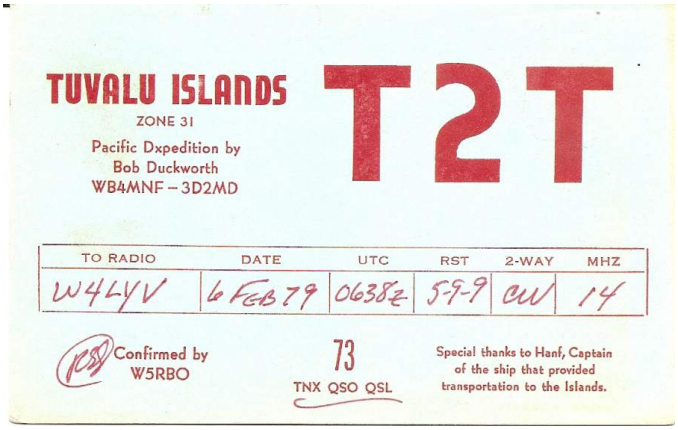
Forsyth Amateur Radio Club, Inc.
Newsletter
OUR 84TH YEAR!
Founded December 30, 1930
May, 2015



"T2T" - Tour-To-Tanglewood?

by Don, WS4NC

Actually Tour-To-Tanglewood, or "T2T" is in September. And Jim Mansfield, our Forsyth County ARES EC, has been involved in the planning of this year's event. This note is to help all of us start thinking about the participating in the Tour-To-Tanglewood, a September event that requires the largest manpower investment of ARES and FARC during the year. See pg. 15 for more on T2T.

But this T2T, the station, was a 1979 DX-pedition to the Tuvalu Islands. The card is courtesy of Dave Rawley, N4XO.

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More from the Way-Back Machine - Stories from Ham Radio History

By Don WS4NC

[Ed. Note: "Poke-Key"-This story first appeared in "The Open Road for Boys", a magazine for boys that was published from November, 1919 until the early 1950s[1]. I first read the story in an old 1939 school literature book[2] that I bought for "one thin dime" when I was about 8 or 9, ca. 1961-62. I have kept that book for all these years because of this one story. I don't know what year this story was first published. Let's just say it is 1929-1934.[3] Some historical notes are at the end of the story.

Poke-Key

By Chester Wesman

[Duggy Snow was a "ham" - an amateur radio operator. To send out a CQ (a call to anyone who hears it to respond) seemed to him the best hobby in the world. His friends disagreed. What will you think?]

FOOTBALL OR RADIO?

As the gang started to walk home that fall afternoon, shortly after school had opened, Duggy Snow somehow realized that the fellows were "off" him.

The group plodded along together for several minutes, strangely silent, then stopped as one man when "Tubby" Tilford turned on Duggy and inquired, "Look here, Duggy, are you, or aren't you, going out for football."

Duggy looked down at the sidewalk "No," he answered "I don't think so."

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[1] Wikipedia: "The Open Road for Boys"

[2] "Contact! Growth in Reading: Book Two" by Robert C. Pooley and Fred G. Walcott. Copyright 1939 by Scott, Foresman and Company.

[3] Dating the story exactly without a copy of the magazine is problematic - historical details are at the end of the story. At the time sending US Mail by airplane seems a brilliant, if dangerous, idea; car radios, and even cars, are new – even if you had a 1924 Maxwell or a 1933 Dodge there were few good roads; only a few people have telephones, most of those did not have a dial – the WE 102 dial telephone was developed in 1927; a basic AM radio costs more than a high-end TV today. It is a truly different world that is hard to imagine today, although the rapid change of technology seemed just as incredible at the time.]

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 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 out web site at www.w4nc.com

Club email is to info <at> w4nc <dot> com *

Officers for 2015 are:

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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 *

*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.

"What!" exclaimed Tubby, loudly for the benefit of the group. "A big husky guy like you, what's the matter with you anyway?"

Duggy's face flushed "I don't think I'll have time" he said.

"Time!" Tubby scoffed. "Or is it only that radio foolishness of yours? You'd rather sit on top of a mountain in a dirty old shack, monkeying with a bunch of wires and junk, than to do something worthwhile like being on the football team."

Duggy shook his head miserably. "You don't understand," he said. "I don't get any fun out of football. I – well, radio's different, that's all."

"Aw, shucks," snorted Sam Bailey. "Someday you'll wish you'd taken our advice and made the team. You never really played football; so you don't know anything about it."

"Maybe not, but you've never operated a station, either. You don't know anything about *that*."

Sam waved his arms disgustedly. "Anybody can see all there is to that. You sit down and poke a key, and then you listen to a lot of dots and dashes to see if anybody heard you. But in football you run with the ball, block, and figure things out fast. That's real stuff"

Abandoning the argument for the present the group moved on again.

"Say, Tubby, when is your dad going to show us some more those slick football plays?" asked Sam. He was referring to the fact that Mr. Tilford, an old football star at Princeton, had been giving the boys some suggestions for improving their play

"I'm afraid Dad won't be able to help us anymore this year," Tubby stated gravely. "He's flying mail on the West route now."

"On the West route?" queried Sam with awe in his voice.

"Since when?" asked Pat.

"Day after Hanniman cracked up on it."

Suddenly the boys became uncomfortably silent. The dangerous West route wound through the mountain ranges about 50 miles west of town. Among those mountains lurked hazards that had already claimed the lives of three crack pilots. The boys knew that Tubby was wondering how soon his dad might lose in this dangerous game, as the others had.

SWITCHES AND DIALS

The next Saturday afternoon after a long climb through government forest virgin timber, the Snows' automobile came to a stop far up the rutted, snaky road that led to the Knob. From that point to the summit, only a narrow trail wound between steep cliffs.

"Well, here we are again, Son," smiled Mr. Snow.

"Okay, dad," cried Duggy. "What time tomorrow morning will you come after me?"

"Around 10 o'clock, I guess. Sure you got enough grub in that little bag?"

"You bet," Duggy called back, already striding toward the Knob. "Plenty."

"Don't get so wrapped up in your radio that you forget to eat!"

The sound of his father's motor faded in the distance as Duggy unlocked the door of his little shack and stepped inside. No "bunch of wires and junk," as Tubby and the boys described it, met his appraising glance. On the contrary, the careful arrangement of switches and dials made the station look neat and orderly in spite of the fact that the outfit consisted mainly of parts gathered together from old sets. Duggy felt proud of the fact that he built it all himself, and that the few parts he had needed to buy were purchased with money he had earned.

