



P.O. Box 6421 Auburn, CA 95604

February 2014

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

At The Key of SFARC:

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tyghe@tjrauctions.com

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Dave Albright, NO6NO

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

Barbara Anderson, W6EVA
916.624.1343
anderson51@starstream.net

WEBMASTER & ARRL PIO:

Carl A Schultz, WF6J

Calendar of Events

February 8th:
SFARC CQ Contest

February 14th:
Club Meeting

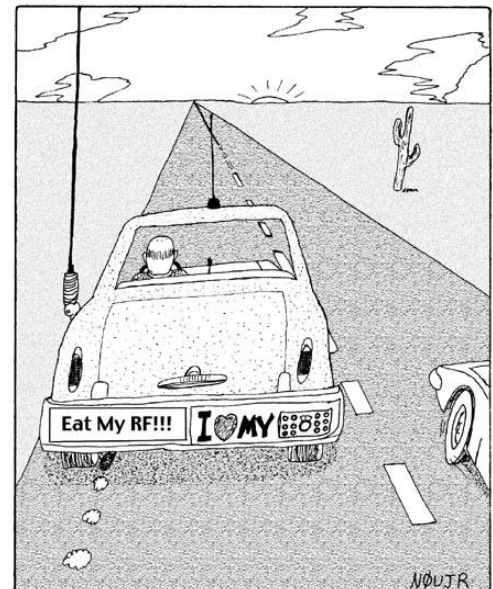
February 22nd:
Club Breakfast

May 4th & 5th:
Diabetes Walk & MS Walk

June 28th & 29th:
Field Day

Inside this issue:

- *From the Mic*
- *SFARC CQ Contest*
- *Miscellaneous Radio – Summits On The Air*
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- *Board of Directors Meeting Minutes*
- *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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From the Mic

By Tyghe Richardson – KD6MLH, President

**THE CONTEST IS COMING!
THE CONTEST IS COMING!**

I have one question for you... Does your voice ever get hoarse on the radio or in life?

This could be a vocal care problem, and as an auctioneer I work with this every day. Some of the vocal training I have received is in voice care and what to watch out for. There are several things that can add to vocal fatigue; pushing your voice, medical problems, your posture, yelling, vocal lubrication, cold temperature, and of course a cold.

The human voice can make many sounds and change pitch to mimic sounds with such ease that sometimes we do not know when we are doing it. Over a period of time doing this we can damage the voice; the best thing is to talk in your natural timber. With enough repeated damage, surgical correction can be needed. There are several tricks to rest your voice; saying your name or saying UHHU works very well. These two phrases help in resetting the muscles around the vocal folds and reset the vocal system. It's just like rebooting a Windows based computer only faster!

Lubrication of the vocal folds is very important. We do this through liquids and saliva. There are some liquids that are better than others for lubrication; cold beverages, alcohol, and caffeine are not good for your voice. Caffeinated and alcoholic drinks actually dry your upper vocal system out. A cold drink on a warm voice rapidly cools the vocal folds and muscles around them. It is like running a mile, putting your legs in an ice bath, and then running more. That's right cramp city! This is why you do not see singers drinking ice cold water during a performance. According to some professionals the ideal drink for lubricating a voice is room temperature water.

Good posture when talking or working DX is a must. Our voice starts down low in the diaphragm and is simply shaped by the vocal folds and the mouth. If your posture is off, you cannot give the air needed to properly supply the voice. It's like most things - if you have one weak part then the others work harder. Improper posture will make the muscles that control the vocal fold work harder and stress your voice.

Professional voices: singers, actors, motivational speakers, and auctioneers are more likely to be affected by nodules than the average person. However, hams talk more than most people and I think without proper care could be affected like the pros. There are several good publications on this topic and if anyone would like to read more I can point you in the right direction. Of course, if you are currently having problems you should see a doctor.

Some suggestions of how to keep your voice going all day:

Before you key up, sit up. Then stay in your natural vocal range, low or high your voice is your voice. A good way to rest the voice is to say your name. We often say our names and therefore it is in our natural range. So, QSL the name here is TYGHE, you're 5 9 in California, etc. If I just got that RARE DX or broke the pile-up and QSL was high and excited, then my name should put me back on to the right pitch and stop stressing my voice. As for lubrication, I drink warm decaffeinated tea when auctioneering or talking on the radio. But I don't wait till my voice is dry; I start lubricating before I start talking.

