



Forsyth Amateur Radio Club, Inc.

Newsletter



January, 2017

Founded December 30, 1930

The Winston-Salem Firstfest

Official ARRL Sanctioned Hamfest!



January 14 is the FARC winter hamfest. Bundle up and come on out. Bringing some goodies for sale is optional, but always preferred.

AT SUMMIT SCHOOL in Winston Salem, NC!

Saturday, January 14, 2017 - 7AM - 11:00 AM,

\$5 Admission, Inside Area Opens to the Public at 8:00 AM

Summit School Dining Area, 2100 Reynolda Road, Winston-Salem

Large Outdoor Tailgating Area! (Free)
Premium Indoor Space Available!
Move in assistance for Inside Vendors!
Free Coffee & Donuts for Early Birds!

PRIZES!!! (DRAWING AT 11:00am- MUST BE PRESENT TO WIN)

Contact Us via Email for License Testing at:
info(@)w4nc.com
(Leave out Brackets around the @ symbol of course)

Dealers attending the WS FirstFest include:

- Triad Electronics - New and Used ham equipment/accessories/parts
- DBJ Radio & Electronics - New and Used ham equipment/accessories/parts
- DWE Engineering - tubes, parts, custom design
- K4NET Computers - new/used PC's/laptops/peripherals/more!
- And Other Great Vendors!

For dealer and fleamarket info send email to:
hamfest(@)w4nc.com
Reserve limited inside Round Tables by emailing us at -
hamfest(@)w4nc.com

Talk-In 146.64 (100Hz) - alternate 145.47, (100 Hz)

And the winner is...

The monthly Baofeng drawing has been running since late 2015. All leading up to a 2-meter/440 radio at the December dinner. And the winner is . . . Jim Mansfield, WA4NOT. Thanks to Christina-Marie Heidtmann for drawing the winning ticket and thanks to all who participated. More pictures on page 3.



January Homebrew Meeting Show-&-Tell

by Don, WS4NC

Build something, bring it, tell us about it. Duh! Then wait for the adulation of your peers! 'nuff said.

Forsyth Amateur Radio Club, Inc is a non-profit (IRS 501(c)3) North Carolina corporation for the promotion of Amateur Radio, and for the education and training of hams and the general public primarily in Forsyth County, North Carolina.

FARC was originally incorporated as the Winston-Salem Radio Club on December 31, 1930 and has been in operation ever since. We currently maintain a state-of-the-art ham station in the basement of the Red Cross, 690 Coliseum Dr., Winston-Salem, NC and also maintain two 2-meter repeaters, 146.64 (100 Hz tone) and 145.47 (100 Hz tone) and a 444.275 repeater (100 Hz tone).

FARC has a general membership meeting with a program on the 2nd Monday of every month at the Red Cross building, 690 Coliseum Drive in Winston-Salem. The club conducts its main business meeting (the Board Meeting) on the 3rd Monday generally at Ham's Restaurant, located in the Thruway Lower Mall on Knollwood Street. This is where most of the club's business is conducted and all attending members have a vote. All club members are strongly encouraged to attend the business meeting. For more information about FARC mail us at FARC, Inc., PO Box 11361, Winston-Salem, NC, 27116; call 336-245-5740; or visit our web site at www.w4nc.com

Club email is to [info <at> w4nc <dot> com](mailto:info@w4nc.com) *

Officers for 2017 are:

President: David Shoaf, KC4X
Vice-President: Geoff Rudy, KK4MOV
Secretary: Jim Register, KV4SJ
Treasurer: Kent Englebert, K4HKE
Newsletter Editor: Don Edwards, WS4NC
Tech Chairman: Dale Mierisch, WB9SZL
Hamfest Chairman: Open
Field Day Chairman: Open
Hospitality Chairman: Open

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We trade newsletters with other clubs, and many clubs are on our mailing list. If your club has a newsletter and would like to trade please send us a copy.

Submissions and inquiries please send to [ws4nc <at> dwepe <dot> com](mailto:ws4nc@dwepe.com) *

*The "funny" email addresses are to confuse the Spam bots. Spam shall be cause of the fall of Western Civilization. Either that or the spork.



FCC Exams Report and FARC Membership

by, Dale Mierisch, WB9SZL
VEC Session Manager

Due to the Holidays there were no FCC exams offered in December. We will be back in January.

Amateur Radio License Testing!

Amateur radio testing is available for new applicants as well as upgrades. Exams will be given the 2nd Monday of every month, except December, prior to the FARC regular meeting. The time is 6:30 PM and the place is the Red Cross building on 690 Coliseum Drive in Winston-Salem. Pre-registration is required via e-mail, listing the elements you wish to test for, your phone number and email address. You may pre-register or get additional information via Email to testing@w4nc.com Attention Dale Mierisch WB9SZL

Please note that candidates wishing to upgrade their license MUST bring:

- A) Their original license for viewing
- B) Two copies of their license, one of which Must be attached to their FCC Form 605.
- C) The Original CSCE and One Copy of their CSCE if they have one.

For new hams, please complete the information on the FARC application (usually the last page of the Newsletter), if you have not already done so, for a free Membership to the Forsyth Amateur Radio Club (FARC). Mark the form "New Ham - Exam date". Once the form is completed, bring to the next club meeting, or please scan and email to me.

Exams are offered before the FARC meeting (2nd Monday at the Red Cross) and start at 6:30 PM in room 109 at the Red Cross building. You are Encouraged to arrive early at 6:20 PM Preregistration is strongly suggested at [info <at> w4nc <dot> com](mailto:info@w4nc.com). We try to accommodate walk-ins if we can.

Our biggest challenge continues to be encouraging upgrade candidates to bring a copy of their license to exam sessions. Effective July 1, 2016, upgrade candidates forgetting copies of their license, will be dismissed and invited to bring their license copy to next month's exam session. A copy of your license must accompany the application to the FCC. Any missing copies

unfortunately delays the entire license process for all exam candidates. Bring your original license, if you have one, two forms of ID, \$12.00 and successful completion forms (CSCE's - if any).

How to print a copy of your FCC License

by Don, WS4NC

1. Go to:
<http://wireless2.fcc.gov/UlsApp/UlsSearch/searchLicense.jsp>
2. Search for your call sign.
3. Click on your call sign
4. Click on the ADMIN tab
5. Click on "Authorization -- Licensee"
6. Your reference copy license will open in a PDF file for printing or saving.

FARC December Dinner Meeting

We met for food and fun at River Ridge Tap House in December to celebrate the conclusion of our 85th year as a club. Outgoing President Jim Atkins, W4UX presented the Ham of the Year award to Harold Richardson, N4HER in thanks for all his hard work as Vice-President. Harold and Jim are both in the first photo below. The Vice-President's main job, besides filling in for the President, is to arrange programs for the monthly meeting. Harold did a great job this. Outgoing Treasurer Henry Heidtmann presented the financial statements for the club. Financially we are in the best position we have been at the end of the year in many years. For details see the minutes. Also we welcomed incoming President David Shoaf. Pictures are courtesy of Harold Richardson.