He drew a deep breath and smiled contentedly. Everything appeared just as he had left it the week before. Now to check up before daylight failed.

Beside the station a building resembling an oversized doghouse sheltered the engine and generator that furnished the necessary power.

Duggy's fingers glided caressing over the small motorcycle engine. He had spotted it among the rafters in the Samson's barn, where it had been collecting rust and dirt since Arnold Sampson's bad smashup. A week's work on the Samson farm had earned possession of it, and another week of effort had reconditioned it.

Duggy gave a few slow shoves on the kick-starter that projected through the side of his "powerhouse" then, putting his weight on it, he pushed sharply. The little engine respond with a roar, and its owner grinned happily.

Next, Duggy swung the half roof back on its hinges and watched the generators spend; one to charge the storage battery, the other, rewound on the skeleton of an auto generator, to operate the 800 V power supply. He connected the voltmeter and slowly adjusted the throttle until it read exactly 800. That meant everything would run as it should.

Again he entered the single room shack, formerly an emergency camp and storehouse for the forest rangers. When they abandoned the building, Mr. Snow, well aware of the covetous glances his son had long been casting at it, arranged to lease it. Located on the highest hill for miles around, it offered a perfect setting for short-wave radio transmission.

Duggy would never forget his feelings when he first took possession. Nearly a year had passed since then, and the passing months had brought many changes in his layout – the powerhouse, with its motorcycle engine and generators; installation of new equipment; a better receiver. Someday, Duggy told himself, he would put in a phone outfit; but he was in no hurry, for a telegraph key held a fascination for him that he did not find in a "mike."

Even if your conversation wasn't terribly important, at least it took a real operator to know enough to use code and make sense out of the hash a lot of the boys sent. Most of the phone users forgot the 13 words a minute they had to learn in order to get their licenses. He guessed he'd stick to his key for a while; one could work more distant stations with code signals, anyway.

He threw the switch on the front of the receiver, and the small green lens in the panel glowed like a cat's-eye in the dark corridor.

Clamping the "cans" on his ears, Duggy turned the dial slowly over the band. Not much of anything was coming through as yet. Some locals, of course – up to about fifteen hundred miles; but for real distance he knew that he must wait until evening.

He glanced at the alarm clock clacking noisily on the shelf at the head of his bunk. Five o'clock already? Time to turn in for some rest if he wanted to do any DX (long-distance) signaling later on that night, without going to sleep at the controls.

Turning off the set he stepped over to the powerhouse and shut down the engine. It had warmed enough to start easily later. Duggy closed the roof, and before entering the shack glanced at the sky. Of course, atmospheric conditions determined the distance he could send and receive; but if nature did her part, he might reach the far corners of the earth.

He crawled into his bunk and in minutes was sound asleep.

DISTANCE SIGNALING

The clamoring jangle of the alarm clock woke Duggy with a jolt. Rolling back the covers he tumbled reluctantly out of the warm bed.

Soon the glow of an oil lamp lighted the little room, and the chill gradually was replaced by a cozy warmth as the fire got underway. Ducking into his sweater, Duggy grabbed his flashlight and slipped outside to start the engine.

Above him gray clouds scurried by in a strong wind, and once Duggy thought he felt a drop of rain.

Turning a beam of light on the little two cylinder engine, he opened the gas line to the tank and gave half a turn to the carburetor adjustment. Then shoving the kick-starter into position, he put all his weight into a sudden snap that jerked the engine immediately into life. H-m-m. Maybe he'd better put the muffler on, for often the DX signals didn't come in with any too much strength.

He was proud of that muffler. It was nothing but 30 feet of old drainpipe, punched full of holes and laid three feet underground to an opening down the side of the hill, but it worked to perfection.

As he turned to enter the shack, he stopped short. Was the motor missing? For a moment he listened intently. No, it was purring like a kitten. Must have been his imagination.

Duggy entered the dimly-lit room. Inside, the motor was scarcely audible. The meter on the transmitter indicated a correct generator voltage. Sure, that motor was running all right.

Slipping the "cans" on his ears, he twisted the controls. In spite of the fact that the air crackled with electricity, some signals were getting through. He turned the dial very slowly, looking for a "CQ" ("calling any station").

Ah! He moved the dial ever so slightly and a flute like signal pierced the static: "CQ CQ CQ DE W4EAD W4EAD W4EAD K" ("Calling any station, from station W4EAD. Go ahead.")

Excitedly Duggy pushed the switch on his transmitter, and two seconds after the "K" invited him to go ahead, his fingers reached out for the key and tapped at: "W4EAD W4EAD W4EAD." He clasped the stuttering instrument more firmly, and the tubes in the little rig glowed as they tried with all their might to push the signal through the black night. "W4EAD DE W9PFR W9PFR W9PFR K."

Turning the receiver up, Duggy waited a moment. There it was, that powerful signal again – calling him.

"W9PFR W9PFR" came the bird-like note. "W9PFR DE W4EAD OKAY OLD MAN TNX FER THE CALL UR SIGS NOT SO LOUD HERE BUT GESS I CAN PULL YOU THROUGH OKAY WAT SA?"

Duggy grinned happily. This was not the first fourth District station he had ever worked, but communicating with an operator 2000 miles away was always rather special, even if his signals were not getting through very well.

He pushed the switch and clicked off dots and dashes, talking in a language of code combinations and abbreviations that would've been Greek to anyone unfamiliar with them. They talked about the "WX" (weather); about the "QRN" (static); what power they used in their rigs; their type of "sky wires"; what "DX" (distant stations) they had heard. When they signed off, they promised to "QSL" (to send each other their cards to put on their walls).

Duggy beamed with satisfaction as he made the entry in his logbook at the end of the conversation. Boy, that fellow could operate!

A STARTLING MESSAGE

Duggy yawned sleepily but decided to take one more turn around the dial to see if he could hear anymore DX before going to bed again. Back and forth he turned the dial, but the QRN was growing worse; he could see occasional flashes of lightning through the window and hear the roll of distant thunder. No radio weather, this.

Now the band was dead; not a signal coming through. He plugged in another coil; maybe conditions were more favorable on a different frequency band. H-m-m not much better; lots of static, but a few stations showed up. He turned the dial another notch, and a barely audible voice wavered uncertainly in his phones.

Setting the controls to squeeze the utmost out of his receiver, Duggy strained to distinguish the words which sputtered more regularly now. A sudden gust of wind shook the cabin and pelted the window with raindrops. He'd better turn the outfit off and go to bed. But first he must make out what this unexpected message was.

