



Welcome to SFARC, Auburn, CA

Sierra Signals



P.O. Box 6421 Auburn, CA 95604

May 2014

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At The Key of SFARC:

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Bob Naylor, WE6C

REPORTERS

Satellites: Greg, KO6TH
History: Gary, KQ6RT
Misc Radio: Fred, K6DGW
Sunshine: Richard, WA6RWS
rkuepper@surewest.net

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

NEWSLETTER EDITOR

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WEBMASTER & ARRL PIO:

Carl A Schultz, WF6J

Calendar of Events

May 3rd & 4th:
Diabetes Walk & MS Walk

May 9th:
Club Meeting

May 26th:
Memorial Weekend



May 31st:
Club Breakfast

June 28th & 29th:
Field Day &
WSER

August 9th & 10th:
TEVIS

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From the Mic

By Tyghe Richardson – KD6MLH, President

A short review of the Baofeng UV-5R

Many of the members of the Club have purchased from this manufacturer. Personally, I have one 2m/220 and one 2m/440 version with aftermarket antennas. I have used my UV-5R's for about a year now without any problems.



Overall they are a very functional handheld radio. When we've tested them, the power output seems to be close to or at the advertised output. The audio quality seems to be very stable and similar from radio to radio. I will say they are much harder to program as compared to other main stream radio products. However, with the use of programming software this is easily overcome. Once programmed, operating the handheld is simple and reliable. My biggest criticism is that they will change from one VFO to the other based on received signal when in dual standby mode. This becomes very inconvenient when in a conversation on one band and it changes VFO. Mostly, I use the radio out of the dual standby mode. For anyone new to ham radio changing VFO's like this is not a normal radio procedure.

As some of you know, I am very hard on handheld radios. This unit has lasted over a year with me, and cost under \$40 at the time I purchased it. As the dual stand by is really the only negative comment I have, I give this radio a B+ over all.

73's for now

Sunshine Report

Dave N6SHD was in the hospital for several days, but is now back home and doing better.
 Chuck AE6LR is feeling "pretty good" as he says after his treatments.
 Please keep them in your prayers for continued healing.

Richard WA6RWS

International DX Convention – A newbies perspective

By Bob Brodovsky, K6UDA

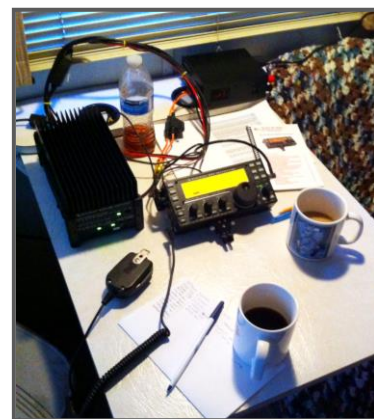
Visalia CA; April 4th & 5th, 2014

Being a relatively new ham, I'm always up for new ham experiences. When Dennis WU6X mentioned the International DX Convention scheduled for early April 2014, I thought it would be an interesting event to see. An added bonus would be the opportunity to meet some of the voices I talk to most weekend mornings on 40 meters, 7.155 (loosely known as group 155).



The WU6X mobile command station is pretty much setup for optimal mobile HF operations and Dennis offered me a spot on his sofa for the weekend. We left auburn on Thursday arriving in Visalia late that afternoon. After setting up camp and pitching a trapped vertical antenna on the Motorhome, we went to the convention center to check things out. Although no events we scheduled Thursday, there was no shortage of Hams hanging out at the adjacent Marriott hotel.

On Friday morning, we got up and tuned the trusty KX3 + new amplifier to the 7.155 frequency and did the morning rag chew



session with the full envy of those who could not make it to the convention. Later, we made our way over to the convention center for the start of the event. Driving into the convention center parking lot was inspiring to say the least. Ham plates seemed to be on every car. Screwdriver antennas were everywhere.

Friday, being the "warmup" day, was pretty much vendor day. Elecraft occupied the most prominent spot being front and center with an entire isle. It was also rumored that they were using the DX convention to announce a new product. I later found out it is a pan adaptor for the KX3 called the PX3; a very cool new toy. There were a plethora of HF related vendors at the show. Array Solutions, Force 12, M2 & StepIR showed off the latest in antennas, HRO brought out the HF related gear for sale, Alfa Radio and Expert Amps displayed some really incredible (and very expensive) amplifiers.