Continued on the next page



The 2017 Classic Exchange "CX" Contest

CX is a no-pressure on air contest celebrating the older commercial and homebrew equipment that was the pride and joy of ham shacks decades ago. The objective of CX is to encourage restoration, operation and enjoyment of this older Classic ham gear. Tune in and enjoy the "good old days."

However, you need not operate a Classic rig to participate in CX. You may use any rig in the CX although new gear is at a distinct scoring disadvantage. You can still work the "great ones" with modern equipment and enjoy the sounds of yesteryear. Full details are on the CX website www.classicexchange.org

Sunday January 29, 2017 CW
Tuesday January 31, 2017 CW
Sunday February 19, 2017 - AM - SSB - FM
Tuesday February 21, 2017 - AM - SSB - FM
Operating on 160-80-40-20-15-10-6-2

The CX is a no-pressure contest celebrating the older commercial and homebrew equipment that was the pride and joy of ham shacks many decades ago. The object is to encourage restoration, operation and enjoyment of this older Classic equipment. However, you need not operate a Classic rig to participate in the CX.

YOU MAY USE ANY RIG in the contest although new gear is a distinct scoring disadvantage. You can still work the "great ones" with modern equipment. There are new Bonus Scores for using the same model rigs as your Novice station and for using a military receiver or a military transmitter. This CX will be conducted on two Sunday and Tuesday pairs separated by the Super Bowl. Hopefully these dates will avoid the RTTY and large state QSO parties. The first Sunday and Tuesday will be CW only.

The second Sunday and Tuesday will AM - SSB - FM only. There will be CX recognition for high scores in AM, SSB, FM, and CW as well as overall. For each Sunday and Tuesday pair, scores are treated as one session. *Continued on next page*



<http://qrznow.com/a-new-heathkit-so-why-am-i-not-excited/>



ARRL Heritage Museum: <http://www.arrl.org/images/view/Technology/03.jpg>

Awards will be given in two classes: 1. Three or fewer receiver-transmitter pairs, 2. Four or more receiver-transmitter pairs.

There is NO change to scoring. The classes will be sorted based on logs / equipment lists received. Due Date for submission of scores, logs, narratives and pictures is April 30, 2017. Inputs received after that date may not make it into the newsletter.

The CW CX will run from 1400 UTC January 29 to 0800 UTC January 30, 2017 (9 AM Eastern Time on Sunday to 3 AM Eastern Time Monday) AND From 1400 UTC January 31 to 0800 UTC February, 1, 2017 (9 AM Eastern Time on Tuesday to 3 AM Eastern Time Wednesday)

Send: "CQ CX"

The PHONE CX will run from 1400 UTC February 19 to 0800 UTC February 20, 2017. (9 AM Eastern Time on Sunday to 3 AM Eastern Time Monday) AND From 1400 UTC February 21 to 0800 UTC February 22, 2017 (9 AM Eastern Time on Tuesday to 3 AM Eastern Time Wednesday)

Call: "CQ Classic Exchange"

PLEASE OPERATE AROUND THESE SUGGESTED CX FREQUENCIES AND AVOID OPERATING SSB IN THE AM WINDOWS. Suggested Frequencies -- plus/minus QRM. Listen up and down 5 to 10 Kc for crystal controlled stations:

BAND	160	80	40	20	15	10	6	2
CW	1,810 mc	3,545 mc	7,045 mc	14,045 mc.	21,045 mc	28,045 mc.	50,100 mc.	144,100 mc.
AM	1,890 mc.	3,860 mc.	7,270 mc.	14,280 mc.	21,400 mc.	29,000 mc.	50,300 mc.	144,300 mc.
SSB	1,920 mc.	3,840 mc	7,250 mc.	14,260 mc.	21,380 mc	28,600 mc.	50,125 mc	144,200 mc.

Exchange your name, RST, QTH (state US, province for Canada, country for DX), receiver and transmitter manufacturer/model (homebrew send final amp tube or transistor type) and other interesting conversation. The same station may be worked with different equipment combinations on each band and in each mode. Non-participating stations may be worked for score if all required information is exchanged. All QSOs must be direct radio communications - not through repeaters or the Internet

SCORING - EASIER THAN EVER! TWO STEPS:

1. Calculate your score for each mode (AM, SSB, FM, CW)

2. Total those scores and add your bonus scores for your overall CX score.

To calculate the score for the mode: Multiply the total number of complete QSOs (all bands) in that mode by your CX multiplier. Complete QSO requires successful exchange of name, QTH, RS(T), type of transmitter and type of receiver. CX multiplier is the total age in years old of all receivers and transmitters you used in that mode. Do not include age of ancillary items such as separate VFO, amplifier, key or bug, antenna, tree holding up antenna, operating desk, operator, or operator's dog. Each receiver and transmitter must be used in a minimum of three complete QSOs to be counted in the multiplier. If the equipment is homebrew, count it as a minimum of 25 years old unless actual construction date or date of its construction article is older. Transceivers score as separate receivers and transmitters of equal age.

NEW BONUS SCORES

To reward those using older gear, up to 2,000 point bonus will be awarded to every CX participant who operates the same model rig as their Novice station. One receiver and one transmitter may be counted and are worth 1,000 points each. Up to 2,000 point bonus will be awarded to every CX participant who operates a military receiver or military transmitter. One receiver and one transmitter may be counted and are worth 1,000 points each. A Heathkit transceiver can be counted as both a transmitter and receiver here. Please note these bonus points in your score summary

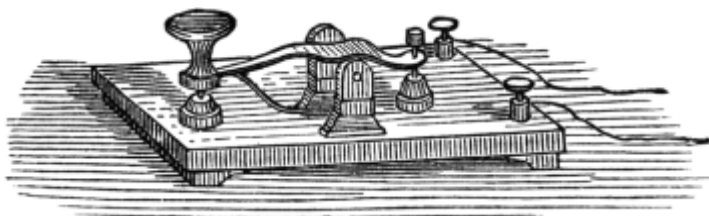
You can prepare a grid like this as a summary:

MODE	QSOs	Total age of gear	SCORE
AM	10	120	1,200
CW	70	700	49,000
SSB	100	425	42,500
FM	5	100	500
NOVICE RIG	Heathkit AT-1	Howard 435A	2,000
BONUS RIG	ARC-5	BC-348-Q	2,000
GRAND TOTAL			97,200

Please send a copy of your log and a listing the equipment used with ages for each mode. Other information such as most interesting QSO, rig with the worst chirp, unusual events preparing for or during CX and interesting stories about your classic gear Also, please send pictures of you, your shacks, and antennas. Certificates and/or other recognition will be awarded for the highest score, the longest DX, exotic equipment, best excuses and other unusual achievements. Send logs, comments, anecdotes, pictures, etc. to J.D. "Mac" MacAulay, wq8u@arrl.net E-MAIL IS PREFERRED BUT NOT ABSOLUTELY NECESSARY See www.classicexchange.org



<https://www.prismnet.com/~nielw/1951NoviceStation/1951station.htm>



carefully curated his ideal installation. He walked the halls of the museum, selecting Old Master paintings for his composition, then painstakingly copied the paintings and “installed” them in the virtual gallery. He also included several figures, including himself, in the center, instructing a young woman, and his good friend James Fenimore Cooper, the American writer, shown with his family. The resulting monumental canvas—six feet by nine feet—was both an example of Morse’s erudition and skill and a tool of instruction for American viewers who did not have access to Renaissance and Baroque paintings.