Up and down the voice-tones vibrated, rising and falling until a few words became distinguishable above the crash of thunder and the roar of the wind.

"– – In plane 13 calling – – hello Cosmo City – –"

Silence for a moment.

"– – Tilford in – – plane – – hello –"

Again the message faded while Duggy listened so intently he thought his eardrums must burst. A dizzy humming filled his head, and his fingers prickled with cramps on the tuning knob; but he hardly noticed the discomfort. Tilford in plane 13 – Tubby's dad!

The rain pelted in sheets against the roof and down the window. Then he could hear the voice calling again.

"– – aground on Thunder Mountain – I think – couple of ribs and a leg – – mail okay – south of Lookout point as – –"

Quickly Duggy twisted his dial to the airport's frequency, but he heard no answering message. The airport could not be in communication with the grounded plane. That meant only one thing – Tilford's transmitter must be so far off it's assigned frequency that the airport was not picking it up. No one else was likely to get it, either. He must do something! Instinctively his hand reached over and snapped on the switch controlling the transmitter. The tubes responded heartily with the bright orange glow. His fingers grasped the key.

Always, as he sent, he listened to his signal on the monitor, a small and insensitive receiver for checking one's own transmitter. This time as he pressed the key he heard no sound. His practiced eyes glanced over his set. H-m-m. The switches were on all right; three glowing red bull's-eye in a neat vertical row proved that. Hastily he rose and threw the meter into the generator circuit. It read zero. Dead! No high-voltage for the final amplifier!

Duggy grabbed his flashlight, crammed a cap on his head, and dashed for the powerhouse. His heart sank as he turned the corner of the cabin. No sound came from the engine. He had been so intent on his receiver that he hadn't heard the motor quit, and here he was, miles from anybody – no power – and Tubby's dad needing immediate aid.

A sharp flash of lightning split the heavens, revealing the long, wooded slope, with the diminutive shack perched on its rocky summit and the two antenna masts reaching upward to the scudding clouds. Then all was darker than before.

Anxiously Duggy twisted the kick-starter into position, placed his foot on it, and gave a sudden shove. But the starter would not budge. He tried again. The little engine remain locked as tightly as if it had been welded.

A DESPERATE SITUATION

Something had gone wrong inside the motor. No time to monkey with it now. Probably would take a day at least to pull it down and put it in order, even if the new parts were at hand.

Duggy straightened and for a brief moment stood looking out into the blackness. How could he get help in the shortest time? Walking would take hours, especially in this weather.

His heart heavy in his breast, he returned to the shack. Wiping his dripping face on a still wetter sleeve, he slung his sodden cap on a nail. A stream of water trickled from its visor to the floor.

Suddenly his despairing gaze lighted on the auto radio his father had left with him to be fixed, and an idea donned in his fertile brain. He smiled grimly as he hastily collected his tools and started to work. What he needed was the vibrator transformer unit that would convert the six volts from the car storage battery into the two-hundred volts for the radio circuit.

Half an hour's work saw the unit completely removed and lying on the table. After putting the rest of the radio back on the shelf, Duggy disconnected a storage battery from the rear of the transmitter and dragged it forth. He clipped the wires from the battery to the input terminals on the vibrator, and held his breath. A low buzzing sound, like a swarm of bees, filled the room, and the voltmeter he held on the output registered 200. Thank goodness! At least that part worked; now to hook it up to the rig. With only one storage battery, Duggy realized that in his equipment he must remove the final power tube and make the minor changes in wiring necessary to use only the low-power part of the transmitter.

At last, with everything completed, he turned on all the switches and hopefully pressed the key. Under the load of the transmitter, the voltage from the vibrator dropped from 200 to 150; but the feeble peep in the monitor was music to his ears. Holy smoke, thought Duggy, his eyes glued to the meter on the panel, a hundred and fifty volts at thirty-five thousandths of an ampere! Yes, that tube was

drawing only 35 mils and the coupling was as tight as he could get it!

His fingers repeatedly tapped out the emergency call, the amateurs SOS – "QRR QRR QRR QRR DE W9PFR W9PFR QRR QRR QRR DE W9PFR PLEASE COME IN ANY STATION URGENT QRR QRR DE W9PFR K"

At the end of the transmission he flipped the switch and carefully tuned the dial of his receiver to pick up an answer. The storm rode all around him and all its fury now and made it almost impossible to hear anything at all.

Slowly, painstakingly, he worked the dial. Here was a signal – faint as a whisper. He hung there for a moment, listening. Between crashes of static his experienced ear pieced together enough letters to know that it was not for him.

Over the rest of the dial, no answer came. With a sigh he turned on the transmitter and repeated his call for aid. Again he combed the air for reply, but still no one heard him.

Feeling as if hours had already passed, Duggy ranged the dial once more. His thoughts were far up on a mountainside with the man who had so cheerily announced that the mail was safe and that he was all right except for a couple smashed ribs and a broken leg. Duggy wondered how bad the crash had been; how it happened; if Tubby's father had managed by now to drag himself to shelter, or if he lay helpless in the wreck, unable to move.

Then through a momentary lull in the storm he heard a signal, so weak he almost thought he imagined it. Straining his ears he leaned forward. Yes, it was calling him; coming in one moment and fading out the next. “W9PFR – W – PF – W9P – DE K6X – K – IL – – K6X I – K6XIL K"

Whew, thought Duggy, to expect help from a K6, or sixth-district station, was a little too much! His five watts were certainly stepping far out on a night like this! Yet there seemed very little a fellow in the Hawaiian Islands could do. His fingers sought the key to explain: “TNX FER THE CALL OLD MAN I HAVE EMERGENCY MSG BUT THINK YOU ARE TO FAR AWAY TO DO ANI GUD WAT SAY?"

"OK, OK," came the feeble reply, "I HV SKED WID CALIFORNIA IN A FEW MINS IF YOU LIKE WILL RELAY IT BACK TO USA FER U HW ABT IT QRN BAD BETTER QSZ SO WON'T MISS ANY OF IT"

Duggy’s fingers flashed the information over the miles of turbulent, black ocean, sending each word twice, as the K-6 had requested with the letters “QSZ." When he had finished, he turned back to the receiver with the eagerness of renewed hope. If his code had only gone through!

Again the peeping treble sounded in his ears, the slimmest of threads linking Duggy, huddled anxiously over his dimly lit operating table, with an unknown friend thousands of miles away on a tiny dot of land in the mighty sea.