73's for now and have a good contest!

SFARC CQ Contest - Official Rules

The first SFARC CQ contest is only days away. These are the most current rules. Also take a look at the list of club members and the numbers (This list should be attached to this newsletter email). You can download this list on the website and the yahoo site too. Club members will give out their number as part of the contact exchange (i.e. K6UDA, 59, # 105). If you download the list you can mark off other members as you go along. For non member contacts, the information you'll need for your log will be something like "NA0TX, 59, CM98" (a grid square) or location code. Hope to work all of you on the 8th.

73

Bob - K6UDA

(916) 871-0726

K6UDA@att.net

The Basic Contest Rules

- Open to all licensed Amateurs
- Contest will run from 0000Hrs to 2359 Hrs PST on February 8th, 2014
- **Exchange will be call sign + signal report + member number (for members).**
- **Exchange will be call sign + signal report+ grid square or country (non-members)**
- Players can call "Sierra Foothills Contest"
- Each contact counts for one point. Each band or mode counts for one point. (You can contact the same player on each amateur band and or mode for one point each)
- Points awarded to participants for logging calls and being logged (How many times do you show up in other peoples logs)
- **Bonus points awarded to new hams & new club members**
 - *Members licensed within six months (August 2013) get a X 2 multiplier*
 - *New members (who joined the club since August 2013) get a X 1.5 multiplier*
 - Example; if you are a new ham, each of your contacts are worth 2 points
- Hams outside the club can play but their logs only count toward the most contacts in member logs category. Non-members do not receive point multipliers.
- Submit your logs in Cabrillo format. Hand logs will be accepted. All logs must be received by May 1st, 2014. Please send your logs to:
 - SFARC CQ Contest**
 - PO Box 584**
 - Penryn CA 95663**
 - Or you can **email** your log files to: K6UDA@att.net
- Costume contest rules: players must submit a photo of themselves in costume at their operating station, bearing "proof of life" i.e. Newspaper front page, something on the Web, etc...

Frequency list

HF

- 10 Meters - 28.330 to 28.400 Techs welcome
- 12M - 24.940 - 24.945
- 15M - 21.305 - 21.325

- 20M- 14.305 - 14.325
- 40M - 7.200 - 7.240
- 80M - 3.880 - 3.900
- 160M- 1.900 2.000

UHF VHF

- 6 Meters - 51.000 USB 51.150 FM
- 2 Meters - 144.200 USB 147.100 FM Simplex. W6EK repeater
- 220 Band - TBD
- 440 Band - 443.500 FM
- 900 Band - TBD
- 1200 Band - TBD

Awards given for

- Most contacts made award - given to the club member with the most contacts in his/her contest log. (Must be backed up by the contact's log entry) ((Multipliers count))
- Most contacts in other member logs award - given to the ham who's call sign is in the most members logs (open to all amateurs)
- 6 month license award (most contacts from a member new licensee)
- Ten Mode Award - given to the member who can make verified contacts in LSB, USB, AM, FM, DV, CW, RTTY, PSK, EME, Satellite, or other mode you can pull off
- DX Award. Furthest contact of a member station. (Any mode, repeaters & internet are included)
- The Semper Dolosus Award (*Hint* there's a clue posted here)
- Best costume while operating (Must attach picture)



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MISCELLANEOUS RADIO

Summits On The Air

There has been some conversation on the W6EK Yahoo Group about Summits On The Air [SOTA], and since I've been involved with the programme for several years, I thought we'd detour from the "Coding and Ham Radio" series for a month and talk about SOTA. The spelling of "programme" should clue everyone in that this fun addition to ham radio originated in the UK. First, a little history [by now you're surely not surprised! ☺]

Many years ago, I don't remember when I first heard of it, the Radio Society of Great Britain [RSGB] conceived of "Islands On The Air" or IOTA. The general concept was to assign an identification code to all the islands of the world, and then to come up with awards for "activating" them or working someone on the island. There were some problems. Just like Newton's Second Law ... $F=ma$... that governs how everything moves in the universe, and which looks simple but is really a 2nd order partial differential equation for which, at least so far as we know now, has an analytical solution only for exactly two bodies in space with no others.

