

CLUB STATION  
K6SON

# Short Skip

The Newsletter of

**Sonoma County Radio Amateurs, Inc.**

P.O. Box 116, Santa Rosa, CA 95402-0116 707-579-9608

<http://www.sonomacountyradioamateurs.com>

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REPEATER STATION  
W6SON

Volume 39, Number 10

October 2014



## October SCRA Update

by Pat Coyle, KG6JSL  
SCRA President

Summer is over and we are still waiting for rain, but I hope everyone had a good time playing radio over the past few months.

There was certainly plenty to do.

Thanks to Jim Draeger, KI6REK, and his crew for putting on the Club End of Summer Picnic and to Lee Dibble, KE6EAQ, for allowing us to use his home, yard and pool. The food was great, the kids had a good time and the fox hunt by Brian, N6IY was challenging.

Darryl, KI6MSP, and his crew established an SCRA presence at the Pacific Coast Air Museum annual air show with radio displays and demonstrations as well as Club promotional material.

Craig, K6XLT, organized the radio communications for the MS Society's two day bike ride with thousands of riders going from San Francisco to Sonoma County. Very busy radio event that was essential to the safety and smooth operation of the event.

First up for October is the regular meeting program on October 1. This program's subject will be Emergency Communications. It will feature guest speakers from ARES, COPE, Salvation Army and the City of Santa Rosa Amateur Emergency Communication Services. These speakers will describe their programs, their plans for the future and the role amateur radio plays in

their programs. This may be the first and best program describing the broader picture of amateur radio emergency communications in Sonoma County and anyone interested in Emergency Communications should attend this meeting.

On the public service front, Levi's Gran Fondo, with 7,500 crazed bike riders is October 4 and we will provide the radio support. Craig, K6XLT, will again honcho this event. Full description is on the Public Service page of the Club Website, or contact Craig.

John Chavez, KG6PEP, is again active in the Boy Scouts Jamboree on the Air the weekend of October 18-19 in Santa Rosa. This event is a "hands on" demonstration of radio and provides instruction for the Boy Scout radio merit badge. Although sponsored by the Boy Scouts, girls are welcome and active in this event. Radio operators and instructors are wanted to help out in this fun activity. Contact John or visit the Calendar on the Club Website.

Continued on page 5.

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## Editor's Message

As you can tell, this month's issue of Short Skip is being published quite late. I'd like to offer my sincere apologies for that. A job change, minor family illnesses, and some technical difficulties all contributed to things going off the rails this month. I will do my best to not have it happen again. Thanks for your patience.

Donald  
WE4MOO



## 2014 Club Officers

President	Patrick Coyle coylaw@sonic.net	KG6JSL
Vice President	John Felton	KE5RI
Treasurer	Mike Von der Porten	AD6YB
Secretary	Dave Harrison	W6IBC
Director	Doug Payne	KF6LMB
	Jeff Tonelli	KI6PBF
Past President	Charlie Sikes	KZ6T

## Committee Lineup/Contacts

Activities	Darryl Paule, KI6MSP	ki6msp@arrl.net
ARES Liaison	Charlie Sikes, KZ6T	kz6t@arrl.net
DX/Contest	Kevin Alt, K6BSG	kalt@ieee.org
Education	Jeff Tonelli, KI6PBF	jeff.tonelli@gmx.com
Emergency Services	Charlie Sikes, KZ6T	kz6t@arrl.net
Field Day	Brian Torr, N6IYY	n6iyy@arrl.net
License Trustee	John Felton, KE5RI	jrfke5ri@aol.com
Media	Sutter Laird, KI6ZON	ki6zon@me.com
Membership	Mike Von der Porten, AD6YB	mikevdpc@aaim.com
Merchandise	Iola Beckley, KK6HRE	cope@srcity.org
Programs	John Felton, KE5RI	jrfke5ri@aol.com
Public Service	Craig Gaevent, K6XLT	k6xlt@sonic.net
Raffle	John Chavez, KG6PEP	kg6pep@arrl.net
Refreshments	Robert Jones, WA6NIV	wa6niv@arrl.net
Repeater	Jack Christensen, K6ROW	k6row@sonic.net
Volunteer Exam	Brian Torr, N6IYY	n6iyy@arrl.net

## Short Skip & Web Staff

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SCRA Web site	<a href="http://www.sonomacountyradioamateurs.com">http://www.sonomacountyradioamateurs.com</a>

## Tuesday Night Net

Remember to check in to the SCRA net each Tuesday evening on the 147.315+(PL 88.5) repeater at 7:00 PM. Announcements are made of upcoming SCRA and other amateur radio activities in the broadcast.