"OK, OK," assured the sender. "ILL GET MSG THRU TO CALIFORNIA IN FEW MINS GOOD NIGHT SEE YOU C U AGN SUMTIME."

"OK TNX G N," said Duggy. He sighed, his heart resuming its normal beat. As he turned off the switches, he glanced at the clock. It had taken an hour and a half to complete his work. Had he been quick enough to be of any real help? He rose and stood for a minute gazing through the streaming windowpane. The storm continued to swirl about the Knob as if concentrating all its forces in an attempt to get revenge. Duggy slipped wearily into his bunk.

A TRIBUTE TO DUGGY’S HOBBY

Hardly a moment later, it seemed, Duggy was awakened by a loud banging on the cabin door.

“Hey, you! Open up!"

"What are you doing in bed this time o’ day?"

Duggy grinned; he'd know those voices anywhere. "Okay, you guys, just keep your shirts on."

"Come out of your hole an’ tell us what it's like to be famous!"

Duggy scrambled up, grabed his clothes, and unbolted the door. "What's the matter with you guys," he asked jokingly, "coming around here in the middle of the night and waking people up?"

"Middle of the night!" snorted Tubby. "It's almost 10 o'clock. How do you get this way – making headlines all by yourself on top of the mountain?"

Sam shoved a paper in front of Duggy. "Boy, get a load of this. S’pose now you won't even speak to ordinary birds like us."

Duggy took the paper and read slowly, unbelievingly: "BOY RADIO OPERATOR RESCUES PILOT OF CRASHED PLANE."

He stood there, seemingly unable to grasp it, until Tubby came to his aid. "If you'd only read it, you'd see how your radio message was picked up in the Hawaiian Islands and relayed to San Francisco, and how the operator there got in touch with airline officials who telephoned a little village up in the

mountains. Then it took a dozen men from the village two hours to find the wreck."

"Gee!" breathed Duggy. "Is your dad all right, Tubby?"

"Dad's in fine shape. Called up over long distance from the hospital this morning he said if it wasn't for a couple of broken bones, he'd walk all the way back just to shake hands with you."

"How they find him in the dark?"

"Flares," answered Sam. "He was burning his last flare when they spotted the plane. When they got to him, he was unconscious."

"Yeah," added Tubby, "he said he fought to stay awake until the last flare was lit; after that it didn't matter. He couldn't tell for sure whether the radio was any good or not; so he just kept talking into it in case."

Almost speechless with joy, Duggy could only gasp, "Boy, I'm glad we pulled it off! I never really believed it was going to work though. What luck!"

"Luck, my eye!" repeated Sam.

Tubby stepped closer and threw an arm around his friend's shoulders. "Say, Duggy," the stout boy said seriously, "I want you to know how grateful Dad and Mother and I are for what you did. I know dad wants me to learn something about radio too. I was thinking perhaps I could just sort of hang around and see what you do, and maybe pick it up a little. Dad says if I want to be a pilot, I can't know too much about radio."

"Sure, Tubby. You know that goes without asking. First I'll teach you all I know, and then we'll both go on from there."

"I guess radio's just like football," stated Tubby thoughtfully; "you've got to use your brains to be good at either one."

[Historical notes: US Air Mail and car radios don't exactly overlap in the way this story describes so I'm curious exactly when this story appeared in the magazine - my best guess is 1929 - 1935; obviously some literary license was used so it could have been later. I can not find an archive of "The Open Road for Boys" magazine but individual copies appear on eBay. The first car radios came out in 1922 and cost $200 (~$2,700.00 today)[4] - Motorola started making them in 1930, and sold them for between $110 and $130 (2014: ~$1,800)[5]. In 1930 there were only 34,000 automobile radio installations.[6]

Air Mail was at first an expensive, dangerous novelty starting in 1911; regular service began around 1918 and continued to 1926 on government owned planes[7]; 1922 was the first year that a pilot did not die delivering Air Mail. By 1925 (Kelly Act of Congress) regular airlines were running the mail - then a scandal hit concerning Air Mail postal rates (1927?). In 1933 the US Army Air Corp started delivering Air Mail - that turned out to be another disaster; for this reason I believe that the story was written before 1933 unless some literary license was taken. Someone who knows more about this will correct me if I'm wrong, (and someone who knows less about this will correct me if I'm right).

QRR was an early amateur-radio distress signal, but was later changed to QRRR to avoid confusion with QRR. QRR was first used for amateur messages along the Pennsylvania Railroad in the (frequent) event that the railroad landlines went down. QRR[8] and QRRR[9] are now obsolete[10]; I can't find any time line about their usage but I suspect QRR became obsolete by the late 1920s although there are reports of QRRR used as late as the 1950s.

The first amateur radio licenses were issued by the Department of Commerce prior to 1920 (I have an article in preparation for a future Newsletter about licensee 4AA who lived in Kernersville, including a copy of his first license #001.) Call sign prefixes began in 1928[11]. By 1932, the Federal Radio Commission had licensed about thirty thousand amateur radio stations, about two thousand ship radios, and about one thousand fixed-point land radio stations. The number of licensed radio broadcasting stations (all of which were AM stations) was 625.[12]

W9PFR is not currently assigned today. Pacific territories of the US had K6 prefixes stating in 1928 so that sets the earliest date the story could have been written; continental US stations did not have K-series calls until 1947.[13] Until 1945 the W0 call area did not exist, the 9th included all of the states in the current 10th call area and the FCC was running out of W9 calls before WWII; in the early 1930s I suspect that W9PFR was not assigned. There are a number of things I could run down a little more thoroughly but I'm out of time and why deprive you of the opportunity to do your own research? Hope you enjoyed the story. Don, WS4NC]

FCC "PAPERLESS" AMATEUR RADIO LICENSE POLICY NOW IN EFFECT

By Karl, W4CHX
ARRL NC Section Manager

As of February 17th, the FCC no longer routinely issues paper license documents to Amateur Radio applicants and licensees. For further information, see http://www.arrl.org/news/fcc-paperless-amateur-radio-license-policy-now-in-effect

