

THE RADIO HILL GAZETTE

A publication of the Schaumburg Ham Radio Club (SARC)

December 2016

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From the Editor

Well this seems like a good time to wish you all Happy Holidays. Interesting that I can't wish you "Merry Christmas" and still be politically correct. Hope you have a wonderful holiday full of cookies (my favorite holiday treat.) As I write this, I am preparing for spinal surgery to get me walking again. I apologize for this issue of RHG which may have some duplication and not be quite correct in detail. Please bear with me.

Please send all submissions for the Radio Hill Gazette to me at my email address of *hopken@mindspring.com*. We solicit letters, articles, news items, quizzes, advertisements, suggestions, and criticism – plus anything else you can think of, including ideas to improve the RHG! Please make submissions by the 20th of the month for inclusion in the next issue. The editor reserves the right to edit submissions due to size or formatting limitations. S.A.R.C. shares newsletters with a number of other clubs. We scrutinize their publications very closely to make sure that we do not infringe on any copyrights. As a matter of form, we try to acknowledge all prior sources. Unless otherwise clearly identified as copyright protected, all material in the RHG may be used when due credit is given to the author and to SARC. SARC is a recognized ARRL Special Services Organization. The Schaumburg Amateur Radio Club publishes the Radio Hill Gazette monthly.

Ken Hopkins, WA9WCP
Editor, RHG

From the President

Schaumburg Amateur Radio Club

SARC President's Report December 2017

Greetings SARC Members – this certainly has been an exciting month. The Cubs won the World Series ending a 108-year World Series championship drought, the U.S. Presidential Elections were held, and the ARRL posted the 2016 Field Day Results. For those of you who haven't heard, congratulations are in order as the SARC Team came in 5th in the 2A Category for the State of Illinois. But wait there is more...

Congratulations to the following who were elected for the 2017 Term, and beyond for Directors, during our recent Club Meeting on November 17:

Mel Luxenburg, W9FRT – President
Matt Walsh, AC9IG – Vice President
Cliff Sowka, K9QD - Treasurer
Chris Brewer, AC9GN - Secretary
Kent Ochs, W9KAO -Director
Dirk Smith, K9DFS – Director

Here are some additional updates for those who were unable to attend the recent Club Meeting:

Earlier we had requested that Dirk Smith, K9DFS, reserve the Medinah Park District site for the 2017 ARRL Field Day. Dirk has already contacted the Park Director and confirmed the location is ours for Field Day... Thanks, Dirk.

Cliff Sowka, K9QD, has helped secure the Construction Meeting location at the Schaumburg Tennis Club for the foreseeable future. Thanks for your extra effort, Cliff.

I have reserved the conference room at the Schaumburg Community Recreation center for SARC Club Meetings through 2017.

Kevin Willard, K9QVX, has reserved the Conference Room at the Schaumburg Area Airport for Board Meetings through 2017. Thanks, Kevin.

We currently have 81 paid members. Our ARRL Membership is current thru 2017. The ARRL Website is updated; and, our liability Insurance is current through May 1, 2017.

K9IHK Repeater is operating well. Many members have stated that the repeater has never sounded this good. Thanks to Kent and crew.

Finally, many of the SARC Members had a very enjoyable evening at the Schaumburg Lou Malnati's Restaurant on Saturday, November 5. Thanks for arranging that, Roger, W9RDR.

Wishing everyone a healthy, safe, and terrific Thanksgiving!

Steve Karson, AC9EM
President
Schaumburg Amateur Radio Club

Construction Project Resumes November 19th

Ted Lester AB9SZ has been host of SARC's Construction Project ever since Bill Smead K9IIM (SK) delegated this responsibility to someone who was both responsible and capable. Ted's leadership in continuing this activity has been a great contributor to our club and it appears this project hosting resource is a unique offering among the many Chicago-Area Ham Radio Clubs.

Bill Smead personally selected Ted to take charge of the venue, placed high confidence in Ted's electronic engineering and management experience brought to our club through many years of his professional life with Motorola, and knew SARC's Construction Project would continue to be a fun and valuable part of the club.