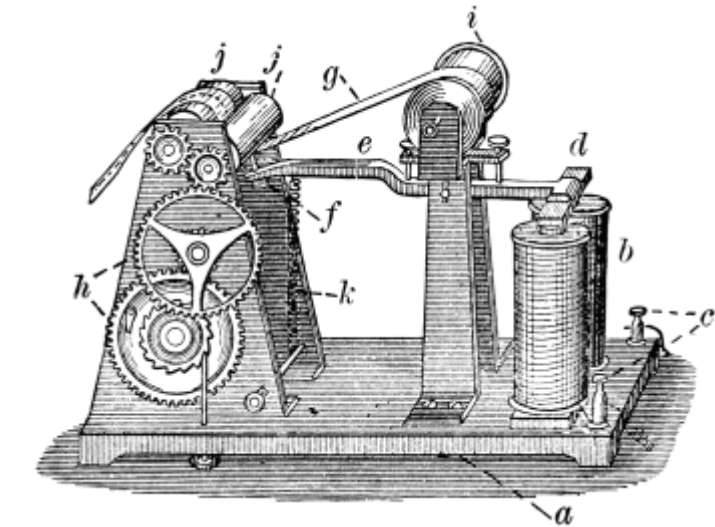
Morse, highly curious and well educated, was as interested in science and literature as he was in art. While returning to United States by ship in 1832, he conceived the idea for the machine that would become the telegraph, even making a crude prototype on board. From then on, technological inventions would occupy him more than art. The disappointing public reception of the Gallery of the Louvre in New York and Connecticut likely contributed to his decision to abandon painting. Today, the painting is recognized as a key work in the development of American art.

In many ways, however, the painting and the telegraph demonstrate Morse’s interest in a single subject: the transmission of knowledge. Morse created the Gallery of the Louvre to instruct American audiences about important works of art. He created the telegraph to communicate information quickly and across great distances. The painting thus serves as a bridge between old modes of communication and new technological tools that heralded the information age. The painting also addresses complex themes such as the relationship between art and science, literature and theater, geography and mapping, artistic practice and the establishment of the canon, invention and technology, and religion. Reynolda’s exhibition of the painting, called Samuel F.B. Morse’s Gallery of the Louvre and the Art of Invention, will include Morse’s epic painting, as well as early telegraph machines, books, and prints to explore these themes as well as to consider the history of the transmission of information.

[Editor’s note: Thanks to Ray Purdom for being FARC Liaison for this event. FARC is working with Reynolda House with some very special plans for this event. More will be in future Newsletters as the plans become finalized.]

How FARC Will be Involved

There will be more about this in future Newsletters as plans are being firmed up. Right now there is a plan for a special event station, CW only, on two dates. While I can hear some of our better CW operators groaning right now, you guys need to get on board. If possible, we might want to do a repeat of the Tonight Show event where CW and cell phone texting is done. Yes that would put a couple of people on the spot here. Also we might want to do a repeat of Morse’s first message relay between Baltimore and Washington - but we probably use the Tara Museum in Chicago and/or Smithsonian and Winston-Salem. And there are some other fairly big plans. This promises to generate a lot of media interest, even the Smithsonian is involved.



Samuel F.B. Morse’s 'Gallery of the Louvre' and the Art of Invention

EXHIBITION DATES:
Friday, February 17, 2017 - Sunday, June 4, 2017

Reynolda House Museum of American Art will welcome an American masterwork for this exhibition, Samuel F.B. Morse’s Gallery of the Louvre (1831–33). Created when the artist was living and working in Paris, the painting represents the famed Salon Carée in the Musée du Louvre. Morse spent months painting in the Louvre. Rather than faithfully representing the paintings that were hanging in the gallery, however, Morse

Upcoming Programs

Geoff, KK4MOV
FARC VP

The main FARC meeting night is always the **Second Monday night** at the Red Cross Building on Coliseum Drive with the meeting starting at 7:30 PM. FCC testing is usually available, please preregister at info <at> w4nc <dot> com. Examinees should plan on arriving at 6:20 PM.

The FARC **Business** Meeting is on the Third Monday of the month at Ham's Restaurant (where else?) at Thruway Shopping Center at 7:00 pm. All are welcome.

January 9, 2017 Annual Home Brew Show-&-Tell. Be building something for showoff. We moved this to a little later in the year because much building goes on in the late fall and winter months and this gives a little more time and it gives the new VP a little extra time to get programs planned for the next year.

February 13, 2017 Brandon Dunstan from the National Weather Service from Raleigh will be here to run our bi-annual Basic Weather Spotter/SKYWARN training. This is a highly attended program with lots of visitors. Tentative plans are to start at 7 PM. Plan on arriving early to get a good seat.

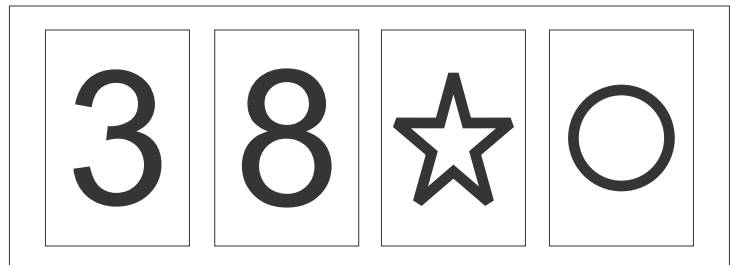
March 13, 2017 TBD: Jim Marler will do a program on Electromagnetic Pulses.

April, 2017 Charlie T. Klutzz, W4TMR, will be back with a program about low-band DX-ing.



Treasure Hunt

OK, the blue Baofengs are done, no more. So there are no curly brackets hidden somewhere in this Newsletter. All entries since the contest began were dropped in the big drawing drum along with any additional December entries and the winner was . . . Jim Mansfield, WA4NOT! A Jetstream 2-meter/440 radio was purchased at the Orlando hamfest just for this event. Thanks for participating.