You could find towers, grounding and electrical hardware, software defined radios, an onsite embroidery shop, custom name badges and remote Ham Radio services. This is a very cool service where you can control a remote station of your choosing in another part of the country or even the world from your computer; no radio needed. Dennis WU6X and I both signed up and have tried it out. Very cool toy to make that eastern European contact or see what the propagation is like somewhere else on earth.

What you didn't see was everything else "ham radio". I've got to say, I was a bit disappointed at the booths of radio giants Icom & Yaesu but I suspect both of those companies were saving the goods for Dayton.

The real reason hams from all over the world make the trek to Visalia isn't the vendors. It's the people. This really is an international convention. I met hams from all over the country and around the world. A group from Sweden, Japanese, Brits who just arrived back from a DXpedition were all there. It also occurred to me that the little 7.155 morning group that I frequent on the weekends is quite famous in other parts of the country and world.

We attended several Dxpediton presentations which were fascinating to hear. It's almost mind boggling to think about the logistics involved to get a dozen or so hams to some remote location that no one has ever heard of, has little or no resources to sustain life much less electricity and ship all that stuff, food, water, clothing, shelters, radios, amps, antennas, generators, fuel etc. for a 2 week stay. Operators typically pay thousands of dollars out of their own pockets and work six to eight hour shifts on the radio for the entire two week stay just so we can log places like Navassa, Banaba Island, Myanmar or Amsterdam Island.

If you've never tried DXing, you owe it to yourself to tune into on a Saturday evening and see what all the buzz is about with HF.

See you on the bands,
73,
Bob K6UDA





Show Pride in Your Club - Display Club Apparel

Displaying our LOGO on t-shirts, hats, and jackets, in addition to banners etc., can incredibly raise the awareness of our Club and Ham radio and we can reach people who couldn't be reached before.

Promotional clothing tends to be the most effective out of all promotional venues. Because when we wear them and when meet other friends or pass random people on the street, they are marketing our club and Ham Radio.

Wearing promotional clothing can let us stand out from the crowd. And wearing promotional clothes when going to an event can give us the opportunity to attract many potential candidates for our hobby and club. I have had several people ask me about Ham Radio just because of the baseball cap with our club logo displayed on it.

We now have SFARC W6EK patches for only \$ 3.00 and hats for only \$ 8.00 (without patch). Show pride in our hobby and our club, purchase a couple of patches and put them on windbreakers, hats, and shirts. Our prices are very good. A cap with an SFARC patch is only \$11.00 (ARRL logo caps start at \$ 12.95), ARRL patches are \$5.00, ours are only \$ 3.00, and include heat activated backing. Also, ours include shipping. Caps and Patches will be available at meetings and events such as breakfasts.

ALSO COMING SOON (at the next meeting) we will have several t-shirt designs that are colorful and display the club logo and more on the back. The front of the t-shirt will have the club logo, your name, and call sign. These shirts will be priced very reasonable (less than last year).

Dave NO6NO



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MISCELLANEOUS RADIO

RM-11708 By Fred Jensen, K6DGW

RM-11708 is the FCC's designation for a Petition for Rulemaking filed by ARRL recently, and it is probably the most misunderstood petition before the FCC dealing with 47CFR97 [aka "Part 97"] in a very long time, partially due to inept PR by ARRL. At its heart, the petition is absurdly simple, it seeks to correct a problem in one paragraph of the rules that has been evolving for 3+ decades, and if adopted, it will do exactly that and nothing else.

FCC Rulemaking Process: The FCC rule making process is governed by the Federal Administrative Code. Sometimes, petitions are just dismissed because of various faulty premises or errors in submittal. In this case, it was assigned an RM number and comments and reply comments were invited. That period is over now. Well over 900 ham comments were filed online, it will take a while for the FCC staff to distill them, but the Commission will either dismiss the petition, or schedule it for rule making. Given the interest in it, I doubt they will dismiss it.

If the Commission finds merit in the petition, the next step is for the FCC Staff to draft specific rule changes in Part 97 to implement the petition, or some part or form of it. These would be published as a Notice of Proposed Rule Making [NPRM]. That should include another comment, and reply comments period, the Commission will decide and publish the new rules in the Federal Register. 30 days later, they will become "The Rules."