## Short Skip Advertising Rates

Business Cards	\$12 per month
1st Quarter Column	\$13 per month
Each Additional Quarter Column	\$4 per month
Full page (one side)	\$35 per month
Pre-printed inserts (each)	\$35 per month

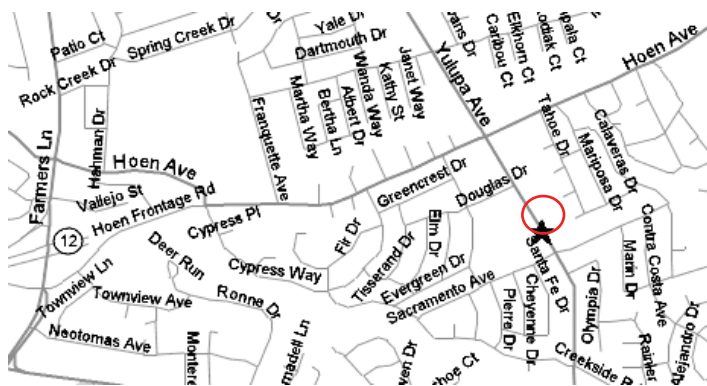
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## SCRA Club Meetings

The club normally meets the first Wednesday of each month at 7:00 pm. Exceptions are holidays or other big events.

Meeting location:  
Luther Burbank Art & Garden Center  
2050 Yulupa Avenue  
Santa Rosa, CA



All are welcome!

Please join us at our next meeting. Anyone interested in Amateur Radio may be eligible for membership. A membership application is included in this newsletter. For more information, contact any SCRA officer, director or member.

## Hungry before the meeting?

Join us for dinner! We Meet at IHOP restaurant, 4th and Famers Lane, Santa Rosa.  
People start showing up at 5:15 PM.  
No RSVP is required.

See you there every month except December.

If you are not getting the ARRL San Francisco Section news by e-mail and you are an ARRL member, be sure to subscribe under your Members Only information or go to this Web site:

<http://www.arrl.org/Groups/view/san-francisco>



## Sonoma County Radio Amateurs Membership Meeting Minutes

September 3, 2014

Meeting called to order at 7:05 PM by President Pat KG6JSL. A quorum was present.

**Picnic Announcement:** The club picnic will be held on Saturday September 13, 2014, at Lee Dibble's home (KE6EAQ). The club will provide all of the food, and Brian N6IIY will organize a hidden transmitter "fox hunt". A sign up sheet was circulated by Doug KF6LMB.

**Program: Technical Questions and Answers.** A panel of SCRA members, including John WB6FRZ, Brian N6IIY and Dave W6IBC, was moderated by president Pat KG6JSL. A number of questions and answers concerned antennas, baluns, and antenna modeling software. A question concerning restoring a Halli-crafters SX100 including replacement or renewal of electrolytic power supply capacitors provoked a lively discussion. Doug KF6LMB discussed a problem he experienced with newly introduced power breakers which have an arc detection capability. These breakers were being tripped when Doug used his ham transmitter. The manufacturer replaced the breakers with breakers less sensitive to ham radio emissions. Dave W6IBC presented and briefly discussed the application of the Arduino microcontroller board to ham radio projects including the TenTec Rebel 506 open platform SDR radio.

Guests and new members who attended last weekend's SCRA-sponsored Technician class were introduced all of whom successfully passed the FCC license exam and are awaiting their licenses. Terry KK6DQC upgraded from general class to extra class. Congratulations to all.

Business Meeting began at 8:20 PM after a break. A quorum of members was present.

Minutes for July Membership Meeting were approved on motion by John KE5RI, second by Jeff KI6PBF.

There were no director or officer reports.

Activities Chair Darryl KI6MSP reported that he will be making a presentation at this year's Pacifcon conference concerning the STEM program. Deb KK6HRD

agreed to participate with Darryl and present a teacher's perspective. Darryl needs volunteers for PCAM and for the information booth at the Gran Fondo bicycle event.

Repeater Committee Chair Jack K6ROW reported that the voter receiver continues to work well.

Education Chair Jeff KI6PBF reported that the August Technician class resulted in three new licensees, as well as one ham who took the class as a refresher and update course. Jeff noted that a station assembly class will be held this next Friday evening, September 5th at the American Red Cross offices in Santa Rosa.