December's Quiz?

Last month I posed a picture of four cards, shown again above. Each has a number on one side and a shape on the other, I posed a statement and asked you to select two cards that will come closest to proving or disproving that statement.

The statement is: "Every odd number has a star on the back." Now which two cards will you pick that will come closest to proving or disproving this? By the way, less than 10% of the population will get this right, so if you didn't don't feel bad.

Discussion

The statement "Every odd number has a star on the back" is a variation on an if-then statement. Basically it says "If the number is odd then there will be a star on the back." Obviously the first card to pick is the 3 since it is odd and will have a star **if the statement is true**. Almost everyone gets this right. The next card is tricky. Most people go for the star but turning it over proves nothing. The if-then statement does not say that it is reciprocal, that if B then A, saying that stars are exclusive to odd numbers. The statement only says that just all odd numbers have them. Turning over the 8 does not prove anything either since stars are not known to be exclusive to odd numbers. Turning over the circle would disprove the statement if there is an odd number there.

The Scientific Method as an Ongoing Process



This is called the Wason Selection Test and it looks for deductive reasoning. It is a famous test in measuring deductive logic. Amazingly, in the average population fewer than 10% get this right. I spent 10 years training technicians on troubleshooting, among other subjects. I never taught a course in formal logic, that would prove tedious and very boring for most people. But I did start posing this test to a lot of people in later classes. I found that those who were really good at troubleshooting were careful, thoughtful people. While the majority of all people did select the star as the second card, I would hazard that only about 20-25% of the students got the next card right, usually by carefully considering the options rather than jumping to an intuitive conclusion. And this was a preselected population of really bright people. I wish I had kept records, as I suspect a correlation here.

Fixing things, a.k.a. "troubleshooting" is a skill. It can be learned, but like any skill there are those who have a higher innate ability. Troubleshooting is just applied scientific method and requires a thought process that moves back and forth between inductive and deductive reasoning, and importantly it requires questioning your conclusions, often and rigorously. To borrow (badly) from Robert Pirsig's "Zen and the Art of Motorcycle Maintenance": If you ride your motorcycle over miles of desert and every time you hit a bump the engine misfires then the correct statement is "Bumps disturb something that makes the engine misfire, what is that something?" That is inductive reasoning, reasoning from general observation (bumps) to the specific conclusion (engine misfire).

Thinking about the motorcycle then focuses on the appropriate systems: fuel delivery, carburetors, air flow and the electrical system and how they can make the engine run and could make it misfire - that is deductive, reasoning from specific to general conclusions. Some systems can be ruled unlikely candidates early - like the air flow; that would most likely be slow to react and then the engine would choke down. If you decide the problem is in the carburetor and spend the next week fixing and replacing everything in the carburetor, maybe because you recently worked on it (important information), but now rebuilding it and replacing it twice to fix the engine misfire without examining the logic that took you to the carburetor - that is a serious error in logic. This kind of thinking is called confirmation bias - you look only for items that confirm your beliefs, in this case the carburetor.

There is a loop inside the Scientific Method diagram that requires you to reevaluate your tests and observations. The careful person is always checking himself. Those with arrogance and preconceived ideas seldom do. That would include all of us from time-to-time.

When you finally fix the loose wire in the ignition system you should slap yourself for wasting a week and many resources working on the carburetor. But you should learn from the experience. The example here is a bit contrived but it is just to illustrate the point. Everyone who has done much troubleshooting knows the experience. Replacing broken parts is usually easy, finding the bad part can be hard and requires thought.

This Month's quiz is to the right. Answers will be in next month's Newsletter.

1 	2 	3
4 	5 	6
7 	8 	9
10 	11 	12

ANSWER SPACE:

- | | |
|----------|-----------|
| 1. _____ | 7. _____ |
| 2. _____ | 8. _____ |
| 3. _____ | 9. _____ |
| 4. _____ | 10. _____ |
| 5. _____ | 11. _____ |
| 6. _____ | 12. _____ |

Members of the North Country DX Association (NCDXA) will be active the entire month of March 2017 from several different locations in Alaska, Yukon, Northwest Territories, Nunavut and Greenland using all NCDXA “RST” fixed station calls **KL7RST, VY1RST, VE8RST, VY0RST** and **OX7RST** to further promote Amateur Radio in northern North America. This is our 2nd annual **special event** with the addition of OX7RST, more rovers and fixed stations, new QSLs and certificates! All modes 6-160 meters and WARC bands are permissible. SWLs are welcome to participate. The object is to work or log (SWL) as many NCDXA “RST” stations as you can from their different locations. To participate you need to work each “RST” station only once per their QTH, band and mode. No cross band, cross mode or remote operating allowed. **Portable rover “RST” Stations** will also participate. Some of the portable stations are:



KL7RST/KL7, VY1RST/VY1, VY1RST/KL7, VE8RST/KL7 and VE8RST/VY1 etc. Watch the DX spots as we plan to have stations on from a Canadian research station near the North Pole on Ellesmere Island, a diamond mine in NWT, an Alaskan bush school, an OM/YL team from Nuuk, Greenland and many other cities up north large and small.

For your convenience, we’ll upload our logs to ARRL’s LotW. Full color QSLs are

available via K7ICE bio on QRZ.com. Optional full color certificates are also available (email JohnKL7JR@gmail.com for details) for working/hearing any of the “RST” stations. QSL manager **K7ICE**.

SPECIAL EVENT DURATION: March 1 through March 31, 2017.

SPECIAL EVENT EXCHANGE: NCDXA “RST” stations send signal report and QTH (ie- 5x7 Anchorage, 5x9 Whitehorse etc.). Receiving stations should send signal report and state, province or country.

SPECIAL EVENT CERTIFICATES: Beautiful full color certificates are available via K7ICE for: **Level 1...** Work any of the NCDXA “RST” stations. **Level 2...** Work all of the RST fixed stations (KL7RST, VY1RST, VE8RST, VY0RST and OX7RST). **Level 3...** For RST operators and those stations contacting them. **RST ops** work as many stations as you can, and all **others** to work as many RST stations, fixed/rover or portable as they can. Count 1 point for each QSO. All certificates will be emailed in pdf format. Thanks in advance for your DX spots!
73 de “Yukon John”, KL7JR

NCDXA “RST” stations are on Facebook. Check out the hams you worked and learn about them! <https://www.facebook.com/North-Country-DX-Assoc-K7ICE-1717462798496577/>

North Carolina QSO Party

February 26, 2017 - 1000 EST to 2000 EST

Sponsored by the Raleigh Amateur Radio Society

Enjoy The Carolina Weekend Again!