We recently suffered uncertainty about the meeting-room/facility accommodations provided by the Schaumburg Park District. The Construction Project meets twice a month during the fall/winter/spring months in the basement of the Tennis Club on Payne Road. While our normal Construction Project scheduling was on summer hiatus, the Park District undertook some major remodeling of their facility. Oops; we didn't know this building upset was planned, noticed our equipment storage cabinets were pushed several feet from their original location, and realized something disruptive upstairs was underway. A gentle inquiry of the facility's management concerning our future revealed their total surprise of our occupancy/use, revealed they were evicting us from their basement, and we were [only sort-of pleased] to find they were willing to provide us a classroom at the Community Recreations Center on the west side of town. Oops, not a good outcome.

Classroom? Okay in a pinch but we really loved the basement. Gentle dialog advocating the Park District allow us to stay in their basement continued for a few months.

Fortunately Village Management was aware of SARC's involvement in the Schaumburg Fire Department's Emergency Operations Group: ten SARC club members qualified in becoming Schaumburg Fire Department Radio Volunteers for Bill Clark's Emcomm organization by passing FBI background checks therefore being officially accepted as a Village resource. This surely contributed to our success in requesting that we be allowed to retain the basement venue.

In consideration for the many radio-communications-supportive services we provide the Village of Schaumburg, we found advocacy within the Fire Department management to support our request to remain in the Park District's Tennis Club basement. Park District management understood what their Fire Department plea on our behalf meant to SARC, and granted us the right to remain a tenant in their facility.

Ted is thrilled to report resumption of Construction Project in late November. We normally meet the second and fourth Saturday of the month but the remodel is not quite finished and thus delaying our first session by one week.

Therefore, for November only, we'll meet two Saturdays consecutively: November 19th and November 26th.

December will return us to a normal schedule for the remaining sessions ending in late April 2017.

Ted's Construction Project leadership combined with our member's good housekeeping and respectful use of the Tennis Club's basement facility over the years have earned us the right to retain our coveted venue. See you in November.

Cliff Sowka K9QD

Reminder for those who participate in EMCOMM and Construction Project (CP)

Ted AB9SZ has announced our coveted Schaumburg Park District's Tennis Club basement location has been restored for our continued use BUT our normal 2nd/4th Saturday schedule will be interrupted [only] for the month of November.

Resumption of his regular CP schedule will return for December.

For November Only

Date	Schedule
Nov 19	First meeting for the month
Nov 26	Second meeting for the month

Beginning December forward, CP's normal 2nd and 4th Saturday schedule will be back in synch with our published calendar [www.N9RJV.org].

EMCOMM Special Note

The Park District has requested we do not meet on November 12th to allow their crew's remodel cleanup efforts to complete. Instead, they have asked that we schedule our first fall meeting this coming Saturday Nov 19th.

➔ This will directly interfere with our EMCOMM meeting that continues on normal scheduling plan Nov 19th at the Hoffman Estates Police Station.

For EMCOMM Participants, this means a temporary CP scheduling conflict exists, but be sure to remember EMCOMM at the Hoffman Estates Police Station remains on regular schedule Saturday November 19th.

Regards,

Cliff Sowka

Cell 847 721 3638

VE Test Session Results

> NEXT EXAM: Dec. 3rd at Schaumburg Park District CRC; .

>

> Results for Nov..5th. 2016, test session:

>

	NUMBER	NEW LICENSE
> CLASS	TESTED	or UPGRADE

> -----

> Technician	3	3
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>

> General	4	4
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> Extra	2	1
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> -----

> Total:	9	8
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> NEW LICENSES:

> ****TECHNICIAN****

>

> Kenneth E Krzywicki	KD(HIJ
-----------------------	--------

> Virginia J Kafka	KD9HIL
--------------------	--------

> Robert A Piemonte	KD9HIN
---------------------	--------

>

> ****GENERAL****

>

> James R Richardson	KD9HII
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> Dennis C Calvey	KD9HIK
-------------------	--------

> Garrett B Neuenkirchen	KD9HIM
--------------------------	--------

> Michael S Schnell	KA9CLD
---------------------	--------

> ****EXTRA****

>

> Shravan Jumani	KD8YWP
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>

> Thanks to Tom Doyle <k9mf43@gmail.com>

Miscellaneous

There is one copy of the 2016 ARRL Handbook at the Schaumburg Library. DDS # 621.384 in the Ham Radio section. It also has the C D Rom inside the back cover.