Public Service Chair Craig K6XLT needs volunteers for the MS Waves to Wine bicycle event (conflicting with PCAM this year) and for Levi's Gran Fondo bicycle event. Sign up via the SCRA website or contact Craig directly.

**Emcomm:** Iola KK6HRE, COPE communications coordinator for Santa Rosa, discussed ongoing efforts to organize COPE amateur radio communications in the neighborhoods, at the fire stations and at the Emergency Operations Center (EOC). There are COPE radio drills on Monday evening. Chair Charlie KZ6T reported that next month's program will concern local EMCOMM preparedness and will feature Eric AA6EM and Lee KE6EAQ to discuss the local activities and plans.

**VE Liaison:** Brian N6IIY reported that last Sunday's open VE session, combined with the Technician class, had seven successful examinees out of nine candidates.

**Merchandise:** Chair Iola KK6HRE displayed the new orange logo tee shirts, available in all sizes for \$12.00 each. She also has a small supply of the older club-logo shirts available for \$10.00 apiece. She is awaiting seven or eight new orders for emergency vests before placing an order. She will arrange name and patch customization of members' existing emergency vests for a nominal fee, depending on the work to be done.

**Refreshments:** Iola KK6HRE described the evening's offering (courtesy of Iola and Carrie Breckenridge) and

Continued on next page.







## September Member Minutes, continued.

Old Business: Doug KF6LMB reported upon progress in updating the club "breadbox" storage trailer.

New Business: Pat KG6JSL reported that the Board will consider next steps relating to the raffle. Charlie KZ6T reported that he is linking the club IRLP node to the Outdoor Adventure Net on Thursday evening, and asked for participation and feedback by interested members. Joe K6AWA noted that there appeared to be an unusual crowding of Chinese broadcast stations on 40 meters. Pat suggested that Joe contact the ARRL and make them aware of his concerns.

Net Control Assignments for September:

9-9 Darryl KI6MSP  
9-16 Charlie KZ6T  
9-23 Brian N6IYY  
9/30 Craig K6XLT

Meeting adjourned at 8:43 PM.

Respectfully submitted,  
David Harrison W6IBC  
Secretary

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## SCRA Board of Directors Meeting

September 10, 2014  
Minutes

Regular Board Meeting called to order by President Pat KG6JSL at 6:14 PM at IHOP Restaurant, Fourth St at Farmers Lane, Santa Rosa. All Board Members were present including Vice President John KE5RI, Secretary Dave W6IBC, Treasurer Mike AD6YB, Director Doug KF6LMB, Director Jeff KI6PBF and Past President Charlie KZ6T. Other SCRA members attending included Brian N6IYY, Darryl KI6MSP, Iola KK6HRE, Jack K6ROW, Jim KI6REK and John KG6PEP.

Minutes of the August 2014 Regular Meeting of Board were approved on motion by John KE5RI, second by Charlie KZ6T. Mike AD6YB summarized the state of the treasury. There were no other officer or director reports.

Picnic: Chair Jim KI6REK reported that he has received 45 RSVPs for the Club Picnic to be held this next Saturday, September 13th at Lee Dibble's home. Jim and his crew will be starting setup around 9:15 AM. Brian N6IYY will provide a hidden transmitter fox hunt activity.

Jamboree On The Air: John KG6PEP announced that there would be a one-day JOTA this year to be held at the Scouting Office on Sebastopol Road in Santa Rosa on Saturday October 18th from 9AM to 5PM. He is asking for SCRA volunteers for three ham stations and also requested use of the SCRA IRLP Repeater node for that day.

Activities: Chair Darryl KI6MSP summarized his planned presentation at Pacificon relating to his work with the STEM educational program and provided Board members with web links to resources and information. He plans to write articles and provide radio interviews relating to this project. He has a full crew for the PCAM Wings over Wine Country Air show, but needs volunteers for the Club Booth at the Gran Fondo, and for the Science Fair on Nov. 1st at the Fairgrounds from 11AM to 4PM.

ARES: President Pat KG6JSL reported upon a meeting he had with the SF Section Manager Bill KH6GJV concerning Sonoma County ARES. Bill is looking for a ham to become the ARES leader. Pat stated that SCRA would not lead ARES, but expected our members to be active in emergency service groups organized and managed outside the Club, such as ARRL's ARES, Santa Rosa COPE, Oakmont COPE, Salvation Army, Red Cross, ACS etc. SCRA remains willing and ready to provide resources such as its repeaters and training for ham radio volunteers interested in supporting emergency communications groups and efforts. The October meeting will be devoted to emergency communications.