Current Rules: The applicable sections in the current FCC Rules are 97.305 and 97.307 [there is no 97.306]. 97.305 divides all of the amateur bands into two distinct sub-bands ... Phone/Image and RTTY/Data. CW is permitted in both. For HF, there are three exceptions: 160 meters – "everything everywhere," 60 meters – not a band, and 30 meters – CW/RTTY/Data only. Note that there are no "CW-only" sub-bands at HF.¹

Each sub-band allocation in 97.305 is accompanied by one or more numbered "notes." These notes are found in 97.307(f) titled "Emission Standards and in the main deal with occupied bandwidths. For Phone/Image sub-bands, the occupied bandwidth is limited to that of a "communications quality voice channel *for the modulation type employed*" [my emphasis added ... DSB AM=6KHz, SSB=3KHz, etc].

For the RTTY/Data sub-bands, the shift for FSK emissions is limited to 1 KHz or less and the symbol rate is limited to 300/sec or less, and note carefully -- there is no other explicit bandwidth limit in Hz.² Look at that again. The symbol rate is limited to 300 symbols/second, and that's all there is. Nowhere in the regulations is the permissible occupied bandwidth of a RTTY or Data emission actually limited by a "hard" number in KHz. So, what's going on?, I hear you ask [or thought I did ☺].

History: These sections of Part 97 date back to the 70's. Minor tweaks have been made but the 300/sec limit has remained. In the 70's, data communications was all some flavor of FSK where bit rate = symbol rate, each bit was a "symbol." Occupied bandwidth of an FSK signal is directly related to the raw bit rate of the modulation.³ It so happens that with a bit rate of about 300 bps, the occupied bandwidth of an FSK signal will just fit into a telephone channel ... think Bell 203 modems and ASR33's.

So, if symbol rate is limited to 300/sec, the occupied bandwidth will be limited to about 3 KHz, but by proxy ... "limit the symbol rate, you limit the occupied bandwidth." RTTY [45.5 baud 170 Hz ITA2] and PSK31 and several others are narrow-band emissions. Over time, wider systems were developed such as AMTOR, Clover, and PACTOR with occupied bandwidths approaching 2.1 to 2.4 KHz. All have a symbol rate less than 300/sec, so they are compliant.

And most importantly, any data modulation scheme that is publicly documented and has a symbol rate not exceeding 300/s can be used anywhere in any of the HF RTTY/Data sub-bands. Calling CQ on PACTOR on 14.015, a DX watering-hole, is fine. No one does it, there are no PACTOR stations to talk to on that frequency, just as calling CQ on 14.075 on CW doesn't happen either ... nobody to talk to.

ARRL Petition: Over three decades have passed since 97.307(f) was born. Modulation and Information Theories have seen huge advances in knowledge, and as we saw in the April Miscellaneous Radio, whole new modulation schemes have become feasible. Consider 256-QAM. 16 bits [8 on each of the two orthogonal axes] constitute one symbol – one of the 256 possible points in the code space. The physics has not changed, and bit rate still determines occupied bandwidth, but symbol rate has faded from the equation. If we send 300 symbols/sec using 256-QAM, the bit rate is 16 x 300 or 4,800 bps, and the occupied bandwidth will be about 20 – 25 KHz, and we are still compliant with 97.307(f)(3)!

¹ This has been so for 60+ years, yet many Amateurs believe that there are CW-Only sections in the HF bands. See Old History at end of article.

² Again, see Old History at end of article

³ Basic physics and information theory

RM-11708 asks the FCC to remove the 300/sec symbol rate limit because it no longer serves its original purpose, and to replace it with an explicit occupied bandwidth limit of 2.8 KHz, which is what we were supposed to have all along. That's all it asks.

Why 2.8 KHz? Well, for starters, that's NTIC's definition of a communications quality voice channel and is the bandwidth limit on our five 60 meter "channels," which is a pretty good reason by itself. PACTOR-3, an emission type we have all co-existed with for years, fits into 2.8 KHz, and we can be pretty well assured that the FCC is not going to arbitrarily regulate out of existence an emission type that has been permitted for years and is in fairly wide use. And, 2.8 KHz is roughly what the original symbol rate limit of 300/sec resulted in back in the 70's ... in terms of what's happening on the ham bands, essentially nothing changes short-term. Long-term, new, very wide modulation schemes, which could have appeared under current rules simply won't.

