

THE RADIO HILL GAZETTE

A publication of the Schaumburg Ham Radio Club (SARC)

January 2017

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From the Editor

Portable Document Format (.pdf) is a very convenient format that allows exchange of written text from one format to another. Unfortunately, it has proven to be a complete mystery for me. There are commercially available programs that will convert .pdf files to Microsoft Outlook (my desired format) but these programs are expensive. A few of you have tried to teach me how to convert from .pdf to Outlook but I have failed. So, here is the bottom line. Please do not send me any .pdf files for inclusion in the RHG. If you can convert them to Microsoft format before sending them to me that would be great but otherwise I will not be able to include them in RHG. Thank you for your understanding.

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 (hopken@mindspring.com)

From the President

Welcome to our new president, Mel
Luxenburg!

Farm Radio Power Supply

Introduction

Prior to the 1950s, many rural areas in the US had no electricity. Many companies sold battery operated vacuum tube radios for use in these areas, the radios are commonly called Farm Radios. Farm radios are often available at very reasonable prices and can make a good restoration project.

Farm radios typically used a large 1.5V battery for the tube filaments and a 90V battery for the plate (B+) supply. These batteries are hard to find, expensive and have a limited life. This project involves constructing a power supply that allows this type of radio to be operated from a modern 120VAC power line. The radio used for this project was made under the brand name Western Air Patrol by RCA/Hazeltine, it uses four 1.5V tubes. This project should be adaptable to other farm radio models by changing one resistor in the B+ circuit.

Theory

The heart of the power supply is a Tamura 3FD-410 5V dual primary/dual secondary transformer. These are available from DigiKey.com for reasonable prices. Normally, the transformer's primary windings would be connected in series for 240VAC operation or in parallel for 120VAC operation. This circuit takes one of the primaries and repurposes it as a 120VAC secondary. For this to work, the transformer should be somewhat over-rated, which it is in this case.

The two 5V secondary windings are combined in parallel and sent to a bridge rectifier and filter capacitor to produce around 7VDC. This DC voltage is current-limited by a 150 ohm resistor and used to drive two amber LEDs. The LEDs can be hot-glued to the inside of the radio above the dial to provide dial lighting and power-on indication.

The 7VDC is also sent to an LM317 adjustable voltage regulator IC. The LM317 normally produces a minimum voltage of 1.7V, which is too high for this application. A series 1N4002 diode is used to drop about .5V to produce a minimum voltage of 1.2V. The regulator is adjusted so that the filaments operate at 1.5VDC.

The 90VDC B+ supply uses a bridge rectifier across the transformer's second primary winding to produce around 160VDC. The rectified DC is filtered through a pair of electrolytic capacitors and a series resistor. The resistor drops the B+ voltage to the required 90V.

Construction

The power transformer and associated parts were mounted on a piece of perforated breadboard material, connections were soldered on the bottom of the board using point-to-point wiring. The LM317 regulator should be mounted on a small heat sink using heat sink grease. All external connections were brought out to small wire loops on top of the breadboard, the radio wiring can be soldered to these loops.

The power supply board was mounted to a standard 4"x4" electrical utility box cover using two 6-32 screws and 1/4" spacers. The switch and fuse were mounted in a separate 2"x4" electrical utility box, a

standard light switch was used. The two boxes were joined together by knocking out two adjacent knockouts on each box and connected with standard electrical box connectors. The power supply and switch assemblies were connected to the inside of the radio using a pair of wood screws.

It may be possible to repurpose the radio's power switch for controlling the AC supply. In this radio, the switch on the volume control had two circuits, one for the 1.5V battery and one for the 90V battery. The two DC circuits should be unsoldered from the switch, connected on as the switch would, and insulated to prevent shorts. The two switches can then be paralleled and brought out with two wires to the power supply box. Unfortunately, the original volume control pot in this radio was bad, so I used a substitute pot that had no switch and built the power switch as shown in the photos.

Alignment

The filament voltage regulator should be set to the minimum value and then connected to the radio's filament circuit. The regulator should be adjusted up until the filament voltage reads 1.5VDC. The filaments in this radio's tubes produce a very faint glow compared to most tubes, you may only be able to see them in the dark.