Membership: Mike AD6YB reported the club has 134 members.

Merchandise: Chair Iola KK6HRE reported the availability of small emergency vests, and offered to provide members with vests including the club Logo patch but without personalization.

Continued on next page.





## September Board Minutes, continued.

Public Service: President Pat reported that the Waves to Wine event on 9/20 and 9/21 needs more ham radio volunteers.

Raffle: The Board approved a motion by John KE5RI, second by Dave W6IBC, to continue the membership meeting raffle as a 50% split of proceeds to each of two winners. In favor: John KE5RI, Dave W6IBC, Doug KF6LMB, and Jeff KI6PBF, opposed Mike AD6YB and Charlie KZ6T. John KG6PEP will continue as Raffle Chair.

Repeater: President Pat KG6JSL raised a concern about the number of beeps and noise burst on the VHF repeater squelch tail. John KE5RI said he would look into the matter and report back to the Board.

VE: Liaison Brian N6IIY said the next open VE session will be October 25th at 9AM at the Bennett Valley Grange Hall

### Old Business:

Director Doug KF6LMB reported that the Breadbox had been organized and outfitted with a storage/shelving system. John KE5RI noted that the trailer needed a larger battery to support lighting as well as emergency braking.

For now, the Club dinners will continue to be held at IHOP Restaurant.

### New Business:

On motion by Dave W6IBC, second by Jeff KI6PBF, the Board authorized sale and/or distribution of donated radio equipment at the October membership meeting. Anything not sold would be stored or recycled, depending on the item.

The Nominating Committee for 2015 will be Pat KG6JSL, Charlie KZ6T, Iola KK6HRE, and Darryl KI6MSP. Vice President John KE5RI and Director Doug KF6LMB are completing their second year of service and are termed out of office.

On motion by Mike AD6YB, second by Dave W6IBC, the Board authorized a Member of the Year Committee to be formed by the President in accordance with the Bylaws.

Brian N6IIY agreed to prepare the meat, and Dave W6IBC and Joy KI6ASJ agreed to provide table decorations, for the Club Christmas Party on December 3rd.

With no further business the Board meeting adjourned at 7:45 PM.

Respectfully submitted,

Dave Harrison W6IBC  
Secretary

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## President's Message, continued.

Nominations are also now open for this year's Member of the Year. The Board of Directors authorized a Committee to select a member of the year, and nominations from the Members are welcomed. Nominations must be submitted to Pat, KG6JSL, by October 4th and the Nominee will be submitted to the Board for approval at the October Board meeting. Send your nomination to me at [k6son@arrrl.net](mailto:k6son@arrrl.net).

October is also the time to get serious about election of members to the Board of Directors at the November meeting. The Board has established a Nominating Committee to recruit members to serve on the Board as Officers or Directors. Frankly put, new ideas are needed to keep the Club active and viable. The Club does not work unless everyone contributes and participates. Anyone who is interested in and willing to contribute to the future of the Club in any capacity should contact me, or Iola, KK6HRE, Darryl, KI6MSP, or Charlie, KZ6T. The Club needs your service.

Pat, KG6JSL

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## Member Of The Year

Each year a Member of the Year is selected and nominations are now being solicited from the membership. This is the Club's premier award in recognition of outstanding contributions to the Club during the past year. The member is selected by a Committee and approved by the Board of Directors at its October meeting. Please submit your nominee to Pat, KG6JSL, at [k6son@arrrl.net](mailto:k6son@arrrl.net).





## Sonoma County Radio Amateurs Membership Meeting Minutes

October 1, 2014

Meeting called to order at 7:01 PM by President Pat KG6JSL. A quorum was present.

Officers and Directors were introduced. New Members and Guests included Dwane K6UMC, Wayne KK6WRR and Sandy Scheingold, wife of member Harvey KK6KQZ.

Program: Emergency Communications Roundup. Representatives of local agencies and organizations relying on amateur radio in emergencies explained their emergency communications ("emcomm") activities, so that SCRA members could better understand emcomm opportunities and choose an agency or organization to support.

City of Santa Rosa was represented by IT director and SCRA member Eric McHenry AA6EM. Eric shared his vision for the City's emergency communications structure and operation. He described the City's Emergency Operations Center.