[4] http://www.dollartimes.com/calculators/inflation.htm
[5] Wikipedia: Vehicle Audio
[6] National Radio News, Vol. 6, No. 4 Oct-Nov 1934. "The Opportunities in the Field of Automobile Radio", by James G. Hollingswsorh, Jr.
[7] Wikipedia: Airmails of the United States
[8] I would welcome any reference to when QRR became the "land distress" call. The original was CQD, then SOS which became famous from the Titanic sinking in 1912. For a short history see footnotes 9 and 10.
[9] "QRRR--New Emergency-Call Designation", August, 1948 QST, page 60, Operating News
[10] 1969 ARRL Operating Manual, section by Louise Ramsey Moreau, WB6BBO/W3WRE
[11] An Overview of Amateur Callsigns, Past and Present, by Phil Sager, WB4FDT and Rick Palm, K1CE, QST, May, 1994 .
[12] Wikipedia: Federal Radio Commission
[13] Sager and Palm, pg. 56

FCC Exams Report
and FARC Membership

by, *Dale Mierisch, WB9SZL*
VEC Session Manager

Allow me to offer all of April test-takers hearty congratulations on your Amateur License's and Upgrades:

GARRETT R ZEDLAR KM4FUJ
CHARLES R SMALL KM4IVY
KEVIN R SMALL KM4KEC
JAMES R MARLER KM4HUZ
JONATHAN J SHERRILL KM4KED

I look forward to chatting with each of you on the air. Please complete the information on the FARC membership form, if you have not already done so, for a free Membership to the Forsyth Amateur Radio Club (FARC).

For non-FARC members, if you took an FCC exam, either for a new license or an upgrade, you should have an attachment to your email for a free membership in FARC. Mark the form "New Ham-TestDate" Once the form is completed, please scan and email to me.

Exams are offered before the FARC and start at 6:15 PM in room 109 at the Red Cross building. Pre-registration is strongly suggested at info <at> w4nc <dot> com. We try to accommodate walk-ins if we can. Our biggest challenge continues to be convincing Upgrade candidates to bring a **copy** of their license to exam sessions. A copy of your license must accompany the application to the FCC. Any missing copy unfortunately delays the entire license process for all candidates. Pre-registration is strongly suggested at info <at> w4nc <dot> com. We try to accommodate walk-ins if we can. Bring your original license, if you have one, two forms of ID, $12.00, and for License Upgrades, please assure:

1. That you bring your original license for viewing ·AND

2. **That you provide a "Required" copy of your license and successful completion forms (CSCE's - if any) to accompany your FCC Upgrade application.** Please try to have those copies with you upon arrival.

Exams are held at the general club meeting on second Mondays at the Red Cross starting at 6:20 PM.

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. Any thing 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

Important News from the NC ARRL Section Newsletter

by Karl Bowman DVM, W4CHX
ARRL North Carolina Section Manager
w4chx@arrl.org

HR 1301 AMATEUR RADIO PARITY ACT OF 2015

The Amateur Radio Parity Act of 2015 – known as HR1301 – was introduced in the US House of Representatives on March 4th. The Bill would require the FCC to amend its Part 97 Amateur Service rules to apply the three-part test of the PRB-1 federal pre-emption policy to include homeowners' association regulations and deed restrictions, often referred to as "covenants, conditions, and restrictions" or CC&Rs. HR 1301 was introduced by Representative Adam Kinzinger (R-IL). As of April 30th, HR 1301 has 50 co-sponsors, including Representative David Price (D-NC-4). ARRL members are urged to contact their US House members and ask them to sign on to the bill as a co-sponsor. For further information, see http://www.arrl.org/hr-1301

On HR 1301 Amateur Radio Parity Act of 2015, an interview with Bill Morine, N2COP and Karl Bowman, W4CHX during RARSfest, see:
http://arvideonews.com/hrn/HRN_Episode_0197.html

Also: On the Rockingham City Council passing new rules overseeing telecommunications, including amateur radio towers, see:
http://www.yourdailyjournal.com/news/localnews1/152925550/City-council-approves-new-telecom-rules

Please note: the NC Section and Roanoke Division leaders have just become aware of these new rules and we are discussing actions that may be needed.

FCC PROPOSES TO MAKE PAST AMATEUR RADIO ADDRESS INFORMATION PRIVATE

On April 16th, with an update on April 17th, it was announced that the FCC was seeking comments on a Notice of Proposed Rule Making that would restrict routine public inspection of an Amateur Radio licensee's address history. The FCC said the action was being taken in an effort to enhance the privacy of individual licensees. The change would not affect public access to a licensee's current address information. For further information, including the comment period, see http://www.arrl.org/news/fcc-proposes-to-make-past-amateur-radio-address-information-private

FCC PROPOSES TO PERMIT AMATEUR ACCESS TO 2200 AND 630 METERS

On April 28th, it was announced that amateur radio would likely gain access to two (2) new bands on a secondary basis: the LF band, 135.7 to 137.8 kHz (2200 meters); and, the MF band, 472 to 479 kHz (630 meters). No amateur radio operations will be permitted in either band until the FCC determines, on the basis of comments, the specific Part 97 rules needed to permit operation in the new bands. For further information on the proposed permits, related matters, and comment period, see http://www.arrl.org/news/fcc-proposes-to-permit-amateur-access-to-2200-and-630-meters

As this announcement was being distributed, an email communication was received from Ralph Wallio, Jr, W0RPK with an update on 630m activity in the Roanoke Division. Ralph W0RPK is aware of these details, because he has participated in the ARRL WD2XSH 630m Experiment since 2006. In his email, the latest WD2XSH status report was included. Fritz Raab, W1FR, ARRL 630m Experiment Coordinator, prepared the report with contributions from John Langridge, KB5NJD and Warren Ziegler, Jr, K2ORS; and, it covered the period, December 1, 2014 through February 28, 2015. Only the NC operations are discussed hereafter. The ARRL experimental station, WD2XSH/10, was operated by Joe “Dex” McIntyre, W4DEX of Stanfield; it was very active beginning in 2006. No individual 630m experimental stations are licensed in North Carolina. As an aside, Ralph W0RPK commented that, “my ARRL experimental station, WD2XSH/34 was very active in Iowa starting in 2009 before our move to Greenville in 2013. I am equipped and intend to quickly go-on-the-air here in Greenville if and when 630m is approved as a new Ham band.” For further information on the ARRL 600 Meter Experimental Group and their recommendations, see http://www.arrl.org/news/arrl-600-meter-experiment-coordinator-recommends-renewing-experimental-license and http://www.500kc.com/ Thanks to Ralph Wallio, W0RPK, and Fritz Raab, W1FR, ARRL 630m Experiment Coordinator, for providing this information!