The B+ supply voltage is adjustable by changing the value of the 4.7K 1W resistor. If the B+ is too high, use a resistor with a higher value, if it is too low, use a resistor with a smaller value.

Now is a good time to align the radio. The trimmers on the variable capacitor should be adjusted to set the dial frequency and antenna resonance, then the IF transformer adjustments should be tweaked for the loudest signal. For the best IF adjustment, move one adjustment clockwise a tiny amount and the other counter-clockwise a tiny amount. This produces a wider IF bandwidth.

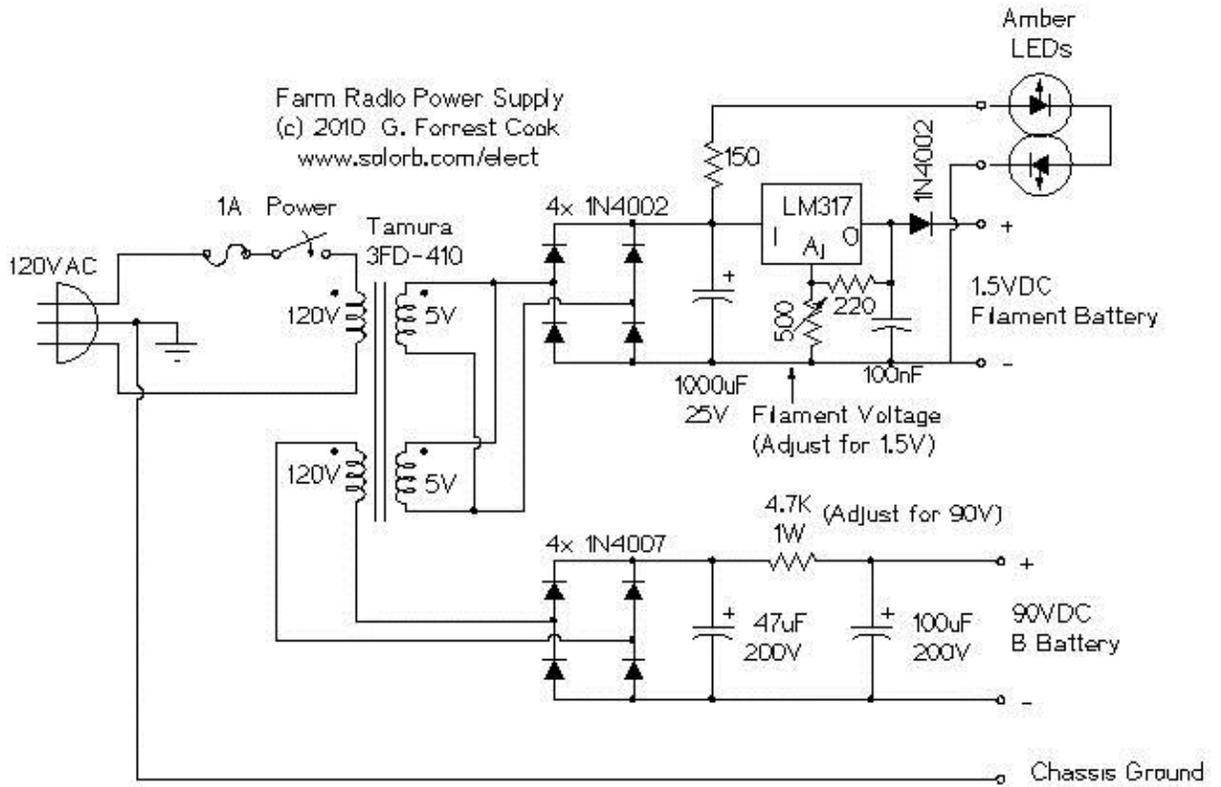
Use

Turn on the power, tune in a station and enjoy. The radio shown uses a mere 2W of AC power to operate and it produces plenty of volume. An interesting feature of radios that use these low voltage tubes is that, unlike most tube devices, they turn on almost immediately. This is because the tubes use their filaments as direct cathodes, producing a very fast cathode warm-up time.