ARRL ARES was represented by Bill Hillendahl KH-6GJV, San Francisco Section Manager. Bill reviewed the history of the Amateur Radio Emergency Service and the local ARES organization and opportunity for training and ARES accreditation for amateur volunteer communicators during an emergency. ARRL's ARES has memoranda of understanding with many agencies and organizations throughout the US.

Santa Rosa COPE was represented by SCRA member Lee Dibble KE6EAQ who explained that COPE is made up of neighborhood teams to survey and report damage and help neighbors during an emergency. Radio communications to fire stations are handled by Family Radio Service (FRS), while inter-fire station communications are handled by volunteer amateur radio operators.

Salvation Army's SATERN was represented by Gary KI6TEW, assisted by Wayne KK6WRR. Gary reviewed the history of SATERN and described its ham radio emergency communications capabilities and aspects. SATERN has a national organization and provides

amateur radio communications when more traditional networks are not available.

President Pat KG6JSL thanked the presenters and explained the role of SCRA as a facilitator of amateur radio emergency communications, and not as an emergency communications service provider. SCRA has repeater equipment available for emergency use, and provides training to assist its members and all radio amateurs in gaining proficiency in handling traffic through training and public service events. Pat's vision is to increase amateur radio emergency communications training opportunities.

Business Meeting began at 8:10 PM after a break.

Sutter KI6ZON reported the challenges he experienced in obtaining the application for ham radio vehicle license plates.

John WB6FRZ will be leading a caravan to Ham Radio Outlet on Saturday October, 4th leaving from the Coddingtown Parkinglot at 8:15 AM.

Activities Chair Darryl KI6MSP needs volunteers for the information booth at the Gran Fondo bicycle event and for the North Bay Science Fair. He thanked the members who supported the SCRA booth at the local Wings over Wine Country air show.

Picnic Chair Jim KI6REK reported that although 47 members indicated they would attend the picnic, only 23 people actually showed up. Nonetheless, Jim indicated he'd probably arrange a picnic again next year. Jim thanked Lee KE6EAQ for the use of his lovely home, and thanked Brian N6IY for arranging the fox hunt.

Education Chair Jeff KI6PBF noted that the next Technician class will be held at the Bennett Valley Grange Hall on November 7-9. There are no current plans to hold classes for the higher class licenses, and Jeff may consider using mentors instead of classes.

Public Service Chair Craig K6XLT noted that Levi's Gran Fondo bicycle event wraps up this year's public service calendar. Craig thanked all those who helped out at public service events in 2014.

Continued on next page.







## Member Meeting Minutes, continued.

Repeaters: Committee Member Charlie KZ6T reported that problems continue with the IRLP Node. The problem is understood but is not yet resolved.

VE Liaison: Brian N6IYY reported that the next open examination session will be October 25th from 9 AM to Noon at the Bennett Valley Grange Hall. All test elements will be offered.

Raffle Chair John KG6PEP explained the new raffle arrangement approved by the Board, Bill KH6GJV donated two ARRL 100 Year Anniversary Coins to the raffle.

John KG6PEP also called for ham radio volunteers for the Scouting Jamboree on the Air to be held at the Scout headquarters at 1000 Apollo Way, Santa Rosa, on October 18th.

Merchandise: Chair Iola KK6HRE displayed the new orange logo tee shirts, available in all sizes for \$12.00 each.

There was no old business.

New Business: President Pat KG6JSL solicited nominations for Member of the Year to be sent to him not later than October 4th.

He also reminded the members that club elections of officers and directors would be held at the November business meeting. All offices are available for candidates, and the current Vice President John KE5RI, and Director at Large Doug KF6LMB are termed out of their offices.

Net Control Assignments for September:

10/7 Darryl KI6MSP  
10/14 Sutter KI6ZON  
10/21 Frank NQ6E  
10/28 ED W1EJ  
11/4 Brian N6IYY

Section Manager Bill KH6GJV reminded the members that the ARRL Pacific Division Conference, PACIFICON will be held on October 10-12 in Santa Clara.

Meeting adjourned at 8:43 PM.

Respectfully submitted,  
David Harrison W6IBC  
Secretary

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## Summer Picnic Photos



Fox Hunt #1 winners Bob, WE6L, Ruth KJ6BHF and Ellen KJ6BHG



Fox Hunt #2 winners Ellen KJ6BHG and friend





## Sonoma County Radio Amateurs

### Board of Directors Meeting

October 8, 2014

#### Minutes

Regular Board Meeting called to order by President Pat KG6JSL at 6:27 PM at IHOP Restaurant, Fourth St at Farmers Lane, Santa Rosa. Board Members were present included Pat, Vice President John KE5RI, Secretary Dave W6IBC, Director Doug KF6LMB, Director Jeff KI6PBF and Past President Charlie KZ6T. Treasurer Mike AD6YB was absent. Other SCRA members attending included Brian N6IY, Darryl KI6MSP, Dan WA6CRB, Iola KK6HRE, Jack K6ROW, Jim KI6REK and Sutter KI6ZON.