IOTA's first problem was, "Exactly what defines an island?", closely followed by the fact that, even if you decide, "I'll know an island when I see it," there are millions of "islands" on the planet. In our Sacramento-San Joaquin Delta, we have many islands. While we normally think of an island as Big Water/Little Land, the only difference in the Delta is that they're Big Land/Little Water. Today, IOTA islands must be in open water. The Farallon's are IOTA NA-178¹, but Angel Island is not an IOTA island, it's inside the Bay². And IOTA went to Island Groups to reduce the number of individual identifiers needed. NA-178 is more than one island and most IOTA identifiers apply to island groups.

While "chasing" IOTA activations takes place from your shack, and can be a lot of fun, islands are generally hard to get to, not to mention somewhat expensive as well. I don't know much the Farallons expedition cost my buddy Rick, but they went and came back via helicopter.

Not too many years ago, again in the UK, a new programme was established very similar to IOTA, except that one activated registered summits. And again, the concept is simple ... "Establish a registry of summits around the planet, you climb them with a radio, make contacts, and get points" ... at which point it gets very complicated. As with IOTA, rules were developed, and the British being fairly civilized and organized, did a great job. There is a "Management Team" [MT] in the UK that administers the programme, and basically sets and adjusts the rules.



The basic [and almost only] qualification for a summit to be registered is its prominence. This is a difficult term from Orometry, the "science of uneven surfaces" like the surface of the earth. The technical definition ... "The minimum vertical distance you must descend from the summit before you begin to ascend to a higher summit" ... doesn't help much. The point where you begin to ascend to a higher summit is called the "key saddle."

Mt. Everest's prominence is its elevation above sea level. Denali in Alaska is the highest summit in North America. Its key saddle is the Panama Canal because you have to descend to almost sea level before ascending to a higher summit [Aconcagua]. Mt. Whitney is the highest summit in the Lower 48 of the US at 4,418m [14,491ft]. It's prominence is 3,071m [10,075ft] because you have to descend 4,416ft from its summit to its key saddle before

you begin ascending to a higher summit. I have no idea where that key saddle is, but I suspect strongly that it is somewhere to the north, Canada has higher mountains.

In general, SOTA registration requires a prominence of 150m [p150] or greater, which is taken to be 500ft in places that are still inching their way to metric. Some places are very flat-ish [FL comes to mind]. In these cases, and governed by some other rules, the MT will allow registration of p100 summits. There is exactly one p100 qualifying summit in Mississippi. Summits are all cataloged at www.sotawatch.org under the *Summits* link at the top. The photo above is me climbing in the Rough and Ready Hills in SE New Mexico with Mike, KD5KC, on our way to W5N/RO-15.

¹ SE Farallon was last activated by Rick, K6VVA, in Feb 2007.

² Angel Island is a SOTA summit however, Mt. Livermore W6/CC-075 is. [<http://sotawatch.org/summits.php?summit=W6/CC-075>]

The MT tackled the problem of a nearly uncountable number of summits on the planet by dividing the surface into "Associations." In Europe and many other places, Associations are synonymous with countries. In places where there are only a few very big countries, they are divided more finely.³ For the US and Canada, they started out as call areas and provinces, and still are in Canada and some in the US [W1, W2, W3]. However, just in the US, the number of qualifying summits, particular in the western half of the country is staggering.

The ID scheme had already been cast into a stone database in the UK: "AA/RR-NNN" where AA denoted the Association, RR is the region within the association, and NNN is a 3-digit ID within the region. California has over 3,800 probably qualified summits and the W7 call area over 4 times that many.

So, over the last couple of years, the larger call areas have been divided into separate associations based on state boundaries, and a letter was added to the Association designator. It's pretty much complete now, the last Association to become active is Hawai'i, and there have been rumblings from KL7 which may be next. The photo above is on the summit of W5N/RO-015. I made 34 QSO's on 20 and 15 CW, including two DL's who know Mike. I had driven down for an impromptu gathering of 5 of my troopers from my combat team, Mike lives in El Paso, is very active in SOTA, and I had met him after Andrea and I had "adopted" his son James in Iraq. The following day, we activated Mt. Locke, W5T/DE-003 in the Davis Mountains. I need to activate in 2 more associations and I'll be a Mountain Hunter. ☺ I had also worked Mike on W5N/RO-015 earlier from home as a Chaser, so activating it myself gives me one "SOTA Complete," and I worked Elliott, K6EL, who was on a California summit for my first Summit-To-Summit [S2S].