May Program

By Jim W4UX

Monday, 11 May: Program will be our new Yaesu Vertex Repeater by **Dale, WB9SZL**. I hope to see everyone at the meetings, normally starting at 7:30, Red Cross Building, 690 Coliseum Drive, Winston-Salem. Be sure to keep in touch with our website as meeting times or programs may be altered: http://www.w4nc.com

Don't forget to put the **Saturday, 13 June Classic Hamfest** on your calendar!!

More on HR-1301
Ham Radio Parity Act

by JIM N2ZZ
ARRL Director
Roanoke Division

Today, I would like to provide an update regarding our progress on HR-1301, the Amateur Radio Parity Act of 2015. As you remember, it is a bill that would direct the FCC to extend PRB-1's reasonable accommodation of Amateur Radio antenna systems to those subject to CC&R's (Covenants, Conditions and Restrictions) in order to provide uniform support for the strong federal interest in Amateur Radio Communications.

After a strong showing of the initial bill in 2014 with almost 70 cosponsors, we are rapidly gaining support in 2015. According to the Thomas website, http://thomas.loc.gov/home/thomas.php (Go to the search engine in the upper middle section of the page, Select "Bill Number" and enter HR-1301), we now have 44 cosponsors. In the Roanoke Division, we have 33 congressional districts. NC has 13, VA has 11, SC has 6 and WV has 3. Currently signed on as cosponsors in our division are: Bob Goodlatte [VA-6], H. Morgan Griffith, [VA-9], and David E. Price [NC-4]. So, we are currently at ten percent co-sponsorship.

I have received a number of congressional response letters forwarded to me by members. As you might expect, I have seen those that offer full support, no support and those that are completely non-committal. The ARRL is pushing for co-sponsorship, as this confirms that the Representative has committed to the bill, and we know that we have their support. Additionally, those Representatives that are "on the fence" may very well commit when they see another Representative that they respect has signed on.

The ARRL has joined the 21st century in regards to Grassroots support. Rather than having a handful of ARRL staff/officials driving legislation, the new paradigm is that of the grassroots movement. ARRL members are now being mobilized within their congressional districts as constituents of elected government officials. These officials now know who we are, what we do, and that we vote!

There may be some that still wonder if it is appropriate for non-profit groups to influence legislation. Yes it is. We may not offer support for an individual candidate for election, however. David Sumner K1ZZ, CEO offers information on this matter: http://www.arrl.org/political-campaigns-and-the-arrl .

The ARRL, staff, directors, and elected officers have made numerous visits to Capitol Hill to visit representatives, and solicit their co-sponsorship.

This has been very successful, but we have a long way to go. HR-1301 is well on its way, but we are working very hard on finding a sponsor and co-sponsor in the Senate. Talks are proceeding, and we hope to have an announcement soon.

Individually, you may not be subject to CC&R's, but many are. Those that are affected by CC&R's are increasing exponentially. In 1970, there were approximately 2.1 million residents affected by CC&R's. By 2011, 62.3 million were affected; and that was four years ago! Whether or not you are currently affected by CC&R's, we ask that you support this effort on behalf of all amateur radio operators!

So what can you do, as an individual member? The answer is that a few minutes you spend in assisting the ARRL is highly valuable. Many already know that everything you need is available on the ARRL website: www.arrl.org/hr-1301/ , including who your elected officials are, and their contact information. I ask that the very minimum that you do is to send your Representative an e-mail via their website. Go to: http://www.house.gov/ , go to the upper right of the webpage and enter your zip code. This should bring you to a map. Click on your Representative's name, which will take you to their website. Go to their "Contact Me" link and find the way to e-mail them. Cut and Paste the sample letter from www.arrl.org/hr-1301/ into the e-mail box, personalize as necessary, and hit "Send". That's the minimum I ask you to do. NUMBERS are important!

Should you wish to do so, on the www.arrl.org/hr-1301 website, there are instructions as to how you can mail or e-mail a SIGNED written letter to n1nd@arrl.org for personal delivery to your Representative. Having those letters in hand by ARRL officials visiting the Representatives show that they are indeed representing constituents within their district.

You may already know that letters that are sent via U.S. mail directly to your Representatives are quarantined in another facility, and have a significant delay in delivery.

This brings us to the South Carolina Section Convention, the Upstate Hamfest http://www.blueridgears.org/brars/upstate-hamfest/ will be held in Spartanburg, South Carolina next Saturday, May 2nd. Please visit the ARRL booth, as the ARRL has provided a letter writing program in which you only need to supply your call, and a letter to your Representative will be generated for you to sign. The letter will be sent by your local ARRL team to ARRL HQ for personal delivery to your Representative. No strings attached! This program has successfully been used at the Charlotte and the Raleigh Hamfests with excellent results.

Due to hospital call commitments, I will be unable to attend the Upstate Hamfest, but Vice Director Bill Morine N2COP and SC Section Manager Marc Tarplee N4UFP will be representing the ARRL at this event. I will be attending Dayton, and for those that are planning on going, I hope to see you there!

Finally, during the RARSFest held in Raleigh, NC, I would like to thank Vice Director Bill Morine and NC Section Manager Karl Bowman for their appearance on www.HamRadioNow.tv HR-1301 segment with Gary Pearce KN4AQ. I unfortunately had an early plane to catch, and missed the interview. Both Bill and Karl did an exemplary job, and I invite you to watch the segment:
http://arvideonews.com/hrn/HRN_Episode_0197.html
Although there is much more to report, that's all for now! Thanks again for all your support!

More Wayback Machine– Local TV Broadcasting History

Reese Felts, KB4FOX-SK, was a past president of FARC and was generous with his time, money and support for the club. He was the primary mover behind getting FARC its IRS 501c3 status and he bought for us the nice generator that we use at Field Day and for emergencies at the Red Cross. (Source of the following information[14])

A "People in Broadcasting" Spotlight appeared in the May 25, 1964 "Sponsor", a Trade Publication that billed itself as "The National Weekly of TV and Radio Advertising".[15]

Sponsor: "Charles Noell, William H. Brown and Reese Felts promoted to assistant sales manager, manager of the radio program department and promotion manager of radio and television.,

[14] http://americanradiohistory.com/index.htm

[15] This issue of the magazine featured articles on "Radio Rebounds with Vigor from TV Heyday", "Bottle vs. Can Battle Rages on Beer Front", "Geritol Charges Maintained by FTC", and numerous rants by TV stations about the proliferation of Cable TV [then CATV] and how that would be the end of free broadcast TV.

respectively, of WSJS-TV Winston-Salem, N. C. Noell, a member of the television sales staff since 1962, was previously in the advertising department of the Journal and Sentinel. Brown, formerly sales manager of WSIC Radio Statesville, N. C., joined WSJS-TV as an announcer in 1963. **Felts** has been a member of the WSJS-TV production staff since 1952."