Minutes of the September 2014 Regular Meeting of Board were approved on motion by Jeff KI6PBF, second by Doug KF6LMB. There were no officer or director reports.

Picnic: Chair Jim KI6REK summarized the 2014 Club Picnic, and offered several suggestions to improve turnout of those who positively RSVP'd, including, for example, a refundable deposit to encourage attendance.

Activities: Chair Darryl reported that the PCAM Wings over Wine Country Air show went well, with 11 potential Tech Class attendees. He also said the booth at the Gran Fondo event went well, considering it was on a very warm day. Darryl still needs volunteers for the Science Fair on Nov. 1st at the Fairgrounds from 11AM to 4PM. Darryl asked the Board for guidance concerning an ARRL-conducted local teacher training program for STEM. The Board suggested that he work closely with ARRL and its Field Service unit, led locally by Bill KH6GJV, ARRL SF Section Manager. Darryl will follow up with ARRL.

Emcomm: President Pat made a written inquiry concerning status of the Santa Rosa COPE program and has not received a definitive response from Santa Rosa. Pat reiterated his view that SCRA is not an emergency communication services provider, but rather a support organization for other groups who provide emergency communications. The Board voiced its support for this viewpoint.

License Trustee/NARCC Rep John KE5RI reported that no one has proposed infringing on the club's repeater frequencies by seeking a coordination from NARCC.

Media: With no October Short Skip presently available, Darryl KI6MSP agreed to contact Donald WE4MOO, Short Skip Editor, to see if he wishes to continue in his role. Darryl will report back to the Board as soon as he has a chance to speak with Donald. If Donald is unwilling to continue in his role as Editor, the Board will find and appoint a replacement.

Merchandise: Chair Iola KK6HRE inquired about locating a supply of club logo stickers.

Public Service: President Pat reported that the Gran Fondo communications effort was a success.

Repeater: President Pat KG6JSL again raised a concern about the static noise bursts on the VHF repeater squelch tail. John KE5RI said there was nothing he could do about that matter as it probably was generated in each user's receiver, rather than in the club repeater system. John removed the "double" burst, and now only a single burst appears in the squelch tail.

#### Old Business;

The Nominating Committee will meet following the board meeting. Presently, Pat KG6JSL and Jeff KI6PBF intend to seek reelection to their respective offices. Secretary Dave W6IBC has declined to run for a second term. The committee has not heard from treasurer Mike AD6YB concerning his intention to seek reelection.

#### New Business:

On motion by John KE5RI, second by Doug KF6LMB, the Board recommends to the membership that 2015 club dues be reduced to \$30.00 for family membership; \$20 for member/associate membership; and, \$15 for student under 18 membership. The motion was unanimously approved, based on the healthy present state of the club treasury.

Continued on next page.





## Board Meeting Minutes, continued.

Holiday Party December 3rd. Brian N6IIY agreed to obtain and prepare the meat entrees. John KE5RI will provide miscellaneous ham radio door prizes. Dave W6IBC will purchase a 2 meter mobile rig at Pacificon on behalf of the club for the main door prize. Dave W6IBC and Joy KI6ASJ will provide table decorations, and non-ham door prizes with a maximum expenditure of \$150.00. There will be two door prize tickets handed out to attendees: one for licensed ham members for the ham radio prizes, and the other for general prizes for guests and non-licensed club members.

CLOSED SESSION. The Board approved the Ham of the Year selection committee choice without discussion. The 2014 SCRA Ham of the Year will be announced at the December 3rd Holiday Party.

With no further business the Board meeting adjourned at 8:05PM.

Respectfully submitted,

Dave Harrison W6IBC  
Secretary

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## Officers And Directors Needed

Annual election of Officers will be held at the November meeting and the Board of Directors has established a Nominating Committee to recruit members to serve on the Board as either an Officer or Director. Committee members are Pat, KG6JSL, Iola, KK6HRE, Darryl, KI6MSP and Charlie, KZ6T.

The offices of Vice President and one Director have been "termed out" and are ineligible to run for re-election and will definitely be vacant. Members are needed for these positions and all other positions are up for election as well.