If you're interested in SOTA, the first thing you want to do is read the rules at www.sota.org.uk which also describes the award structure. SOTA does not mandate QRP, although other rules mean that the vast majority of QSO's from a summit are low power.

Some of the SOTA rules will seem a little vague. They are and it is intentional. For example, "Final access to the activation point must be non-motorised." Many newcomers ask, "How far do I have to hike?", and the answer is, "As far as you believe you should to meet the spirit of Summits On The Air." The goal is inclusion, not exclusion. If you're in a wheelchair and you and a friend drive to the top and he pushes you a few feet away from your vehicle, you've met the requirements. I'm a little orthopedically challenged, W5N/RO-015 was about my limit. W5T/DE-003 was a walk-up, there is a UT observatory on top.

Mobile equipment does not count, neither you nor any of your equipment can be attached to a vehicle. There are times when the hike from where you can park is too much, but you can drive to the summit. In those cases, most load up their pack hike down and then back up.

The photo at left is Rich, NU6T, when we activated Leviathan Peak W6/SN-039, in 2011, and our plan was to do just that. It turned out that the gate about a half-mile down the road was locked, so we parked at the gate and made a normal ascent on foot to the

top.⁴

You can activate a specific summit for activation points once per UTC year. If you go back again within the year, you get no

³ Associations become active when people within them petition the MT and submit an Association Reference Manual defining the valid summits.

⁴ I was still using my Buddipole at that activation. It's configured as a ground plane in the foreground.

points but all the chasers you have QSO's with do. An activation day runs from 0000Z to 2359Z. If you're on the summit at 2359Z [1600PST], you will be in a new activation day in 60 seconds.

The other thing you must do before taking off to activate is to read the Association's ARM for the summit you're going to activate. You can find them at www.sota.org.uk at the Associations link at the top. There are things that must be done on an association-by-association basis such as setting the "point bands," and defining the summer/winter bonus periods. The ARM also defines the Activation Zone. This is the maximum vertical distance you can be from the physical summit [which may be unsafe to occupy] and still activate it. There is a summit in the Coast Range that you can activate from inside a Taco Bell. ☺

Activation and chaser points are based on elevation, and within each association, the MT tries to have the point bands sort of normally distributed ["bell curve"], 10% 1-pointers, 10% 10-pointers, more in the bands in between. This results in some disparities. 10-pointers in the Appalachians are in the 4,000 foot range while in the Rockies and West, they are at 13,000 and 14,000 feet. If it was done continent-wide however, those in the east would have no summits over 4 points.

SOTA is a fairly cool marriage of ham radio with outdoors activities we can all do without requiring a helicopter to enjoy it. If you are interested, you should join the NASOTA Yahoo Group, there are a lot of people there with experience. It's unrestricted, just join. Equipment varies a great deal. Li-Poly and LiFePO4 batteries are the most popular power. I usually activate with my K2. Antennas also vary, the end-fed half-wave wire is very popular. I sold my Buddipole and got an Alexloop and I like it a lot.

Feel free to contact me if you have any questions or need some help. Oh, in the NASOTA Group, you will find me answering to "Skip" rather than Fred. There are a couple of other very active "Fred's" so I use the nickname my troopers gave me to cut down on confusion.

73,

Fred K6DGW

2014 COMMITTEES AND CHAIRPERSONS

ARES, Chuck Minton KG6FFK
 Christmas Party, Gene Freeland KG6NYH
 Contest, Bob Brodovsky K6UDA
 Field Day, Bob Naylor W6GC
 Greater, Richard Kuepper WA6RWS
 Membership, Ron Etchells KK6DHJ
 Newsletter, Richard Kuepper WA6RWS
 Nomination/Election, OPEN
 Picnic, Jeremiah De La Ossa W6DLO
 Raffle, George Simmons KG6LSB
 Repeater, Richard Kuepper WA6RWS
 Refreshments, Jim Jupin WA8MPA
 Satellite, Greg Dolkas K06TH
 Sunshine, Richard Kuepper WA6RWS
 VE Exam, Dave Albright N06NO
 Volunteer Events, George Simmons KG6LSB
 Webmaster, Carl Schultz WF6J
 White Elephant, Robert Bell W6RBL

If you are reading this then you can volunteer to be the committee chairperson for this years election. Do not forget - if you are on the Nomination/Election committee you cannot be elected. We have 4 helpers lined for this committee, so don't be shy - Volunteer!