Minutes of the Forsyth Amateur Radio Club Meeting— 13 April 2015

By Terry Brown, AK4D,
Secretary, Forsyth Amateur Radio Club

1. **Call to Order and Welcome**: Meeting was called to order by President Jerry Minor, K4GW, at 1936 hours. He welcomed FARC members and visitors to the meeting, approximately 45 total. Each person in the room introduced themselves stating their name and callsign.

2. **Announcements/Club Business**:

a. **Treasurers Report**: **Treasurer Henry Heidtmann, W2DZO**, stated that the club balance was $4166.75. The balance included many of the repair costs and replacements for the Sauratown Repeater. He stated that the annual club insurance policy bill was still to be paid.

b. **Simplex Sunday's**: **Henry**, **W2DZO** has received a postcard from WF5TX requesting that club members participate in simplex VHF communications on Sunday afternoons on 146.52 MHz.

c. **Membership Renewals**: **Terry Brown**, **AK4D** updated the numbers on club renewals. Not counting family members nor life members, for the 2015 calendar year, there are a total of 103 members. Broken down, there are 37 regular memberships, 37 senior memberships, and 29 complimentary memberships given to local amateurs who either get or upgrade their license at FARC club VE test sessions.

d. **Yaesu Repeater Program**: **Dale Mierisch, WB9SZL**, stated that Yaesu has approved FARC's application for a price discounted System Fusion repeater, a purchase previously approved by a vote of FARC members and documented on the 9 March 2015 club minutes. He indicated that the repeater was initially scheduled to be shipped by June, but he already had received it and would be working with it this summer.

e. **Repeater Status**: **Dale Mierisch**, **WB9SZL** stated that all three club repeaters were operational and that the echolink nodes were operational on the 146.640 and the 145.470 repeaters. The upgrade work at the Sauratown Mountain repeater is in progress.

f. **VE Test Session Report**: **Dale Mierisch, WB9SZL**, thanked the VE's who helped with the test session prior to the club meeting, **John Kippee-K1PPE** and **Mike Adkins-N4VE**. Dale stated that the end result of testing was five passes, two non-pass. There were two new Technician licenses (**Kevin R. Small-KM4KEC** and **Jonathan J. Sherrill-KM4KED**) and three got their General license (**Garrett R. Zedlar-KM4FUJ**, **Charles R. Small-KM4IVY** and **James R. Marler-KM4HUZ**).

g. **Arduino Class**: **Jerry Minor**, **W4GW** reminded everyone about the Arduino classes, everyone welcome.

h. ARES Report: **Jim Mansfield, WA4NOT**, thanked everyone who helped in the Pilot Mountain Payback half and full marathon event on 28 March. He stated that there were 72 runners in the event, 49 for the half-marathon and 23 in the full marathon. Jim also stated that event workers were not able to cover all aid stations and thanked the hams that had to do dual jobs of communications and also helping runners. Jim reminded everyone of the ARES net each Thursday night at 8:30 on the 145.470 repeater. He also stated that **Eric Bowen, WK4CW** had attended an emergency communication exercise on 9 April at the NC Emergency Management Office in Forsyth County.

i. **Next FARC Business Meeting: Jerry Minor**, **W4GW** stated that the next FARC business meeting will be on Monday, 20 April at Hams Restaurant, Thruway Shopping Center at 1930 hours in the side room.

j. Classic Hamfest: **David Shoaf, KC4X** reminded everyone of the FARC Classic Hamfest scheduled for 13 June at Summit School. He was welcoming suggestions on how to make the hamfest better, would be contacting folks to help but asked anyone who wanted to help to contact him. He discussed having demos on JT65 and PSK31 digital modes.

k. Field Day: **Doc Holliday, WB4QIZ** talked about last year's Field Day where FARC came in second place in the 9A category. He welcomed any suggestions on how to improve to first place this year. A discussion on extra point items followed. FARC Field Day activities this year on 27-28 June will be at Hobby Park.

l. Piedmont Triad Users Group: **Steve Patterson**, **WA3RTC** talked about an email he received from the Piedmont Triad Users Group on an upcoming high altitude balloon launch where tracking was needed. He asked anyone who was interested in the tracking effort to contact him.

m. Makers Fare: **Bob Gusek**, **NC4AG** reminded everyone about the Burlington Makers Fare this year scheduled for 25 April.

n. Bus Trip to Dayton Hamfest: **Bill Lundy, NC4BL**, from Mount Airy stated that the club there has a bus trip scheduled to travel to the Dayton Hamfest, forty signed up, but there were still two empty seats!! Plans are to leave on Thursday, 14 May and return on Sunday, 17 May. Folks making the trip there will be staying at the Dayton University lodging.

3. Main Presentation: **Nathan Jackson, K4NWJ**, educated meeting attendees on DMR-MARC or Digital Mobile Radio set up by the Motorola Amateur Radio Club. DMR is an open and published international digital radio standard that uses two slot TDMA communications. DMR is a recent standard, similar to D-STAR and Yaesu System Fusion standards. He demonstrated live communications with an amateur radio operator near Ahoskie, NC.

4. Meeting Adjourned: Motion to adjourn the meeting was made, seconded, and agreed to approximately 2059 hours.

5. Meeting Attendees: Names of the meeting attendees who are listed on the sign-in sheet or otherwise recognized follow:

Don Edwards-WS4NC; Judson David-KG4OHQ; James Carlen; Neal Pruitt-WD4LSS; Geoff Rudy-KK4MOV; Jim Marler-KM4HUZ; Kevin Small; Charles (Chuck) Small-KM4IVY; Brian Kuebert-N4UEZ; Bill Starkey-N4WWS; David Ramsey-KJ4OIL; Steve Patterson-WA3RTC; Van Key-KC4WSK; Bob Gusek-NC4RG; David Shoaf-KC4X; Scott Shoaf; Terry Brown-AK4D; Steven Mierisch-KG4JWU; John Kippee-K1PPE; Dale Mierisch-WB9SZL; Jerry Minor-K4GW; Tony Poindexter-KD4MMQ; Harold Richardson-N4HER; David McDonald-N5WNB; Jim Atkins-W4UX; David Peterson-KK4GAF; Dave Lambe-K4ICK; Doc Holliday-WB4QIZ; Randy Tompson-NC4RT; Les Jongberg-KJ4JYZ; Jim Mansfield-WA4NOT; Raja Chatterjee-KB6MTH; Troy Skelton; Jerry Minor-K4GW and Henry Heidtmann-W2DZO.