New persons with new ideas are needed in order for the Club to continue to function and serve the membership as the outstanding Club that it is. We cannot continue to offer the programs, activities and events that we do without new participation and contribution from the membership.

Service on the Board is a very rewarding experience and give a sense of satisfaction from having in some way contributed not only to the Club and its members, but as well as to amateur radio in general. It is not particularly time consuming, only one Board meeting on the second Wednesday of each month.

If you are interested at all in serving the Club as an Officer or Director, contact me at [k6son@arrl.net](mailto:k6son@arrl.net), or any of the other members of the Committee. We are asking for your service.



PCAM Crew



## STEM.....

..... what is this?? Most of us think about the stem that apples, other fruit & veggies are connected to the tree.

This is a different type of STEM. STEM is about: Science, Technology, Engineering, & Math. Why is this important? America used to be the top country and a leader in the world. Unfortunately our country has slipped a lot. Why? The focus on Math and Science has been to separate them so that they are taught separately. Since math is needed in science, and science depends on math. They should be taught together.

This is where the STEM program comes in. Since there is science in all aspects of amateur radio, as well as math to figure out antenna length. This leads to technology and engineering.

A lot of the technology that we have today: computers, smart phones, space exploration would not be possible today.

The ARRL has put together a STEM program that meets California (and other states) Core curriculum for school students. The ARRL started this program ten years ago. One of the key elements of the STEM program is the Teachers Institute on wireless technology with the Education & Technology Program, ETP. I'm currently working with Deborah Cullen KK6HRD who teacher computer classes at Santa Rosa Middle School. Last school year I taught student how to solder, build potato batteries, RF and components, and built working crystal radios. This year Deborah KK6HRD has been to the teacher's institute. One of the projects will be learning on how to program robots.

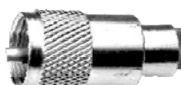
I'm also going to be at Brookhaven School in Sebastopol. I'll be working with Maker Faire teacher Aaron Shreve.

At this years Pacificon <https://sites.google.com/a/mdarc.org/pacificon-design/home/forums-events/sessions-schedule> I did a presentation on the STEM program. Check the club web site for the video of my presentation.

This will be there in the next week.

For further information, please contact me at: [ki6m-sp@arrrl.net](mailto:ki6m-sp@arrrl.net)

## More Summer Picnic Photos







# 12 STORE BUYING POWER



# HAM RADIO OUTLET

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anaheim@hamradio.com

## BURBANK, CA

1525 W. Magnolia Bl., 91506  
(818) 842-1786  
**(877) 892-1748**  
Eric, K6EJC, Mgr.  
Magnolia between  
S. Victory & Buena Vista  
burbank@hamradio.com

## OAKLAND, CA

2210 Livingston St., 94606  
(510) 534-5757  
**(877) 892-1745**  
Nick, AK6DX, Mgr.  
I-880 at 23rd Ave. ramp  
oakland@hamradio.com

## SAN DIEGO, CA

5375 Kearny Villa Rd., 92123  
(858) 560-4900  
**(877) 520-9623**  
Jerry, N5MCJ, Mgr.  
Hwy. 163 & Claremont Mesa  
sandiego@hamradio.com

## SUNNYVALE, CA

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94085  
(408) 736-9496  
**(877) 892-1749**  
Jon, K6WV, Mgr.  
So. from Hwy. 101  
sunnyvale@hamradio.com

## NEW CASTLE, DE

(Near Philadelphia)  
1509 N. Dupont Hwy., 19720  
(302) 322-7092  
**(800) 644-4476**  
Ken, N2OHD, Mgr.  
RT.13 1/4 mi., So. I-295  
delaware@hamradio.com

## PORTLAND, OR

11705 S.W. Pacific Hwy.  
97223  
(503) 598-0555  
**(800) 765-4267**  
Leon, W7AD, Mgr.  
Tigard-99W exit  
from Hwy. 5 & 217  
portland@hamradio.com

## DENVER, CO

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(303) 745-7373  
**(800) 444-9476**  
John W0IG, Mgr.  
denver@hamradio.com

## PHOENIX, AZ

10613 N. 43rd Ave., 85029  
(602) 242-3515  
**(800) 559-7388**  
Gary, N7GJ, Mgr.  
Corner of 43rd Ave. & Peoria  
phoenix@hamradio.com