Full details at <http://www.rars.org/ncqsoparty/>

A whole weekend of Carolina fun for State QSO Party fans! Work counties for both parties and be eligible for a fabulous BBQ dinner having both North and South flavors. See South Carolina QSO Party for details. The Carolina Weekend synergy was well received in 2016 so make plans to participate in BOTH!

While we're on the subject of making plans, you can report your intent to operate via the email reflector (details on the web page), or on the County Activity web page.

Quick Start Guide

Stations in NC contact as many other stations as possible. Stations outside NC contact as many NC stations as possible. Bonuses for working W1VOA, NI4BK, W4DW, NC4QP, anyone in Graham or Anson County.

County abbreviation list here:

<http://www.rars.org/ncqsoparty/data/uploads/logging/nc-counties.pdf>

NC stations work out-of-state contacts one time per band and mode. Others outside of NC work in-state contacts once per county, band and mode. (You may work a station on 20CW and again on 40CW, for example.) Club, Expedition and Mobile operations are allowed (and encouraged!). There are separate categories for QRP, Low, and High power.

Battleship North Carolina

One of our perennial bonus stations is NI4BK. Ever wonder what it's like to operate from the Battleship North Carolina? Here's a link you might enjoy:

<https://www.youtube.com/watch?v=ZY6haEeNPOg&feature=youtu.be>

The pictures are from the youtube video on operating from NI4BK, The Battleship North Carolina. Communication center caretakers and equipment restoration are by the Azalea Coast Amateur Radio Club.



Westinghouse Model TDE transmitter, 300 - 18,100 kc, 125 watt CW, 30 watt AM phone, placed in service 9/25/44. The TDE was brought back online 5/30/2006 by "Mac" McCullough, one of the ship's original CW operators. Signal report was 579, with a hum. "But they all do that."



Calendar of Upcoming Ham Events Hamfests, Special Events, Contests, Club meetings, etc.

By Don WS4NC

[Ed. Note: Newly updated. There really isn't one source to find this information and putting this together requires digging across various club Newsletters, NC ARRL Section newsletter (thanks Karl!), QST, CQ and other sources. If you know of a correction or something that should be here please send it to ws4nc <at> dwepe <dot> com. With your help I can make this more useful list including events in NC, GA, VA, SC and TN.] *non FARC event - confirm with event sponsor.

HAMFESTS:

January 14, 2017: Winston-Salem FirstFest, Forsyth Amateur Radio Club, Winston-Salem, NC, http://www.w4nc.com/ws_classic_hamfest_2016.htm

March 10-11, 2017: Charlotte Hamfest, Mecklenburg Amateur Radio Society, Concord, NC, <https://charlottehamfest.org/>

March 25, 2017: Charleston, WV Hamfest. Charleston Civic Center, 9AM - 2 PM, table reservations: Rick Cummings WV8RC, rickwv8rc@gmail.com, 336 610-6404

April 15, 2017: Catawba Valley Hamfest, McDowell Amateur Radio Association, Morganton, NC, <http://cvhamfest.com>

April 15, 2017: 45th Annual RARSFest/ARRL Roanoke Division Convention, Raleigh Amateur Radio Society, Raleigh, NC, <http://www.rars.org/rarsfest/>

April 28-29, 2017: 2017 SVHFS Conference, Southeastern VHF Society, Charlotte, NC, <http://svhfs.org>

September 1-3, 2017: 61st Annual Shelby Hamfest/ARRL North Carolina State Convention, Shelby Amateur Radio Club, Shelby, NC, <http://www.shelbyhamfest.org>

CONTESTS:

1/1/17	SARTG New Year RTTY Contest	0800Z-1100Z, Jan 1
1/1/17	AGCW Happy New Year Contest	0900Z-1200Z, Jan 1
1/7/17	WW PMC Contest	1200Z, Jan 7 to 1200Z, Jan 8
1/7/17	ARRL RTTY Roundup	1800Z, Jan 7 to 2400Z, Jan 8
1/7/17	EUCW 160m Contest	2000Z, Jan 7 to 0700Z, Jan 8
1/8/17	DARC 10-Meter Contest	0900Z-1059Z, Jan 8
1/8/17	Midwinter Contest	1000Z-1400Z, Jan 8
1/14/17	North American QSO Party, CW	1800Z, Jan 14 to 0600Z, Jan 15
1/15/17	NRAU-Baltic Contest, CW	0630Z-0830Z, Jan 15
1/15/17	NRAU-Baltic Contest, SSB	0900Z-1100Z, Jan 15
1/21/17	LZ Open Contest	0000Z-0400Z, Jan 21
1/21/17	Hungarian DX Contest	1200Z, Jan 21 to 1200Z, Jan 22
1/22/17	North American QSO Party, SSB	1800Z, Jan 21 to 0600Z, Jan 22
1/27/17	CQ 160-Meter Contest, CW	2200Z, Jan 27 to 2159Z, Jan 29
1/28/17	REF Contest, CW	0600Z, Jan 28 to 1800Z, Jan 29
1/28/17	BARTG RTTY Sprint	1200Z, Jan 28 to 1200Z, Jan 29
1/28/17	UBA DX Contest, SSB	1300Z, Jan 28 to 1300Z, Jan 29
1/28/17	Winter Field Day	1700Z, Jan 28 to 1700Z, Jan 29
1/29/17	Classic Exchange CW Contest, see page 4	
1/31/17	Classic Exchange CW Contest, see page 4	
2/19/17	Classic Exchange AM-SSB-FM Contest, see page 4	
2/21/17	Classic Exchange AM-SSB-FM Contest, see page 4	
2/26/17	NC QSO Party, see page 10	

NEARBY HAM CLUBS AND MEETINGS:

****Quarterly QCWA Meeting** usually April, June, September and December. See the website for details. Locations varies. ALL members and guests are welcome! Wearing your Ham badge is encouraged. Always a good program. QCWA Chapter 126 Weekly Net: 3.826 MHz, 8:45AM each Saturday morning. The next Piedmont Chapter 126 meeting will be held on Saturday, September 10, 2016 at the Best Food Cafeteria in Siler City, NC. ALL members and guests are welcome! Our meeting room will be in the Steakhouse. Go into the Gift shop and take an immediate right opposite the cash register. Wearing your

Ham badge is encouraged. Directions: the Best Food Cafeteria is at 220 East 11th Street, Siler City, NC, telephone number is 919-742-2475 and located on Highway 64 about 1.9 miles West of the intersection with Highway 421, and right across the street from Marsh Auto Parts. When: Plan to arrive at 11:30 AM to socialize, dinner at 12 Noon, business and program at about 12:45 PM. Board members are requested to arrive at 11 AM. Program: The program will be by chapter member Jack Emerson, W4TJE on "The W4TJE Adventures: Activating Summits on the Air."