BOARD OF DIRECTORS MEETING MINUTES

January 10, 2014

The SFARC Board meeting for January commenced at 1750 hours at Round Table Pizza in Elm Avenue shopping center in Auburn.

Roll Call: Newly elected President Tyghe-KD6MLH and all officers and Directors were present for the first meeting of the New Year, along with new Directors Robert-W6RBL and Jim-WA8NPA and returning Director Mark-W8BIT. Past Presidents Al-NI2U and Bob -K6UDA, and Mark's XYL Toni attended as guests.

REPORTS and DISCUSSIONS

President's Report: Tyghe discussed agenda items, one of which was our weekly net. Tyghe suggested that the "list" be comprised of members only, with all others designated as guests. This would simplify the "list" as well as make it easier for control operators to call roll. The Board agreed and Bob-K6UDA agreed to communicate this to the other net control operators. A possible Elmer committee was also discussed; no decision.

VP/VE Report: Dave-NO6NO discussed woven patches and hats with the Club logo are being looked into with pricing TBD. Dave reported on the upcoming Tech-10 presentation planned (How to become a VE) and the desire to start a new General exam study guide on W6EK; the new Tech pool of questions due in July; and possible scholarship ideas. Relative to the VE session, Dave reported (2) new Techs and (1) Extra passed.

Secretary's Report: Dennis-WU6X to prepare a letter to Nyack formally requesting the site for FD2014.

Treasurer's Report: Richard-WA6RWS reported net cash on hand at beginning of September as \$5,372.30; expenses of \$763.87; income of \$941.48 and balance of \$5,549.91. He reviewed 2013 income/expenses and the 2014 budget; and reported a membership count of 36 new members (paid) and 68 renewals to date. A suggestion was to get our Sacramento Valley Section Manager Ron Murdock, W6KJ to present information on ARRL and membership at an upcoming meeting to promote new members joining the ARRL.

OTHER DISCUSSIONS:

Motion by Richard-WA6RWS, 2nd by Mark-W8BIT, to spend up to \$100 for plaques/awards for upcoming Club contest – passed. Dave-NO6NO suggested a Baofeng drawing at an upcoming meeting; no decision. Mark reported that he and Bob-WE6C were working on a FD2014 "dry run" sometime in March. Jim-WA8NPA reported on custom name tags for guests available for tonight's General meeting, and that decaf coffee would be discontinued due to lack of interest – coffee from Starbucks. Jim volunteered to try an audio system he owns for the next General meeting, to help with hearing in the back of the room.

Richard discussed an email from Gene that the Veteran's Hall was available for early booking for next year's Christmas party scheduled for December 13th. Robert-W6RBL moved to lock-in the reservation, 2nd by Jim-WA8NPA; passed.

Field Day 2014 T-shirts and other items were discussed briefly; Dave-NO6NO to investigate options and pricing and present designs to the Board.

Meeting adjourned at 1837. Submitted by *Dennis Gregory-WU6X, SFARC Secretary*

GENERAL MEETING MINUTES

January 10, 2014



The SFARC General meeting for January commenced at 1930 hours at the Auburn City Hall Rose Room, President Tyghe Richardson-KD6MLH presiding. All Officers and Directors were 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 actually a report of the Christmas Party and not “officially” posted for approval. They were approved by the Membership, none the less.

President’s Report: Tyghe briefly discussed the agenda and then called for Officers’ reports.

VP’s Report: Dave-NO6NO asked for program suggestions and committee participation in 2014. Dave discussed an upcoming Tech-10 presentation planned (How to Become a VE) and the desire to start a new General exam study guide on W6EK; non-event T-shirts, hats and Club patches planned for sale this year as well as for FD2014 badged items. Dave also talked about a scholarship fund being considered by the Board.