>**FYI:**-----

DATE Saturday Dec 11

TIME 7AM to 11AM (many sellers arrive by 6:30AM)

PLACE American Legion 570 S Gary Ave Carol Stream, IL 60188

COST Free Admission

If you want an Indoor swap table, cost is \$10 and you must be an ARCI member to purchase a spot.

Regards,

Cliff Sowka

Cell 847 721 3638

SARC General Business Meeting 11/17

Steve Karson AC9EN, President, called the meeting to order at 7:02 PM.

Attendees:

Chris Brewer	AC9GN	Charles Frageau	N5HSR	Bob Langsfeld	WB9TZC
Rob Glowacki	N9MVO	Jim Campbell	KB9RGU	Mel Luxenberg	W9FRT
Don Smith	K9UD	Bob Zuttmeister	W9GEW	Dennis C. Calvay	KD9HIK
Danny Kafka	KD9HIL	Rick Cook	KC9PBH	Dirk Smith	K9DFS
David Hug	KD9CVI	Jim Scott	W9KV	Brad Mayer	KC9WZH
Mike Sorensen	K9KQX	Burt Shultz	AB9CV	James Richardson	KD9HII
Kent Ochs	W9KAO	Steve Karsen	AC9EM	Jon Mucker	N8XVE
Matt Walsh	AC9IG	DJ Traxler	WA9VBR	Frank Giampa	N9QPD
Wake Wacaser	AF9I	Joel Gray	N9LQ	Anthony Willard	AB9YL
Cliff Sowka	K9QD	Roger Ryan	W9RDR	Kevin Willard	KB9QVX
Bob Benwitz	N9JAX	Al Salazar	K9DFA	Leo Ribordy	N9NBH
Gary Bernstein	N9VU	Ken Krzywicki	KD9HIJ	John Schofield	AC9JS
Brad Mayer	KC9WZH				

Treasurer's report: Chris Brewer AC9GN reports: Beginning balance for the month was \$4,495.37. Expense was \$200.00 consisting of \$50 data-line and \$150.00 purchase of 70cM Duplexer for the Fusion machine. Ending Balance of \$4,295.37. PAID Membership is currently 81. Motion to approve; so moved.

President's Report: Steve AC9EM We currently have 81 paid members. Our ARRL Membership is current thru 2017. Our ARRL Web Site is updated. Our liability Insurance is current through May 1, 2017. K9IHK Repeater is operating well. Many members have stated that the repeater has never sounded this good. I have this conference room reserved at the CRC for SARC Club Meetings through 2017.

Kevin Willard K9QVX reserved the Conference Room at the Schaumburg Area Airport for Board Meetings through 2017. As noted by Cliff Sowka K9QD we have secured the Construction Meeting location at the Schaumburg Tennis Club for the foreseeable future. Thanks for your extra effort Cliff.

We have requested that Dirk Smith K9DFS reserve the Medinah Park District site for the 2017 ARRL Field Day. Dirk has already contacted the Park Director. The Board plans to distribute a printed SARC Member Directory to paid members tonight. The Directory includes name, call sign, email address, phone, and address. Note: The directory will not be emailed or provided digitally and is only available in the printed form.

SARC Repeater: Kent W9KAO reports machine working perfectly.

Fusion @ Hospital site previously suffered an interferer that caused the Time-Out-Timer to constantly restart. Machine was relocated back to the Hoffman Estates Police Station in the EMCOMM studio until a site survey could be performed.

Hospital site survey by Rob N9MVO and Leo N9NBH found two possible open frequencies on the coordination list and additionally determined no interferers on the original channel selected.

Next step is to tune our new Duplexer and try the Hospital site once more with a much stronger input filter.

Public Service Rob N9MVO reports events for 2016 are completed. Support for the MS The next events will begin in April 2017

Secretary's Report: Cliff Sowka K9QD Meeting Minutes approved as published in RHG.

RHG: Ken Hopkins No Report

Construction Project: Ted Lester AB9SZ: Remodel is complete and our basement space at the Tennis Club is open for us once again. Park District has found four tables for us and there are also twenty chairs in front of the cabinets.

Our first meeting of this season will be this coming Saturday November 19th. Immediate task will be to open the cabinets, re-order anything that may have fallen out of place, take inventory for the club's records, and bring the storage area back to normalcy. The coax to our 2M roof antenna may still be hanging loose on the outside south wall. We may want to place a small weatherproof access box on the outside wall and terminate the coax for future needs. This way an extension cable may be able to run down the emergency exit to the basement stairway as needed.