1st Tuesdays Durham FM Association: Meets for Dinner (optional) at 6:00pm and the business meeting and program at 7:00pm. We are meeting at Bullock's BBQ, on 3330 Quebec Drive in Durham. For more info on each meeting, check <http://www.dfma.org/>

1st Tuesdays Davie County Amateur Radio Club: This may not be accurate. Last info I had was from Kris, KB4MB that "they are 'slightly' active, but basically there is a small group of 2m guys, and a few HF guys and that is it. Maybe 6-10 members at this point?" Doyle, KM4BGJ advises that "The last meeting was in August at the Harmon Masonic Lodge located at 3229 Ray T Moore Rd. Yadkinville, NC 27055 at 7:00 pm. We will be looking forward to this meeting. The club gained several new members on Field Day and also had a new Ham get their ticket on Field Days." Contact Doyle at doyle5362 <at> yahoo <dot> com

2nd Mondays: The Orange County Radio Amateurs meet at 1900 at the Orange Count EOC in Hillsborough.

2nd Tuesdays: Raleigh Amateur Radio Society General Meeting on second Tuesday of each month, Location: Ridge Road Baptist Church, 2011 Ridge Road, Raleigh, NC, 27607. Time: People begin arriving at 7 PM, The meeting officially begins at 7:30 PM. RARS also meets for a monthly dinner on the first Tuesday of each month for the RARS dinner. Dinner begins at 6:30 PM. Next Dinner at Golden Coral, 6129 Glenwood Avenue, Raleigh 27612.

2nd Mondays Forsyth Amateur Radio Club, Inc. at the Red Cross Building on Coliseum Drive. FCC Exams are offers starting at 6:20 PM (please preregister at info <at> w4nc <dot> com.) Meetings start at 7:30 PM with a program on various ham related topics.

2nd Mondays Rowan Amateur Radio Society at the Rowan County Rescue Squad Building at 1140 Julian Road. Monthly meetings usually begin at 7:00 PM local time, except for the July and December meetings which are "dinner" meetings and thus start a little earlier, usually beginning about 6:00-6:30 PM. Programs may include equipment demonstrations, movies, guest speakers, or just open discussions on radio. We look forward to seeing you at the next meeting. <http://www.rowanars.org/>

3rd Mondays Forsyth Amateur Radio Club, Inc. Business Meeting. Open to all FARC members and interested visitors. We meet at Hams Restaurant (how appropriate!) located in Thruway Lower Mall starting at 7PM.

3rd Mondays(?): Guilford Amateur Society usually held at Tex & Shirley's Restaurant in the Friendly Shopping Center on Pembroke Rd. 6:00 PM to eat, 7:00 PM to meet. Verify the dates at <http://www.w4gg.org/>

4th Mondays(?): Guilford Amateur Radio Association Eat at 6:30pm and the meeting is at 7:15pm. Captain Bill's Seafood & Steakhouse, 6108 West Market St., Greensboro, NC 27409. Verify the dates at <http://www.w4gso.org/>

1st Saturdays(?): Tri-County Amateur Radio Club, Thomasville: Breakfast at 8:30 am on the first Saturday of each month at the Denny's in Thomasville, 103 Sedgemoor Drive (map it). For more details see: <http://nc4ar.org/us/page.php?2>

Last Mondays: Stokes County Amateur Radio Society SCARS <http://k4stk.com/index.html>

Knightlites QRP Club <http://www.knightlites.org/> Meets in Cary. See website for details.

Briarpatch Amateur Radio Club - Next club meeting in 2015 is ? ; the meeting will be held at TCRH. Meetings and FCC Test Sessions Test sessions are held at the Twin County Regional Hospital in Galax, VA unless otherwise announced. <http://galaxbarc.tripod.com>

Continued next page



1951 Schlitz Ad

This ad ran in several national magazines in 1951. Apparently Schlitz had good taste. The illustrator was John Falter. Falter was a great artist but apparently not a ham. The pillow behind the ham shows W3H . . . but not the rest of the call. It is thought that this illustration was based on a real ham but no one seems to know whom. Sadly, there is not a CW key in sight.

2 Exciting DXpeditions

BOUVET ISLAND ACTIVATION PLANNED – Three proven and experienced DXpedition leaders and a large team of operators have announced plans to activate Bouvet Island (Bouvetøya), the #2 most-wanted DXCC entity in late 2017 or early 2018. For further information, see <http://www.arrrl.org/news/bouvet-island-activation-planned> (source: ARRL website)

POLISH DXER 3Z9DX REPORTED READY TO RETURN TO NORTH KOREA ON A MOMENT'S NOTICE – Following a surprise “demonstration” operation from North Korea last December, Dom Grzyb, 3Z9DX of Poland, is waiting for the call that will allow him to return to the #1 most-wanted DXCC entity for another brief activation. For further information, see <http://www.arrrl.org/news/polish-dxer-3z9dx-reported-ready-to-return-to-north-korea-on-a-moment-s-notice> (source: ARRL website)

Help! Early FARC Records

by Don, WS4NC

Just in case it isn't obvious I am trying to locate as much old history of FARC as I can find. The club was originally called the Winston-Salem Amateur Radio Club. Sadly most all of the early records were lost in a fire in the club shack around 1960. If you have any early records of FARC we would appreciate either the donation of those or at least the opportunity to copy them. Sadly the first thing a family throws out after a ham dies is the paper work - I've been told directly by one family that “that was just old ham radio papers and work papers - no one is interested in that trash.” Well, I for one am very interested in that trash.

Amazon Smile Program

Do you buy stuff from Amazon? If you do there is a way for FARC to earn a little money here. Go to the Amazon Smile link below and register and select Forsyth Amateur Radio Club, Inc. Amazon will donate 0.5% of your purchases to FARC. It costs you nothing more, but it benefits the club. Anything you order has to be ordered from the Amazon Smile link – if, after you register, you forget to order through the smile program it will usually remind you. Again it costs you nothing more. Amazon is supporting legal 501c(3) organizations through this program. Thanks to Raja, KB6MTH for pointing this out. www.smile.amazon.com



DAYTON HAMVENTION!

[A final decision about Dayton has not yet been made. If you are interested see Don Edwards at the January meeting.] The biggest gathering of hams in the world, really. It is in May. The Dayton will be undergoing some exciting changes this year in moving to a new and larger location. Now in the planning stages the FARC group is looking for 24, that's TWENTY-FOUR, to go with us next year. We have about 20 spots filled already. The plan is to have a 24 passenger bus with a professional driver who will chauffeuring us around Dayton, to the new location and to dinner. The bus is a nice modern, air-conditioned and bathroom equipped vehicle so it will be a great ride. The cost should be around \$260 for tickets, some booth space, being chauffeured around Dayton area and rooms; basically everything except for your food. We leave Thursday morning around 8 AM and will arrive back in Winston-Salem Sunday night. We stay at the University of Dayton in the dorms, 2 to a room and 6 in one suite so we save a lot on the cost of the rooms. We will travel out to one of the better restaurants in Dayton Friday night and we will take a walking tour of Dayton's Oregon district one night. Other excursions are possible. We have to reserve rooms this month so this is subject to our getting this many rooms. And we need to fill ALL the seats. If you haven't been to an event like this is your opportunity. Payment (non-refundable unless someone takes your place) will be due around February. If you are interested see Don, WS4NC ([ws4nc <dot> don <at> gmail <dot> com](mailto:ws4nc@don@gmail.com)). We need commitments very, very soon.