PACTOR-4? PACTOR-4 has an occupied bandwidth of about 2.4 KHz, however its symbol rate is well over 300/sec. PACTOR-4 would be permitted under RM-11708. It is only a tiny bit wider than PACTOR-3, and none of us non-PACTOR ops care what it sounds like. For all of us without a PACTOR-x decoder, we won't care. But, if RM-11708 becomes regulation, someone firing up a 1.5 KW 20-25 KHz 256-QAM signal on 7.100 MHz won't happen. And, that's the goal of the ARRL petition.

The Comments: Well over 900 Amateurs filed comments to RM-11708 on the FCC's on-line system. For a time RM-11708 was the most active FCC action. Of the ones I read [~200], about 5% were just rants ... diatribes against ARRL, emissions types other than what the ranter used or liked, and a handful were rants against how the FCC conducts its business. I'm not sure how or why anyone would think that would work. 😊

Perhaps 40-45%, mainly CW operators it seemed, were vocally against the petition, and most of the arguments made no physical sense. In most, it was obvious they hadn't read the rules or the petition. About half of the comments were positive, short and direct. I guess if you're in favor of something there isn't much else to say.

While taking the time and effort to file comments on the FCC's proposed actions is positive and shows our interest in our resource that are the ham bands, comments that are just rants or that are not grounded in fact do serious and possibly irreparable harm to our credibility with our regulating agency.

Everyone gets to form their own opinions and beliefs about this petition, you probably have figured out mine by now, but all I ask is ... if you file comments with the FCC, please base them on facts. It will increase our credibility with them and we really need that.

73,

Fred K6DGW

Old History: I reached 60 years as a licensed ham radio operator last year -- I was 13 in 1953. Prior to 1951 or 1952, the ham bands were divided into Phone and CW segments, with CW at the bottom of each band. CW was permissible in the phone segments but not the other way around. At that point there were three classes of HF license creatively named Class A, Class B, and Class C.⁴ Everyone had CW privileges everywhere and B's/C's had phone privileges on all then-available bands except 20 and 75, reserved for Class A. Class C's were issued to people who couldn't get to an FCC Examination Office.

In the early 50's the FCC did away with A, B, and C, and created General, Advanced, and Extra. They also created a 1-year, non-renewable Novice license, and, the Class C became the Conditional.

Right around the time that I became KN6DGW, the FCC authorized the use of radioteletype in the HF CW sub-bands. 850 Hz shift, 45.5 baud [~60 WPM] ITA2 [Baudot] only. Most hams who tried it used WW2 surplus teletype equipment and the signal bandwidth was around 1.7 KHz. Drift was a problem in those days of analog VFO's and transmitters so the effective bandwidth was more like 2.5 - 3 KHz. When the FCC did this, the CW-only segments of the HF bands became shared with RTTY ... and they have been ever since.

In the 70's, "RTTY" was opened to ASCII as well as ITA2. Computer equipment was appearing in amateur hands by this time, the FCC realized that whereas RTTY was humans talking to humans at 60 WPM with plain text, introducing ASCII would undoubtedly lead to computers talking to computers in "languages" only computers understand. The fact that bit rate directly predicted bandwidth led to the 300 symbol/second limit. Since everything "data-ish" at that time was one flavor or another of FSK, that 300/sec limit was effectively limiting the transmissions to no wider than a conventional telephone voice channel. It would have been much better if they had limited the bit rate, but they didn't and we can't rewrite history. Fast forward 3+ decades and we find RM-11708 attempting to correct this problem.

⁴ There was also a "Technician-type" license usable only on the "Ultra-highs," 56 Mcs and above.

I Operated 5KW - Legally

By Earl Wilson, K6GPB

I wish to share my experiences participating in the International Marconi Day with the Maritime Radio Historical Society. Some background information is presented along with the operations.

Marconi Day

Guglielmo Marconi was born on April 25, 1874. International Marconi Day, a Saturday closest to Marconi's birthday, was organized by the Cornish Amateur Radio Club. The Day celebrates the contributions Marconi made in the invention of radio. On this day amateur radio operators contact various historic Marconi sites using similar commercial communication techniques.