Comments from Rob N9MVO:

Should be an easy build. His wiring of the transformer might limit the power available... The two 120 V windings are supposed to be wired in series (240 V) or parallel (120V) for normal operation. Using only one winding won't let full power be used. (He says this.) Instead, use a low-power tube transformer. 120 V primary, 125 V - 15 to 25 mA secondary and 6.3 V .6 A secondary. See a typical VTVM. Use the filament winding for the 1.5 V regulator for filaments, and the 125 V secondary for the 90 V 'B' supply. If you can find one with a center tapped filament winding, use it with the tap, and two diodes. That will leave about 4.5 V going into the filament regulator. The LM317 will run cooler, too.

I have some battery portables, and don't want to have to put 9 V batteries into a string for the plate supply.



Antique Radio Collecting As A Hobby



I've enjoyed radio hobbies since I was a kid but one of them that managed to infiltrate my free time has been collecting antique radios, those from the late 1920's through the 50's. It's become a learning experience as well as I've learned basic radio functions like how a receiver actually works, and the basics of power supply functions. My home now has a collection of radios both large and small. When guests visit they often ask "this must be an expensive hobby." I tell them "not necessarily" as the majority of my radios on display have been purchased either partially working to not working at all. My biggest joy is to bring something like an old 1930's set back to life after many years of being dormant. To challenge my enjoyment of collecting I only purchase those either partially or non-functioning. It all makes for one enjoyable hobby outside of Ham Radio and the others I have. Fully working sets can be found as well, but that's another story.

Where do you find old radios? For the most part you find them at flea markets, especially during the spring and summer months. I find that living in the Chicago area I am at an advantage for finding old sets as many are salvaged from estate sales from original owners and/or their siblings who've kept these radios as a memoir of their family. Others may find sitting idle in basements or attics for years and are discovered by new occupants of a home, sometimes renovation crews find and attempt to resell them. In some cases I've found people will give them away to someone who will appreciate and restore them. Other ways to find radios, Craig's List locally or Ebay. If you become a collector and make yourself known people will find you sometimes and give you sets.....sometimes. Just stay on the lookout in these areas AND attend the bi-monthly open swap meets put on by The Antique Radio Club of Illinois (ARCI). This is a GREAT place to buy your first set, maybe your second, or your 20th. ☺ Check out their web page for more information. <http://www.antique-radios.org/> Antique stores have old radios, too but be prepared to spend inflated prices.

Two ways to buy sets. You will find once you get into the hobby there are those that are "barn fresh" meaning they haven't been touched or restored, my personal favorite. Generally speaking these will require you replace all those old paper and wax capacitors that you should assume are bad. Checking resistors for their value isn't a bad idea either. This will insure the radio will not only operate well but SAFELY as well. Don't forget, you're dealing with old electronics that over time suffer component failure and can be hazardous to your home, and your life if you're not careful. Tubes? A good tube checker is a good thing to have, or know someone who has one. Incidentally, tubes are not always the cause of a non working radio. Sometimes they are, sometimes they are not. Also tubes can still be found and depending on the tube are not horribly expensive. They can be found on Ebay or at the ARCI flea markets who have vendors selling them. But how can you find tubes if they don't make them anymore? They can still be found. There's a surplus of many tubes still available from older junk units that were salvaged plus they literally made more tubes than were every used. Some are still NOS (New Old Stock) as well. Again don't take for granted it's a tube issue in a failing radio.

I've known many people to replace all tubes in a set first thing then discover that's not the issue. That's money wasted.

If you're good with wood working that could be to your advantage as well. Some of these wooden sets are still in relatively good shape where a good application of store bought wood treatment will bring the cabinet back to it's original beauty. Others, not so and will require some work to make it a great conversation piece in your home or office. Plastic sets are a bit more difficult to restore especially if

They are cracked or broken. Unfortunately I myself am not a cabinet restorer and could only write and advise you on electronic restoration. The internet is a wonderful thing for research on that.