An important learning experience for our club: This longtime basement facility is being returned to our cost-free use only because SARC has been a supportive radio service to the Village of Schaumburg. Our communication support for the Village's events over the many years past was critical in justifying our request to remain an occupant in their Tennis Club facility.

Good job. A hearty Thank You to all our club members who have supported SARC's participation in EMCOMM, Public Service, Charity Events, and various Community parades over the years. Your support for the Village has won the restoration of our Construction Project facility.

VE Testing: Steve Karson AC9EM.

Social: Roger Ryan W9RDR Next event Social planning will be for January Christmas Party.

Nets: Leo reports Tuesday night is the TechNet and Thursday Night Net is active and would like to see volunteer wishing to handle future nets to come forward.

Education: Ham Radio Class: Leo N9NBH reports a replacement for Jarek in establishing another Tech Class for the winter months is needed.

EMCOMM: Bob Langsfeld WB9TZC. Thanked the team for attending our Shakeout exercise. Didn't go as planned but the good news is our weaknesses are well on display and additional training efforts can be designed as needed.

Programs: Cliff Sowka K9QD: PhotonicInduction video presented during the vote count... Need presentation for the December meeting.

Ebay Sales: Gary N9VU Nothing for sale at the moment but expect to find items stored in the Construction Project cabinets that may be worthy of future sale.

Publicity No Report.

Recurring Calendar: Chris is checking PO Box weekly.

Old business: None.

New business: Elections for 2017. All seven Absentee Ballots were received, all members in good standing and present tonight placed their vote and presented for count.

Ballot results: Mel Luxenberg President, Matt Walsh Vice President, Chris Brewer Treasurer, Cliff Sowka Secretary, Dirk Smith Director, and Kent Ochs Director.

Move to adjourn 8:04PM. So moved.

SPECIAL MEETING Called 8:05PM to Consider Code of Conduct addition to SARC's ByLaws.

Code of Conduct: Kevin explained the following text will be added to the club's ByLaws upon member approval.

CODE OF CONDUCT

All SARC members shall during all club functions using all club communication methods including electronic and digital forms such as repeaters and email reflectors will be:

CONSIDERATE...He/[She] never knowingly operates in such a way as to lessen the pleasure of others.

LOYAL...He/[She] offers loyalty, encouragement and support to other amateurs, local clubs, the IARU Radio Society in his/[her] country, through which Amateur Radio in his/[her] country is represented nationally and internationally.

PROGRESSIVE...He/[She] keeps his/[her] station up to date. It is well-built and efficient. His/[Her] operating practice is above reproach.

FRIENDLY...He/[She] operates slowly and patiently when requested; offers friendly advice and counsel to beginners; kind assistance, cooperation and consideration for the interests of others. These are the marks of the amateur spirit.

BALANCED...Radio is a hobby, never interfering with duties owed to family, job, school or community.

PATRIOTIC...His/[Her] station and skills are always ready for service to country and community.

Motion to Approve, Seconded with 33 For and 2 Against.. So Moved.

Meeting Adjourned 8:12PM

Submitted: November 18, 2016 Cliff Sowka Secretary

Regards,

Cliff Sowka

Cell 847 721 3638

A Call for Programs

Some Potential Topics: RF Transmission Fundamentals. ARRL Awards. ARRL Contests. Semiconductor Developments. Operating Tips. QSL Card Process. Managing Pileups. Public Service Emergency Communications. Village of Schaumburg Volunteers. Field Day Planning. Basic Electronics. Inductive / Capacitive Reactance Biasing. Transistors. uController Projects. SDR / Dongle Radio Tricks. Grid Locators. Frequency Charts. Antenna Basics / Installation Advanced Antenna Tricks. Measuring Antenna Impedance. Lightning Protection. Shack Electrical Facilities. Solar Cycle Considerations.

Ideas for presentations are endless. Our membership has talented and experienced people who are asked to contribute to interesting business meetings by bringing some of their knowledge forward for all to benefit. Please let me know if you wish to present a topic and I will include your ideas into the schedule. Then our diverse membership will provide enthusiastic participation for a rewarding outcome.

Cliff Sowka K9QD Program Chair

Schaumburg Amateur Radio Club Board of Directors November 2, 2016

Kevin Willard KB9QVX Chairman called the meeting to order at 7:05 PM.