KPH

The commercial radio station KPH was originated in 1905 at the Palace Hotel in San Francisco with the call letters PH (Palace Hotel). The 1906 earthquake caused the station to be relocated several times until it received its permanent home with the transmitter site at Bolinas and the receiving and control site at Marshall, both sites in Marine County. Federal regulators added the K prefix to the call. KPH became one of the wireless giants of its day and was a famous call sign throughout the world. The station closed down in 1999 with the advent of newer communications technology.

K6KPH

Amateur radio station K6KPH using some of the KPH transmitters and antennas, with the 5KW transmitters reduced to 1.5 KW. This station operates weekly. This year for International Marconi Day K6KPH was set up at the remote receiver site in Marshall, California now known as the Marconi Conference Center State Historic Park. Normally the receive and control site at Point Reyes. The Society transmits from the former KPH Bolinas site on various medium and high frequency waves. Commercial operating procedure is used as much as possible for the amateur contacts. This is one of several dozen of the special event stations around the world used to earn an award certificate.

KSM

In addition to K6KPH, commercial station KSM currently uses the same sites. The call letters KSM were originally assigned to the Robert Dollar Company in Los Angeles. The Maritime Radio Historical Society was assigned the call letters when they were granted a commercial coast station license. KSM is normally on the air each Saturday from 1700GMT to 2300GMT. The transmit frequencies are 426, 500, 4350.5, 6474.0, 8438.3, 12993.0, 16914.0, and 22445.8. Four of the transmitters, each at 5KW, were operating April 26, 2014 from the same remote site as K6KPH.



Operating at K6KPH and KSM

I took advantage of the opportunity to travel to Marshall, CA to participate as an operator. Operating K6KPH enabled many CW contacts to be made, with the contents included sending QRK and QSA instead of the RST. Since I also hold a Radiotelegraph Operator's Certificate I was able to operate at the KSM position. A general message honoring Marconi on this Day was sent on four of the commercial frequencies. In the photograph I am at the KSM operating position getting ready to send the message. It was a pleasure to operate at a historic site with historic equipment using CW.



BOARD OF DIRECTORS MEETING MINUTES

April 11, 2014

The SFARC Board meeting for April commenced at 1800 hours at Round Table Pizza in Elm Avenue shopping center in Auburn.

Roll Call: All officers and Directors were present except for Mark-W8BIT and Jim-WA8MPA. Guests present were Al-NI2U, Jim-N6MED, Mike-K5CWV, Ralph-W6RWL, and Bob-K6UDA.

REPORTS and DISCUSSIONS

President's Report: No report, but discussed the agenda planned for the General meeting.

VP/VE Report: Dave-NO6NO showed the hats and badges now available for purchase. VE reported that (21) candidates took (37) exams with (11) Techs, (5) Generals and (1) Extras passing ... 15 new hams!

Secretary's Report: nothing to report; however, Dennis-WU6X suggested an ad-hoc committee to setup chairs for each General meeting, as the Officers are typically setting up speaker systems, welcome table, any exhibits, etc. making it difficult to be involved. Discussion: the Board agreed to bring the topic up at the General meeting and that the "chair committee" should also take responsibility for securing the key.

Treasurer's Report: Richard-WA6RWS reported net cash on hand at beginning of March, expenses, income and balance, of which approximately \$770 is un-allocated to budgeted items. The Board also discussed the general fund vs. the repeater fund. Richard reported that the Veteran's Hall voted not to charge the Club for rent of the Veteran's Hall for our Christmas party. The Veteran's Hall was looking for donations towards upgrading the sound system at the Hall. Dave-NO6NO moved to donate \$100 to the Veteran's Hall towards upgrades to the sound system; 2nd by Robert-W6RBL, passed unanimously.

Repeater: Richard – WA6RWS reported he will be attending the NARC meeting in Concord on Saturday and asked if any of the Officers or Board would like to join him.

Directors: Robert-W6RBL requested relief from Chair for the White Elephant Auction due to family issues. Tyghe-KD6MLH released Robert of responsibility and assumed the Chair position.

OTHER DISCUSSIONS

Guests: Al-NI2U reported on his efforts and options in constructing the bob-tailed curtain antenna for FD2014.