So after you get that first radio of yours working or not you'll be amazed at the sound some of these have and their performance even on AM Radio. It's been said that AM Radio never lost its fidelity, it's just that manufacturers simply over time skimped on good receiver design due to AM becoming less popular than FM. "But all there is on AM is news and talk shows" you say. True, however there are ways around that. There are a number of kits available that will enable you to build your own low power AM transmitter to rebroadcast your own music or even old time radio shows. There's nothing like hearing a Glen Miller versus Glen Beck on your set. And who needs Rush Limbaugh when you can hear Jack Benny. So don't touch that dial, there's more to be heard.

If you've any questions about collecting antique radios or if you own one and have wanted to make it work for years but didn't know how, there's help. Visit our SARC construction project every 2nd and 4th Saturday of the month at the Schaumburg Tennis Plus in Schaumburg from 8am till noon. Of course the Internet and Google are our friends. Here's some helpful links for getting started:

<http://antiqueradio.org/recap.htm> (great for beginners and pros alike)

<http://antiqueradio.org/index.html>

Plus check this link for more places to get help:

<http://www.antique-radios.org/>

ARCI has a list of resources for parts and supplies.

And of course you're welcome to ask me at any of our club meetings as well as my EMAIL address:

N9VU@HOTMAIL.COM

Hit me up if you're unsure about the value of a current radio you have OR one you are interested in purchasing.

Thanks for reading, and happy listening,

Gary Bernstein/N9VU,

Schaumburg, Ill.

VE Test Session Results



N9JAX upgrades to Extra Class

Bob N9JAX - Congratulations on your excellent accomplishment. You are a valued member of the Club. Now go out and make some rare DX contacts... hi hi

Steve, AC9EM

> NEXT EXAM: Jan 7th at Schaumburg Park District CRC; .

>

> Results for Dec 3rd. 2016, test session:

>

> CLASS	NUMBER TESTED	NEW LICENSE or UPGRADE
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> -----

> Technician	2	2
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>

> General	3	2
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> Extra	2	2
---------	---	---

> -----

>

Total: 7 6

> NEW LICENSES:

> ****TECHNICIAN****

>

> Charles R Wiese KD9HNJ

> Rowan Skyba KD9HNK

>

>

> ****GENERAL****

>

> Mark L Barba KD9HNI

> Dorin L Magda K9MCK

>

>

> ****EXTRA****

>

> Robert W Benwitz N9JAX

> James R Richardson AC9PH

>

Courtesy of Tom Doyle <k9mf43@gmail.com>

Miscellaneous

Christmas Party

Our January meeting will be held at Buona Beef in Hoffman Estates rather than its usual location. This will be our annual Christmas party. The date is January 19th. Festivities will start at 6:30. Buona Beef is located at 2352 W. Higgins, in the Barrington Square Plaza just $\frac{3}{4}$ mile East of Barrington. More details to follow.

FUSION REPEATER LIVES AGAIN

The SARC Fusion Repeater is up and running at our test facility at the HEPD on our new test frequency 443.950 + offset with PL tone of 114.8 running medium power at approximately 25w. We recently upgraded the firmware on the system in hopes of eliminating drop outs of inbound signals and lock outs. We plan on testing the repeater prior to installing at our permanent location on top one of the buildings at St. Alexis Hospital off Barrington Road. I've done some testing this evening with a continuous carrier (with ID) until the repeater times out. No issues have been found.

If you get a chance give the repeater a "work out" if you can access it from you area with the above frequency information. Please note as of now there is little or no squelch tail/delay on the system MAYBE due to our firmware upgrade and it may have changed the original settings. It may or may not be adjusted in the meantime.

Thanks and 73 de,

Gary/N9VU

SARC General Business Meeting 12/15

Schaumburg Amateur Radio Club Regular Business Meeting Dec 15, 2016

Steve Karson AC9EM, President called the meeting to order at 7:00 PM.