Hara Arena, Home of Dayton Hamvention Closes

OK, let's get it out of the way - we all hated Hara Arena - it was old, poorly laid out, poorly maintained and (at least one year) a sewer. But it was our place we loved to hate. The Hara Arena is closing and going away. Even with its deficiencies, it had a certain allure to those of us who had been there year after year. The Hamvention must move.

The Dayton ARC has announced that the Hamvention will move to the Greene County Fairgrounds in Xenia, Ohio. In the two maps shown here to the same scale it is obvious that the Fairgrounds is a much bigger place with lots of open green space. Paved parking might be an issue but I expect a lot of that open green space will be used for parking, and hopefully for fleamarket.



Hara Arena is the large paved spot in the middle of picture. Most of the area around Hara is other businesses, but the grassy fields were used for parking.

Those of us who stay at University of Dayton will see little difference in travel, I expect, since Google Maps puts the time to Hara Arena as 21 minutes and to Green County Fairgrounds as 24 minutes. It is longer but better roads and not through town traffic (mostly). Your actual mileage may vary. We'll see.

As to the Hamvention itself there will be some adjustment pains. There is less commercial space and some of that will be covered cattle barns with concrete floors but no AC. Since it is in May that may or may not be an issue. Some years it has been cool and below 40 degrees, some years it has been hotter than a late summer jalapeño.

The buildings are all nearly new, so that is a plus. Sadly Xenia was hit by tornados, most recently in 2000, but that has resulted in all new buildings at the Fairgrounds. How the fleamarket area will be split up is not clear yet.

The Dayton (now Xenia?) Hamvention is a major event. It draws 25,000+ attendees from at least 60 countries. It is estimated to bring about \$18,000,000 in revenue to the area. Major ham manufacturers usually announce their new products there. The fleamarket is without comparison. If you walk all the rows you moved so fast that you can not see everything, especially in the fleamarket where the best goodies usually require some digging.

The Greene County fairgrounds take up most of the area below. Lots of grassy areas and new buildings - but some are cattle barns.



Our group that goes up each year is usually limited to 12, although we have discussed doubling that and hiring a professional driver and a bus (see page 10). It is up for discussion. The costs for the trip will probably be under \$300 (maybe closer to \$260) for a place to stay, tickets and a sitting spot in our booth. That is an estimate, not a firm price. Basically all but food. Payment would be due in February or before - so by the time May is here it is paid for. The decision on how this will unfold is still open but will have to be finalized by the middle of December. If we stay with the 12 probably all spots are full - we already have 20+ requests for the bigger group of 24. We'll see what happens. If you are seriously interested see Henry Heidtmann at one of the club meetings and soon - as we have to commit on rooms as soon as they are available.

Minutes of the Forsyth Amateur Radio Club - 5 December 2016

by Jim Register, KV4SJ
Secretary, Forsyth Amateur Radio Club

1. Call to Order and Welcome: The annual Forsyth Amateur Radio Club Holiday Dinner Meeting at the River Ridge Tap House was called to order by President Jim Atkins-W4UX, at 1858 hours. He welcomed all attendees, Doc Holliday-WB4QIZ said grace, and Jim then suspended further business during dinner. Business was resumed at 1945 hours.

2. Treasurers Report: Henry Heidtmann-W2DZO gave a detailed 2016 FARC financial report via a power point presentation which is reproduced below:

a. Slide One:

January 2016 Beginning Balance:	\$2400.52
Income:	
Dues:	1960.00
Hamfests:	
Revenue:	1879.16
Expenses:	(435.40)
HF Profit:	1443.76
Donations:	2627.45
Total Income:	\$6031.21

b. Slide Two:

Expenses:	
Repeater Phone:	412.67
Cable - Shack*:	412.25
Office:	263.46
House:	319.15
Field Day:	1016.82
Asset:	1207.17
Insurance:	779.00
Total Expenses:	\$4410.52
*Benefits Red Cross as well	

c. Slide Three:

1/1/2016 Balance:	\$2400.52
2016 Income:	6031.21
2016 Expenses:	4410.52
12/5/2016 Balance:	\$4021.21

3. Dayton Group Trip Update: Henry Heidtmann-W2DZO reported that the University of Dayton has changed their business model, requiring payment in full at the time of reservation as well as raising the room rates from \$120 to \$175 so there is no savings over regular commercial lodging. He thought about the \$2700 he would have to put on his credit card for his friends to go to Dayton for a second or two, but he's not going to try to put the group trip together this year. There are rumblings of others looking into the possibility, but nothing definite.

3. Thanks to Outgoing 2016 Club Officers: Jim Adkins-W4UX recognized the outgoing 2016 Forsyth Amateur Radio Club officers. Persons recognized were Vice

President Harold Richardson-N4HER, Secretary Terry Brown-AK4D and Treasurer Henry Heidtmann-W2DZO.

4. Ham of the Year: President Jim Atkins-W4UX presented Harold Richardson-N4HER with the FARC Ham of the Year award for his leadership role this year and supporting every club event this year. Harold gave a brief but memorable acceptance speech.

5. Presentation to President David Shoaf-KC4X: 2016 FARC President Jim Atkins-W4UX presented incoming President David Shoaf-KC4X with a ham radio necktie. David then recognized President Jim Atkins for his service this year.

6. No December business meeting: Jim Atkins-W4UX announced that there will be no business meeting in December, and opened the floor for new business and announcements.

7. Social Media: David Shoaf-KC4X invited members who use Facebook to use and update the Facebook pages for W4NC and W4NC Hamfest with whatever is going on. The W4NC.com website will be updated early next year. He also invited members to contribute ideas for new things to do.

8. ARES update: Jim Mansfield, WA4NOT reported that FARC will be participating in the 2017 MS Tour to Tanglewood, but the Pilot Mountain event has been canceled - race management didn't get enough entries.

9. Radio Prize Winner: Jim Mansfield, WA4NOT was the winner of the 2M/440 mobile rig.

10. W4NC Live: Webcam has been installed at the Red Cross, and some minor adjustments still need to be made. Don's presentation on the electronics workbench can be seen there.

11. Adjournment of Meeting: Motion to adjourn the meeting was made and seconded by many attendees. Meeting was adjourned around 2015 hours.