Meeting adjourned at 1840. Submitted by *Dennis Gregory-WU6X, SFARC Secretary*

GENERAL MEETING MINUTES

April 11, 2014



The SFARC General meeting for April commenced at 1930 hours at the Auburn City Hall Rose Room, President Tyghe-KD6MLH presiding. All Officers and Directors were present except for Jim-WA8MPA and Mark-W8BIT. Carl-WF6J, PIO was also present. Tyghe led approximately 53 members and guests in a Pledge of Allegiance to the flag followed by an introduction of Officers, members and guests.

REPORTS:

Past minutes: Minutes were approved as posted in the Newsletter on motion by Al-NI2U, 2nd by Birton-N6UG; passed.

President's Report: Tyghe-KD6MLH introduced his Father who will deliver the feature presentation on wills.

Secretary's Report: Dennis-WU6X reminded the membership to sign the attendance sheet. And, that he would be

programming Baofeng HT's at the break.

VP Report: Dave-NO6NO modeled the hats and badges now available for purchase.

Treasurer's Report: Richard-WA6RWS reported approximately \$770 un-allocated to budgeted items at the end of March. Richard also reported that the Veteran's Hall generously voted not to charge the Club for rent of the Hall for our Christmas party. The Board voted and approved a \$100 donation to upgrading the sound system at the Veteran's Hall.

Membership: no report

VE's Report: Dave-NO6NO, VE reported that (21) candidates took (37) exams with (11) Techs, (5) Generals and (1) Extra passing ... a total of 15 new hams.

Repeater: Richard-WA6RWS reported he would be attending the NARC meeting in Concord on Saturday and invited anyone wanting to attend to join him.

Picnic Committee: Jeremiah-W6DLO reported on event dates (May and June) available and the need for \$105 to secure the site. Mike-K5CWV moved to spend \$105 to reserve the site, 2nd by AI-NI2U; passed. The date agreed by the Membership will be July 26th as the May/June dates conflicted with other planned activities.

Committees Reports: Field Day-2014: Dick-WB6EDR reported on Field Day Committee discussions and agreements. Bob-WE6C will be moving during FD and may not be able to participate, so Dick generously agreed to assume Committee Chair.

Sunshine Report: Richard-WA6RWS reported on passed President and member Wayne Mikel (KE6DJE) wife Melissa passing, and that Dave-N6SHD is in the hospital with heart problems.

Refreshments/Drawing: George-KG6LSB reviewed items for the drawing including a digital clock.

OLD BUSINESS:

Shelved Motions: A shelved motion from last meeting by Bob-K6UDA, to purchase tri-plexers for FD2014, was withdrawn by Bob, so moved & 2nd; the motion for withdrawal passed unanimously.

NEW BUSINESS:

Donations: Ralph-W6RWL reported on a donation from Tevis Cup of \$200 to the Club for support of their events. Bob-N6EMS moved to place the donation in the Repeater Fund only, 2nd by Gene-KB6NYH; passed unanimously.

Chair Setup Committee: Tyghe-KD6MLH requested volunteers to setup the room before each meeting as the Officers and Board are typically focused on setting up sound system, welcome table, projector and exhibits. Several volunteers raised their hands.

Event Opportunities: George-KG6LSB reported on events planned for 2014, the Diabetes Walk and MS Walk scheduled for May 3rd and 4th, respectively. Please contact KG6LSB if you are interested in participating in these events. Ralph-W6RWL reported several events needing volunteers for communications support; Western States (June 28th and 29th), Tevis Cup (August 9th and 10th) plus a "training run" on May 24th where the Forrest Service has requested communications be present; lastly, Ralph asked for volunteers for the Canyon 50k run (May 3rd); please contact Ralph-W6RWL for more information or to volunteer.

General Announcements: The Club Net meets every Thursday's at 7:30; Board and General meetings occur on the 2nd Friday; Board is held at Round Table Pizza at 6pm, and General meetings at 7:30. Club breakfast (last Saturday), the Elmer Net is held every other Wednesday night at 7:30pm. See W6EK.org for more information or date changes.

Presentation & Tech-10: Dave-NO6NO presented a short video on ISS and satellite communications for Tech-10. Toby-KD6MLU gave a very informative presentation on developing wills to protect your equipment for donation when you die.

The meeting adjourned at 2116. Submitted by Dennis-WU6X, Club Secretary

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

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

2014 MEMBERSHIP APPLICATION

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	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

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