Attendees

Chris Brewer	AC9GN
D.J. Traxler	WA9UBR
Brad Mayer	KC9WZH
Dennis C. Calvay	KD9HIK
Burt Shultz	AB9CV
Jim Campbell	KB9RGU
Bob Benwitz	N9JAX (now EXTRA)
Mel Luxenberg	W9FRT
Leo Ribordy	N9NBH
Gary Bernstein	N9VU
Cliff Sowka	K9QD
Roger Ryan	W9RDR
David Hug	KD9CDI
Steve Karson	AC9EM
Rob Glowacki	N9MVO
Bob Langsfeld	WB9TZC

Treasurer's report: Chris Brewer AC9GN: Beginning balance for the month was \$4,295.37 with income of \$108.75 from Dues. Expense was \$50 for ongoing data line expense. Ending Balance of \$4,354.12. Membership is 82.

SARC Repeaters: Bob WB9TZC reports Fusion Machine firmware updated and working well at the Hoffman Estates Police Department EOC at the moment. 70 CM Duplexer tuned during last week's Construction Project is installed and working. Now we observe the firmware update has affected the squelch hang-time to near obscurity. We can't extend the squelch tail according to the Yaseu website so operators accustomed to the legacy tail will have to become acclimated to the new response (or lack of it).

Rob N9MV0 reports K9IHK machine is back on the air and working well. Russ schlepped the amp to Crescend, paid the \$667 repair expense from SARC funds, and was able to keep within the \$800 budget approved by the BOD in early December. Russ retrieved the amp, called Rob N9MV0 to affect the reinstall, and now K9IHK's 2M linear has been placed back in service at the Schaumburg water tank. Rob N9MV0 measured more power input than the 100W slug can handle with the *K9IIM Memorial* wattmeter. The repaired amplifier's maker, Crescend, implied the amplifier's failure may have been caused by high VSWR. Rob N9MV0 reported the club observed no specific weather event at the time of the recent catastrophic failure, and he already knows the measured reflection has historically been very low (2~3W reflected), so he's not able to correlate any obvious failure causation mechanisms other than the machine was continuously exposed to ambient temperature/humidity while in the secured ladder-well of the transmit site's water tank. Due to the nature of the open venting in the bottom of the structure at grade, the equipment was elevated a few feet above grade but still hot in the summer and cold in the winter for four years. Surely the environment may have had something to do with the recent failure but neither the NSA nor the CIA can provide any proof. The new home of the repeater is inside the pump house of the Schaumburg Road water tower and no longer subject to outdoor temperature extremes.

Public Service: Rob Glowacki N9MV0. We can plan for April and July events in the coming year. MS Walk in April and the July 4th parades will be on the calendar.

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

President's Report: Steve Karson, AC9EM. This will be my last President's Report in 2016 as my term is coming to an end on December 31, 2016. It has certainly been an honor and a pleasure to have served as President of the Schaumburg Amateur Radio Club in 2016. It has been great getting to know all the members and working with the officers and board.

1. We currently have 82 paid members.
2. 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 Secretary
 - Chris Brewer, AC9GN Treasurer
 - Kent Ochs, W9KAO Director
 - Dirk Smith, K9DFS Director
3. 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... Dirk has paid the deposit \$100. Thanks Dirk.
4. The ARRL Website is updated; and, our liability Insurance is current through May 1, 2017.
5. Our ARRL Membership is current thru 2017 and ARRL Web Site is updated.
6. K9IHK Repeater is again operating well. Many members have stated that the repeater has never sounded this good.
7. I have this conference room reserved at the CRC for SARC Club Meetings through 2017.
8. 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.

Wishing everyone a healthy, safe, and terrific Christmas, New Year, and Holiday Season!

RHG: Ken Hopkins WA9WCP not present. Ken needs articles for the RHG.

Construction Project: Ted Lester AB9SZ Not Present but provided this report, and read before the club by Steve AC9EM:

Duties of Construction Project Host

In order to ensure a neat, productive, and secure environment for our Construction Project we have a designated coordinator -- a Host -- to manage the activity. I've had that duty for a few years, recently had to pass it on to others due to a serious health problem in the family.