Attendees

Kevin Willard	KB9QVX
Steve Karson	AC9EM
Ted Lester	AB9SZ
Kent Ochs	W9KAO
Frank Giampa	N9QPD
Leo Ribordy	N9NBH
David Hug	KD9CVI
Cliff Sowka	K9QD
Roger Ryan	W9RDR
Gary Bernstein	N9VU
Rob Glowacki	N9MVO

Treasurer's report: Chris Brewer AC9GN provided in-absentia report:

Beginning balance for the month was \$4,495.37 with no income during the past several weeks. Expense was \$200.00 consisting of \$50 data-line and \$150 Duplexer for the Fusion repeater. Ending Balance of \$4,295.37.

PAID Membership is currently 76. Steve AC9EM moved and Rob N9MVO seconded. So moved.

President's Report: Steve AC9EM reports we currently have 76 paid members, elections will be held November 17, 2016, an updated club Roster will be published in paper form (not electronic), and provided to only paid members during the meeting in November. Our ARRL Club Membership status is current. Our liability Insurance is paid through May 2017.

SARC Repeater: Kent W9KAO reports the machine is working flawlessly.

Code of Conduct: Frank N9QPD and Kevin KB9QVX are prepared to present the Code of Conduct under new business. Proposed changes to the club's By Laws were published in October's RHG as planned.

BOD action tonight in changing *Article III Membership* clause is required before the membership will be able to consider the actual *Code of Conduct* text changes during our November 17th Business Meeting. So moved.

Public Service Rob N9MV reports events for 2016 are completed.

Secretary's Report: Cliff Sowka K9QD Meeting Minutes approved as published in RHG.

RHG: Ken Hopkins WA9WCP No Report.

Construction Project: Ted Lester AB9SZ: We're back and will follow the Park District's instructions to meet for our initial return to their basement facility on November 19th. Park District will prepare a zero-rent agreement for us to execute in order to provide for an official relationship; we're in need of a club Officer to be present in order to execute their document. It appears our 2M antenna may still be on the roof because the original coax is hanging down along the south wall near the abandoned escape window. Repair to the line could be possible if we place a new BNC male connector and weatherproof somehow.

First meeting of the season will require cabinet placement and content re-order; will also be a good time to take inventory of the more valuable club assets so that our Treasurer can keep record.

VE Testing: Steve Karson AC9EM. Oct 18th 10 people attended Volunteer Examiner test with 9 Tech passing, one General failing.

Social: Roger Ryan W9RDR Next event November 5th at 6:30 will be the replacement for the Pilot Pete's venue and now planned to be held at Lou Malnatis on Schaumburg Road.

Club Elections: Kevin KB9QVX will place the seven Absentee Ballot requests in the US Mail so that November 3rd postmark will be properly executed.

Nets: Rob N9MVO Nets continue but would like to see higher attendance and more volunteer operators.

Education: Ham Radio Class: Leo N9NBH reports Jarek's Technician Class has concluded, several students are expected to test with SARC VEs this coming Saturday. Jarek will be unable to host future Ham License Classes so Leo N9NBH said he will check to see if Matt AC9IG would be willing to take over the Education Committee.

EMCOMM: Bob Langsfeld WB9TZC not present: Hoffman Estates Meeting November 19th will be a Cold Wash of the Shakeout exercise. We hope the unscheduled Construction Project resumption on this same date won't detract from EMCOMM audience attendance.

Programs: Cliff Sowka K9QD: The November Business Meeting will have a short video of Electrical Atrocities presented during the vote count. Need presentation for the December meeting.

Ebay Sales: Gary N9VU reports there are no sales currently listed but our resumption of Construction Project on November 19th will likely yield some items that should be considered as available for listing.

Publicity No Report.

Recurring Calendar: Chris AC9GN is checking PO Box weekly. Need to update our FCC registration to move club's current listing of Al Silver to Rob N9MVO as Trustee .

Old business: None.

New business: Frank N9QPD questioned whether Ted AB9SZ will continue with his Director duties. Ted confirmed he will remain in his Director role for the duration of his term.

Frank N9QPD reminded BOD our October Business Meeting tabled discussion regarding utilization of Medinah Park District for our 2017 Field Day and potential of their associated deposit requirement. Kent W9KAO reports that Dirk K9DFS informs he will interface with the Park District to request they waive any fees; we should hopefully know outcome shortly.

