repeater. Bob-K6UDA advised he would contact an ICOM representative regarding a repeater acquisition. Jim-WA8MPA advised he will attempt to locate a UPS for the repeater(s).

Orion-AI6JB reviewed his work on the Ham Fest and advised the event will be scheduled in March 2016.

Meeting adjourned at 1844. Submitted by Bruce-K6BAA, Club Secretary

GENERAL MEETING MINUTES

August 14, 2015



The SFARC General meeting for August commenced at 1930 hours at the Auburn City Hall Rose Room, President Tyghe-KD6MLH presiding. All Officers and Directors were present with the exception of Director Robert-W6RBL. Tyghe led approximately 45 members and guests in a Pledge of Allegiance to the flag. An introduction of Officers, members and guests followed.

REPORTS:

Past minutes: Minutes were approved as posted in the Newsletter on motion.

President's Report: Tyghe briefly discussed the agenda and reviewed this evening's board meeting.

Vice President's Report: Bob-K6UDA asked for four experienced Elmer's and two to four volunteers for tonight's Ten Tech presentation.

Secretary's Report: Bruce-K6BAA requested input for the club newsletter; advised a welcome letter was available for new members and guests, and a reminder to the membership to sign the attendance sheet.

Treasurer's Report: Richard-WA6RWS reported net cash on hand at the beginning of July of \$8958.92; \$125.00 in deposits, expenditures of \$244.34 and a balance of \$8839.58.

VE's Report: Al-NI2U, VE reported 11 candidates, 16 elements, resulting in 4 new techs, 3 generals and 2 new extras.

Repeater Report: Richard-WA6RWS reviewed the repeaters status and future upgrades. The 220 repeater is currently down. 2 meter and 440 repeaters currently linked.

Refreshments/Drawing: Jason-KK6RXT reviewed items planned for the drawing. Scott-K6SVW reported on refreshments for the break.

Activities: George-KG6LSB asked for volunteers for the Cystic Fibrosis Bike Ride on October 10th and the Enduro October 24th.

Yahoo: Dennis-WU6X advised the membership that the Yahoo group currently has 102 members. The group is a source of information, files and presentations. Dennis gave instructions to receive a summary subscription to reduce emails received. Dennis also reminded members of the upcoming club elections in November and encouraged members to run for office with the president, vice-president and two director positions open for election.

Field Day: Mark-W8BIT asked for planning committee volunteers and advised the first field day meeting will be in September.

Ham Fest: Orion-AI6JB advised the Ham Fest will be on March 12, 2016 and he needs volunteers.

OLD BUSINESS:

None

NEW BUSINESS: Richard advised he had Field Day t-shirts, pins and patches available for sale.

General Announcements: The Club Net meets every Thursday at 7:30pm; Board and General Meetings occur on the 2nd Friday, Board meeting is held at **Sizzler Restaurant** in Auburn, and General meetings at 7:30pm at **Auburn City Hall**. The Club breakfast is held on the last Saturday at **Mel's Diner** in Auburn; an Elmer Net is held the first and third Wednesday night at 7:30pm on the 2m repeater. See www.w6ek.org for more information.

Tech-10 & Presentation: Bob-K6UDA and volunteers delivered hands on presentation on coax connector and antenna construction which was well received and entertaining.

The meeting adjourned at 2100. Submitted by Bruce-K6BAA, Club Secretary

SIERRA FOOTHILLS AMATEUR RADIO CLUB
P.O. Box 6421, Auburn, CA 95604

2015 MEMBERSHIP APPLICATION

SIERRA FOOTHILLS AMATEUR RADIO CLUB
P.O. Box 6421, Auburn, CA 95604

Name: _____ Call: _____ Class: _____ e-mail: _____
Address: _____ City: _____ State: _____ Zip: _____
Associate Name: _____ Call: _____ Class: _____ email: _____
Phone: _____ Cellphone: _____ Application is: (Circle) New Renewal

Dues / Donations:

Membership: yearly* \$22.00 or 20x _____ Name Badge: \$ 7.00 Yes (special name) _____
Associate: yearly* \$ 7.00 Repeater Donation: \$ _____
Auto Patch Donation: \$ _____ Newsletter Booster: \$ _____
Misc. Donation: \$ _____ Christmas Donation: \$ _____ ARRL member? (circle) Yes No

TOTAL: \$ _____ Please add \$1 if paying via PayPal

*Prorated dues for NEW Members/Associates Only

July	\$ 20 /6	October	\$ 14/3 + following year
August	\$ 18/5	November	\$ 12/2+ following year
September	\$ 16/4	December	\$ 10/1 + following year

New---New---New---
Multi-year DISCOUNT Membership
****\$20 per year for 2 or more years (new or renewal)**

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Date: _____	Treasurer: _____	Secretary: _____	Roster: _____
Payment: _____	Check Number: _____	Cash: _____	PayPal: _____