VP’s Report: Dave-NO6NO reported (2) new Techs and (1) Extra passing exams. A low turn-out was reported due to several factors.

Secretary’s Report: Dennis-WU6X requested input for the “events calendar”; a Welcome letter available for new members and guests, and to remember to sign the attendance sheet.

Treasurer’s Report: Richard-WA6RWS reported net cash on hand at beginning of September as \$5,372.30; expenses of \$763.87; income of \$941.48 and balance of \$5,549.91.

Satellite Report: Greg-KO6TH reported on the latest “Cube Sat” ventures with many different missions, some destined to support educational experiences for students, including AMSAT-UK “Fun Cube” communications opportunities now available online.

Repeater Report: Richard-WA6RWS reported a Repeater Committee to be convened soon.

Sunshine Report: no report

Refreshments/Drawing: George-KG6LSB reviewed items for the drawing including the now ubiquitous digital clock and results from the Christmas Party drawing; Jim-WA8NPA reported on refreshments including brownies, cookies, and Starbucks coffee. Jim also discussed name tags available for guests and new members to give others a chance to get to know them.

Website URL Renewal: Carl -WF6J reported our URL W6EK and website hosting has been extended per direction from the Board.

OLD BUSINESS:

Committees: Tyghe reported on committee volunteers to date, and requested others participate when asked.

Contest: Bob-K6UDA reported on details (and prizes) for the upcoming Club Contest. The Contest will run from 0000 to 2359 PST on February 8th, 2014.

NEW BUSINESS:

Field Day 2014: Bob-WE6C reported on plans for FD2014 and upcoming committee meeting to discuss options available and any new ideas. Field Day is planned for the weekend of **June 28th thru 29th**. Getting logging computers programmed in advance of this year was discussed and anyone planning to operate (and/or log contacts) should contact Dennis at wu6x@hotmail.com to schedule a time/date.

Baofeng Programming: Dennis-WU6X reported on having brought his computer, software, cables, etc. to program member's Baofeng HT's during the break and after the meeting. Note: at least 5 members took advantage of the service and Dennis plans to have this available next month as well.

Veteran's Hall: The Board decided to use the Veteran's Hall for the Christmas Party this year and has locked-in the date for Saturday evening December 13th.

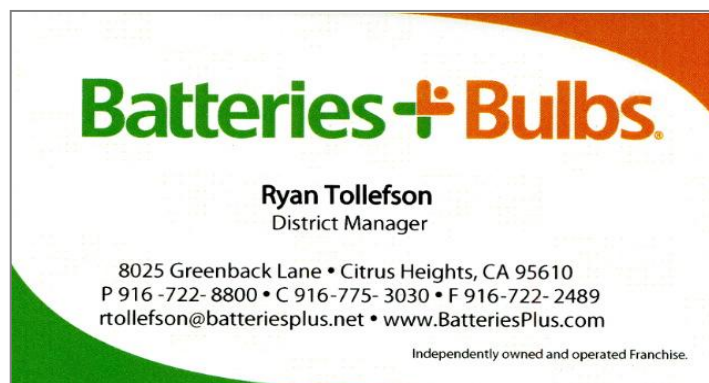
Committees & Volunteering: Gene-KG6NYH volunteered for the Christmas Party committee; Donna-W6CQX for "presents" for the Christmas Party; Jeremiah-W6DLO, Mike-N6BRP and Richard-WA6RWS for the Picnic Committee; several were interested in volunteering for the Nominations Committee which was shelved until next meeting.

Event Opportunities: George-KG6LSB reported on two events planned for 2014, the Diabetes Walk and MS Walk scheduled for May 4th and 5th, respectively. Please contact KG6LSB if you are interested in participating in these great events.

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 on opposite Wednesday nights at 7:30pm. See W6EK.org for more information or date changes.

Presentation: No Tech-10 was planned, but Sonja Vargas from CalStar "air ambulance service" gave a very interesting presentation on the service and reminded Group membership is available for only \$35/year for individual family.

The meeting adjourned at 2111. 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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Date: _____ Treasurer: _____ Secretary: _____ Roster: _____

Payment: _____ Check Number: _____ Cash: _____ PayPal: _____