SARC By-Laws Update: Frank N9QPD moved the Board approve an initiation to change the text in Article III [as published in the October RHG] to add: *abide by the Code of Conduct*. Rob N9MVO seconded. So Moved.

Next step will be presenting the actual *Code of Conduct* text [as published in the October RHG] to the general membership during a special session. Upon membership approval, our By-Laws will now reflect this behavior standard.

After adjournment of our Regular Business Meeting November 17th a special session will be called, published *Code of Conduct* text additions will be discussed, membership vote will be recorded, and our By-Laws updated as appropriate.

Move to adjourn 8:18PM. So moved.

Submitted: November 3, 2016 Cliff Sowka Secretary

Club Officers 2016

President:	Steve Karson AC9EM
Vice Pres.	Russ Schmidt KC9NUV
Secretary:	Cliff Sowka K9QD
Treasurer:	Chris Brewer AC9GN
Director:	Frank Giampa N9QPD
Director:	Rob Glowacki N9MVO (2016)
Director:	Kevin Willard KB9QVX (2017)
Director:	Ted Lester AB9SZ (2017)
Director:	Gary Bernstein N9VU (2018)

Club Committees

Programs	Cliff Sowka, K9QD
Social Activities	Roger Ryan, W9RDR
Membership	Leo Ribordy, N9NBH
Education	Bruce Warrington, N9EHA
Public Service	Rob Glowacki, N9MVO
Emergency Comm	Bob Langsfeld, WB9TZC
Special Events/Field Day	Leo N9NBH, Matt AC9IG
EBAY Sales	Gary, N9VU
Publicity	Dirk Smith K9DFS
RHG	Ken Hopkins WA9WCP
Net	Jim Brink, W9JFB
Technical Assistance	Ted Lester, AB9SZ
Fund Raising	Open
Fox Hunt Coordinator	Steve Karson,
Repeater	Rob Glowacki, N9MVO

SARC-All Email Reflector

SARC-All Email Reflector - **SARC Members, want to know what's happening in your club?** Join the club's email reflector on Google groups. Point your web browser to: <http://groups.google.com/group/sarc-all>, The Radio Hill Gazette, newsletter of the Schaumburg Amateur Radio club

Club Nets.

Technical information net - Every Tuesday night at 7:30 pm. on the SARC Repeater 145.23 MHz.-600 kHz WITH 107.2 Hz PL. Bring your Q&A's. Thursday nights are the 2 meter general information net on the SARC Repeater 145.23 MHz.- 600 kHz with 107.2 Hz PL. at 8:00 PM (except meeting nights.)

Club Meetings

Club meetings are held at the Schaumburg Recreation Center (CRC) on the southeast corner of Springinsguth and Bode roads. Meetings are held at 7:00 P.M. Come in the Bode Road entrance and take the elevator to the 2nd floor.



Schaumburg Radio Club Nets

Schaumburg Amateur Radio Club Thursday Night 8:00 Net except for the third Thursday of the month when club meetings are held.

S.A.R.C. K9IHK Repeater 145.230 MHz- 600 kHz PL=107.2 , 442.275 +5 MHz PL =114.8 The 70cm repeater is cross linked to the 2 meter repeater. The N9RJV Yaesu Fusion repeater at 444.250 + 5 MHz PL=114.8 is NOT linked to any other repeater.

Don't forget to check into the net! It will only take a minute and will let other club members know how you sound on the club repeater. The net features current club news, weekly NEWSLINE, news from other clubs and (of course) the swap and-shop. Encourage your friends who are not yet members to check in with as well. Keep in mind that this is an open net and we encourage everyone to check in. See you Thursday at 8p.m. The Schaumburg Amateur Radio Club, Inc. is organized as a general not-for-profit corporation in the State of Illinois to render public service whenever applicable to the needs of the community and further various pursuits of amateur radio as a hobby. Meetings are generally held on the third Thursday of each month. Visitors are always welcome. Opinions expressed herein are those of the contributors and not necessarily those of the Schaumburg Amateur Radio Club. All contents of the Radio Hill Gazette, except where noted, are ©2015 of the Schaumburg Amateur Radio Club Inc. Articles and other material may only be copied when proper credit is given to both the author and to SARC. Visit the SARC Home Page at <http://n9rjv.org>