12. Partial List of Meeting Attendees: Below are the names of FARC members by table. Yes, we are missing a few names, we didn't send around a sign-in sheet,

Table 1:

Henry Heidtmann-W2DZO
Julie Heidtmann
Jeff Stafford-AC4YN
Brian Kuebert-N4UEZ
Jim Register-KV4SJ
Christina Marie Heidtmann
Terry and Janie Brown-AK4D

Table 2:

Doc Holliday-WB4QIZ
Bob McClellan-W3AVB
Mary McClellan-KM4WPO
Jim Mansfield-WA4NOT
???

Table 3:

Gene Bowman-WB4MSG
Cathey Bowman-KB4TKO
Karen Miller, XYL WA4VMC
Gary Miller-WA4VMC
Kenneth Melvin-KM4NFQ
Catherine Melvin-KM4OCS
John Kippe-K1PPE

Table 4:

???
Steven Ittis-KM4OCR
Steve Patterson-WA3RTC
Harold Richardson-N4HER
Mike Adkins-N4VE
Jerry Minor-K4GW

Table 5:

Van Key-KC4WSK
David Larson, KM4RAB
Tony Poindexter, KW4OQ
Mason Matrazzo-KM4SII
Harlan Cobert-W1HRC

Table 6:

David & Barbara Shoaf, KC4X
Don Edwards, WS4NC
Bill & Pat Starkey, N4WWS
Geoff and Beth Rudy-KK4MOV
Jim Atkins-W4UX

Closing Reminders:

Club Meeting: Monday, Jan 9, 2017 Program: Home Brew, starts at 7:30pm.

First Fest: Saturday, Jan 14, 2017.

Club Meeting: February 13, 2017 Program: Skywarn with Brandon Donstan, starts early 7:00 pm, will probably run late.

Steve Patterson's project discussion group meets on the third Tuesday at the Miller Park Recreation Center at 7:00 pm (Next meeting Dec 20, 2016)

Minutes of the Board of Directors of the Forsyth Amateur Radio Club - December 2016

by Jim Register, KV4SJ
Secretary, Forsyth Amateur Radio Club

Due to the holidays there was no board of Directors meeting in December.

FL Warford, Jr., WW4FL-SK

Flavius L (FL) Warford, Jr, of Thomasville passed away in early December.



by Don, WS4NC

Welcome to our new officers. And please welcome them at the January meeting and help them get the job done this year.

I will try to get another test equipment article out next month. With the holidays I just didn't find time this month.



In digging up some photos for the CX contest I found the photo above. I can't find the link again, I think this was British. It is a really beautiful piece of homebrew, getting close to a hundred years old.

Thanks to all who contributed to this month's Newsletter. I'm still looking for any old records that relate to FARC or hams who were in Forsyth and surrounding counties. I'll post one more classic novice station from the 1960s below. I remember the 1960s looking through the Allied and Radio Shack catalogs and dreaming about the gear. I built one of the Knight-Kit T-60 transmitters shown below at the right. The year was 1963.

73, Don WS4NC



<https://www.flickr.com/photos/40854933@N00/358154232>

Forsyth Amateur Radio Club Membership Form

 Call Sign Birthday (MM/DD/YYYY) First Name MI Last Name Suffix

 Street or Mail Delivery Address Email Address

 City State Zip +4 (Yes) (No)
 ARRL Member (Yes) (No)
 ARES Member (Email) (US Mail)
 Get Newsletter By

 Home Phone (Yes)(No)
 Publish? Cell Phone (Yes)(No)
 Publish? Work Phone (Yes)(No)
 Publish?

 Emergency Contact Number(s) Emergency Contact Name

 Name of Ham Family Member 1 Call Sign

 Name of Ham Family Member 2 Call Sign

Note: Full Membership and family members must be licensed hams.

Please check in the box below any special interests and NIMS course accomplishments:

<input type="checkbox"/> CW <input type="checkbox"/> SSB <input type="checkbox"/> Digital <input type="checkbox"/> QRP <input type="checkbox"/> DX <input type="checkbox"/> HF Contests <input type="checkbox"/> VHF Contests <input type="checkbox"/> Science Disc. <input type="checkbox"/> Arduino <input type="checkbox"/> Raspberry Pi <input type="checkbox"/> Kit Building <input type="checkbox"/> Test Equipment	<input type="checkbox"/> ARES <input type="checkbox"/> Public Service <input type="checkbox"/> Emergency Comms <input type="checkbox"/> NIMS 100 <input type="checkbox"/> NIMS 200 <input type="checkbox"/> NIMS 700 <input type="checkbox"/> NIMS 800 <input type="checkbox"/> Nets <input type="checkbox"/> Antenna Building <input type="checkbox"/> Microwave Comms <input type="checkbox"/> Satellite Comms <input type="checkbox"/> Earth Moon Earth	<input type="checkbox"/> Fox Hunts <input type="checkbox"/> Shortwave Listening <input type="checkbox"/> Ham Astronomy <input type="checkbox"/> Vagabond Network <input type="checkbox"/> Yaesu System Fusion <input type="checkbox"/> Digital Mobile Radio <input type="checkbox"/> Icom D-Star <input type="checkbox"/> FARC Board/Business <input type="checkbox"/> FARC Committees _____ _____ _____	<p style="text-align: center;">Dues Expire in December</p> 1. Regular Dues \$24. If over 65 or full time student, dues are \$12 _____ 2. Donations: (Appreciated!!) _____ 3. Total: _____
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Please make sure your email address is correct. The FARC Newsletter is normally sent to email addresses only because of cost which is now about \$1.00 each if printed and mailed. Although almost everyone has an email address, we will still send some mailings upon special request for those without internet access.

Line three above is asking if you are an ARRL member (Y or N) or an ARES member (Y or N). We track ARRL membership because we are required to maintain a certain percentage to keep our ARRL certifications. ARES membership info is required so that the back of your membership card will show ARES for ARES identification. For ARES members, there is training that you should complete to participate with formal emergency organizations in big emergencies. The needed NIMS courses for participation with those formal emergency organizations are mentioned above in the special interest section. There is a ARES net on 145.47 on Thursday evenings at 2030 hours (open to all) and many fun ARES public service events during the year, often with FREE T-shirts for participants.

For the 6th and 7th lines above, if there is more one licensed ham in the family at the same address, all may be members for FREE after one paid membership.

Please complete the above and return this sheet along with your dues to address below or give to Henry, W2DZO at the next Club meeting. Even if your dues are paid please return this information sheet so club records and your emergency contact info can be kept up to date.

Forsyth Amateur Radio Club, Inc.
 PO Box 11361
 Winston-Salem, NC
 27116-1361
 Internet address: <http://www.w4nc.com>

Thank you and 73,
 Don, WS4NC, FARC Newsletter Editor and
 Terry, AK4D, FARC Secretary