## ATLANTA, GA

6071 Buford Hwy., 30340  
(770) 263-0700  
**(800) 444-7927**  
Mark, KJ4VO, Mgr.  
Doraville, 1 mi. no. of I-285  
atlanta@hamradio.com

## WOODBIDGE, VA

(Near Washington D.C.)  
14803 Build America Dr.  
22191  
(703) 643-1063  
**(800) 444-4799**  
Steve, W4SHG, Mgr.  
Exit 161, I-95, So. to US 1  
virginia@hamradio.com

## SALEM, NH

(Near Boston)  
224 N. Broadway, 03079  
(603) 898-3750  
**(800) 444-0047**  
Dave, N1EDU, Mgr.  
Exit 1, I-93;  
28 mi. No. of Boston  
salem@hamradio.com

## KENWOOD



### TS-2000 HF/VHF/UHF TCVR

- 100W HF, 6M, 2M • 50W 70CM • 10W 1.2GHz w/ opt UT-20 module • Built-in TNC, DX packet cluster
- IF Stage DSP • Backlit front key panel



### TM-281A 2 Mtr Mobile

- 65 Watt • 200 Memories • CTCSS/DCS • Mil-Std specs • Hi-quality audio



### TS-590S HF + 6M Transceiver

- 100W HF + 6M • 500 Hz & 2.7 KHz roofing filter
- Built-in auto tuner • Best dynamic range in class
- 32 bit DSP

### TH-F6A 2M/220/440

- Dual channel receive • .1 - 1300 MHz (cell blocked) RX • FM, AM, SSB • 5W 2M/220/440 TX, FM • 435 Memories
- Li-Ion Battery



### TM-V71A 2M/440 Dual Band

- High RF output (50W) • Multiple Scan • Dual receive on same band (VxV, UxU) • Echolink® memory (auto dialer) • Echolink® Sysop mode for node terminal ops

## ICOM

### IC-7000 All Mode Transceiver

- 160-10M/6M/2M/70CM
- 2x DSP • Digital IF filters
- Digital voice recorder
- 2.5" color TFT display



### ID-51A VHF/UHF Dual Band Transceiver

- 5/2.5/1.0/0.5/0.1W Output • RX: 0.52-1.71, 88-174, 380-479 MHz\*\* • AM/FM/FM-N/WFM/DV • 1304 Alphanumeric Memory Chls • Integrated GPS • D-STAR Repeater Directory • IPX7 Submersible

D-STAR ready



### IC-7600 All Mode Transceiver

- 100W HF/6M Transceiver, gen cov. receiver • Dual DSP 32 bit • Three roofing filters- 3, 6, 15kHz • 5.8 in WQVGA TFT display • Hi-res real time spectrum scope



### IC-V8000 2M Mobile Transceiver

- 75 watts • Dynamic Memory Scan (DMS) • CTCSS/DCS encode/decode w/tone scan • Weather alert • Weather channel scan • 200 alphanumeric memories

Analog + Digital  
Dual Bander  
D-STAR

### ID-880H

- D-STAR DV mode operation • DR (D-STAR repeater) mode • Free software download • GPS A mode for easy D-PRS operation • One touch reply button (DV mode) • Wideband receiver

D-STAR ready

## YAESU

The radio



### FTDX-3000 100W HF + 6M Transceiver

- 100 Watt HF/6 Meters • Large and wide color LCD display • High Speed Spectrum Scope built-in • 32 bit high speed DSP /Down Conversion 1st IF



### FT-7900R 2M/440 Mobile

- 50W 2M, 45W on 440MHz • Weather Alert • 1000+ Memories • WIRES capability • Wideband receiver (cell blocked)

### FT-60R 2M/440 5W HT

- Wide receiver coverage • AM air band receive • 1000 memory channels w/alphabet labels • Huge LCD display • Rugged die-cast, water resistant case • NOAA severe weather alert with alert scan



### FT-450D 100W HF + 6M Transceiver

- 100W HF/6M • Auto tuner built-in • DSP built-in
- 500 memories • DNR, IF Notch, IF Shift



### FT-857D Ultra Compact HF/VHF/UHF

- 100w HF/6M, 50W 2M, 20W UHF • DSP included
- 32 color display • 200 mems • Detachable front panel (YSK-857 required)

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Under 18 Membership	\$18 (\$4.50/qtr)
Badge	\$10

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 First Name \_\_\_\_\_  
 City \_\_\_\_\_

#### Payment Calculations: Make checks payable to SCRA

Dues - Full Year	\$ _____
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Badge	\$ _____
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