The host prepares by purchasing supplies – snack items, coffee, coffee creamer, sugar, cups, paper towels, etc. Sometimes a member will bring snacks to the meeting, but to be sure there will always be something to go with the coffee, the host purchases and brings snacks. All supplies are purchased out-of-pocket, not from Club funds.

The host arrives a half hour before the meeting, unlocks the cabinets, makes a pot of coffee, sets up tables and chairs, and deploys electrical power to the work tables. Often, it is necessary to brew a second pot of coffee to satisfy members' thirst.

Having been the first to arrive the Host is the last to leave, as all deployed equipment must be returned to the cabinets and locked up, and the area left in clean condition. Club members help with this, but it is the host's responsibility to get it done.

We have used a collection can for voluntary contributions to defer the cost of supplies. Lately the collections have fallen short of expenses, leaving the Host stuck for the shortfall. Note there are a couple of members who generously contribute more than a fair amount, but the shortfall happens regardless.

I suggest the Club discuss possible solutions for this. Ted AB9SZ.

After some consideration, Gary Bernstein, N9VU agreed to take on the responsibility for managing the Construction Project Meetings.

VE Testing: Though not present, Tom Doyle reports six students tested during VE Session this month: Bob Benwitz N9JAX SARC Member achieved his Extra. Also two Tech, two General, and one additional Extra for a total of six students passing. The next VE testing session is scheduled for 9:00 Saturday, January 7, 2016

Social: Roger Ryan W9RDR reports the Christmas Party will be held 6:30PM at Buona Beef instead of our normal January Business Meeting.

Nets: No report.

Education: Ham Radio Class: Leo N9NBH has asked the Library staff to inform availability for future classes and awaits feedback, possible to convene sometime in January~March of 2017.

EMCOMM: Bob Langsfeld WB9TZC: Third Saturday meeting is on plan.

The Village of Schaumburg hosted SARC's Registered Communications Volunteers to an appreciation dinner this past week thanking us for our Emergency Management efforts and support over the past year.

The Radio Hill Gazette: No Report.

Programs: Cliff Sowka K9QD: Our Christmas Party will be held at Buona Beef instead of the monthly Business Meeting for the month of January; therefore no presentation will be scheduled for that month. Need a presentation for February.

Ebay sales: Gary N9VU. Gary, Chris, Ron, others, went through the storage cabinets during Construction Project to list some of the more notable equipment. The group summarized about 20 of the more significant items and found eBay *closed sales* values in the vicinity of \$2,300 (high estimated total) for the entire list. Club members will be offered items in the inventory for purchase before any publication on eBay begins.

Publicity: No Report.

Old business: None.

New business: Winter Field Day is scheduled January 28~29. We participated for about 2 hours last year at the Recreation Center. Straw poll tonight shows about 5 people interested. Plans to participate again in January will be underway shortly.

Move to adjourn 7:36M. So moved.

Submitted: December 16th, 2016 Cliff Sowka K9QD Secretary

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 , 2016

Schaumburg Amateur Radio Club Board of Directors Meeting Dec 7, 2016

Kevin KB9QVX called the meeting to order at 7:02 PM.

Attendees

Frank Giampa	N9QPD
Mel Luxenberg	W9FRT
Kent Ochs	W9KAO
Leo Ribordy	N9NBH
Gary Bernstein	N9VU
Cliff Sowka	K9QD
Russ Schmidt	KC9NUV
Roger Ryan	W9RDR
David Hug	KD9CDI
Dirk Smith	K9DFS
Ted Lester	AB9SZ
Steve Karsen	AC9EM

Treasurer's report: Chris Brewer AC9GN not present. Previous report: Beginning balance for the month was \$4,594.79 with income of \$0 from Dues. Expense was \$50 for ongoing data line expense. Ending Balance of \$4,554.97.

SARC Repeater: Kent W9KAO reports K9IIK's 2M linear has suffered catastrophic failure. The power supply is still okay but the amp is toast. Russ KC9NUV visited Crescent Technologies to find they have a replacement PCB for approximately \$300. Russ moved approval of \$800 repair budget with Gary seconding. So moved.

There should be enough funds authorized now to cover rebuild/calibrate/replace and hopefully we can have the transmit power restored shortly.

Public Service Rob Glowacki N9MVO not present. Rob previously reported our club's activities for the year are finished.

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

President's Report: This will be my last President's Report in 2016 as my term is coming to an end on December 31, 2016. It has certainly been an honor and a pleasure to have served as President of the

Schaumburg Amateur Radio Club in 2016. It has been great getting to know all the members and working with the officers and board.

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.

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	Secretary
Chris Brewer, AC9GN	Treasurer
Kent Ochs, W9KAO	Director
Dirk Smith, K9DFS	Director

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... Dirk has paid the deposit \$100. 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.

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 Christmas, New Year, and Holiday Season!

RHG: Ken Hopkins WA9WCP not present. Ken needs articles for the RHG.

Construction Project: Ted Lester AB9SZ: The 2M antenna coax appears to remain in place on the south side of the building where we hold our Construction Project meetings. We may be able to place a NEMA box tie-wrapped to the nearby fencing to house a new BNC termination to enable a temporary extension cable down the fire stairs and into the basement if needed.

VE Testing: Dirk K9DFS reported the VE testing sessions indicate there are many new hams requiring *Elmering* in basic radio implementation. Will recommend new students join us for the Construction Project meetings; we have already gained three new attendees as a result of openly offering new hams attend our club's construction activity at the Tennis Club.

Social: Roger Ryan W9RDR reports the Christmas Party will be held 6:30PM at Buona Beef instead of our normal January Business Meeting.

Nets: No report.

Education: Ham Radio Class: Leo N9NBH reports the library meeting venue can be made available for another Technician level course. Possible to convene sometime in January~March of 2017.

EMCOMM: Bob Langsfeld WB9TZC: Not Present but reported the Cold Wash results for the Schaumburg SHAKER emergency exercise: we need training for Just in Time (JIT) volunteers. Bob will author a DRAFT JIT training package and have ready for use at a planned Round Table exercise.

Future EMMCOMM training will include National Traffic System nets and the ICS-213 message forms vs. tactical traffic. Meetings will stress the need for increasing everyone's simplex capabilities even though the FUSION system is emergency powered on the Hospital's internal grid.

The Village of Schaumburg invited SARC's Registered Communications Volunteers to an appreciation dinner next week thanking them for their Emergency Management efforts and support over the past year.

The Radio Hill Gazette: No Report.

Programs: Cliff Sowka K9QD: Russian Woodpecker video is scheduled for December meeting.

Ebay sales: Gary N9VU no sales currently listed.

Publicity No Report.

Old business: None.

New business: Dirk Smith K9DFS suggests Field Day discussion for the new environment we'll encounter at the Medinah park facility this coming spring. Our club will require recruiting a new Chairperson to handle the planning set-up, logistics, food, and public awareness in the press.

Frank N9QPD reported EmCOMM meeting held at the Hoffman Estates Police Station in November disclosed the need for portable J-POLE capability. Frank recommended our club should consider constructing portable J-POLE kits.

Move to adjourn 8:23PM. So moved.

Submitted: December 8th, 2016 Cliff Sowka

Club Officers2017

President: Mel Luxenburg, W9FRT

Vice Pres. Matt Walsh, AC9IG

Treasurer: Chris Brewer, AC9GN

Secretary: Cliff Sowka, K9QD

Director: Kent Ochs, W9KAO

Director: Dirk Smith, K9DFS

Club Committees

Programs	Cliff Sowka, K9QD
Social Activities	Roger Ryan, W9RDR
Membership	Bob Benwitz, N9JAX
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	Open
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.

Just a reminder we meet at our regularly scheduled time for the SARC Construction Project Meeting from 8am until around noon at the Schaumburg Tennis Plus, 1416 Payne Rd, Schaumburg. Bring your radio projects, ideas, or just bring yourself to the event. All are welcome so bring a friend as well. These meetings are held on the 2nd and 4th Saturday of the month from 8:00 A.M. to Noon.



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. K9IIK 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>