Minutes of the Forsyth Amateur Radio Club Business Meeting—20 April 2015

By Terry Brown (AK4D)
Secretary, Forsyth Amateur Radio Club

1. Attendees: Twelve attendees: **Jerry Minor-K4GW, Terry Brown-AK4D, Don Edwards-WS4NC, John Kippee-N0KTY, Jim Atkins-W4UX, Harold Richardson-N4HER, Gene Bowman-WB4MSG, Steven Mierisch-KG4GWU, Dale Mierisch-WB9SZL, David Shoaf-KC4X, Doc Holliday-WB4QIZ, and Jeff Rudy-KK4MOV.**
2. Call to Order: The meeting, in the glass walled side room at Ham's Restaurant, 414 South Stratford Road, Winston-Salem, was called to order by **President Jerry Minor, W4GW** at 1940 hours.
3. Meeting Topics:

a. Treasurers Report: **Henry Heidtmann, W2DZO**, was not at the meeting but had sent a message stating that the club balance was approximately the same as reported at the previous weeks main FARC meeting of $4166.75.

b. Future Meeting Topics: A discussion was held on how to improve future club meetings and also on the meeting topics. Main point was to limit presentations to about 30-35 minutes, use the wireless mike for guests, get ideas from club members on desired topics and to get an assistant to the FARC Vice-President to act as program coordinator. Any potential future meeting topics may be on Raspberry Pi, but the May program will be on repeaters with the presentation by **Dale Mierisch, WB9SZL**.

c. Field Day Preparation: Hobby Park has been reserved for Field Day activities on 27-28 June. **Doc Holliday**, **WB4QIZ** talked about how to get the club to a first place finish by getting extra points in addition to the on-the-air contact points. Discussed were power modes, visits from officials, GOTA station, youth participation, a video on ham radio, satellite contacts, message handling and many of the other point getting items listed in the ARRL rules on Field Day. Field Day security was discussed and who would be staying overnight on Saturday night at Hobby Park. Also, Doc was to make sure the Winston-Salem police department was aware of Field Day activities. The Saturday dinner at Field Day was discussed. **Don Edwards**, **WS4NC** talked about doing rotisserie chicken, green beans, coleslaw, potato salad and dessert.

d. Solar Panel: **Don Edwards, WS4NC**, talked about mounting a solar panel on the antenna trailer, powering a system to move the antenna up and down. A discussion on how to mount the bracket for the solar panel followed.

e. FARC Generator: Discussion was made on inspecting the club generator and the possible need for an oil change in the generator motor.

f. Electronic Filters: **Jerry Minor, W4GW**, talked about the need for a presentation on the electronic filters that is needed in the club shack.

f. Sauratown Repeater Issues and Discussion: The recent Sauratown repeater misuse issues and resulting FARC actions to curtail the misuse were discussed. Also discussed were the techniques that can be used to track and identify anyone interfering with repeater operations.

g. June Hamfest: **David Shoaf, KC4X**, talked about the upcoming FARC Classic Hamfest. He stated that he would scout the various vendors for possible donations for hamfest door prizes. Discussion was also held on the rule that door prize winners must be present for smaller prizes, but that was not necessary for the grand prize. VE testing was also discussed if the side room was available and enough VE's would be there to assist in the testing effort. Advertising for the hamfest was also discussed in addition to possibly doing a post card mailing, but concerns were expressed about the mailing cost.

4. Meeting Adjournment: Motion was made, seconded and meeting was adjourned at 2038 hours.

Arduino Workshop

& Future Technical Saturday Workshops

By Bob, NC4RG

The next Arduino workshop has not been announced.

Calendar of Upcoming Ham Events

Hamfests, Special Events, Contests, Club meetings, etc.

By Don WS4NC

[Ed. Note: I'm trying to put together a calendar of NC ham events of FARC and general ham interest, especially near Forsyth County. It is a real pain finding when and where events of ham interests are held. 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. Please all clubs, unless you are just trying to keep secrets – read your websites and make sure that Who, What, When, Where, and How are answered. If you know of a correction or something that should be here please send it to ws4nc <at> dwepe <dot> com. I know I am missing a number of NC clubs and NC (and big national) events that should be on the list. With your help I can make this a more useful list including events in VA, SC and TN.]

May 9 Rockingham County ARC Swapfest. Location: Reidsville, NC Type: ARRL Hamfest Sponsor: Rockingham County Amateur Radio Club Website: http://www.n4iv.org

May ? CQ WW Foxhunting Weekend

May 11 FARC General Membership Meeting at the Red Cross on Coliseum Drive in Winston-Salem. FCC exams at 6:20 PM, meeting starts at 7:30 PM.

May 16 FreeGate 2015. Location: Greensboro, NC Type: ARRL Hamfest Sponsor: Qorvo Amateur Radio Club Website: http://www.kd4rf.org

May 18 FARC Board Meeting. Our new meeting place is at Hams located in the Thruway Lower Mall. 7PM. Thank our hosts by ordering something and tip your waitress!7PM. Thank our hosts by ordering something and tip your waitress!

May 24 DurHamFest. For details see: http://www.dfma.org/index.php?option=com_content&view=article&id=295&Itemid=72

May 29-31 CQ World-Wide WPX / CW . This is a biggie HF contest. The multipliers are the prefix of the station worked. If your call has an unusual prefix this can make you very popular!

May 30 Dobson Hamfest. The annual Dobson Hamfest has been rescheduled for May 30, 7:00 am-noon. Proceeds from the hamfest will go to the Surry County ARES group.

June 8 FARC General Membership Meeting at the Red Cross on Coliseum Drive in Winston-Salem. FCC exams at 6:20 PM, meeting starts at 7:30 PM.

June 13 Winston-Salem Hamfest (Summit School, 2100 Reynolda Rd) **www.w4nc.com**

June 15 FARC Board Meeting. Our new meeting place is at Hams located in the Thruway Lower Mall. 7PM. Thank our hosts by ordering something and tip your waitress!7PM. Thank our hosts by ordering something and tip your waitress!

June 19-21 CQ WW VHF Contest.

June 27-28 Field Day – Hobby Park

July 11 30th Annual Firecracker Hamfest. Location: Salisbury, NC Type: ARRL Hamfest Sponsor: Rowan Amateur Radio Society Website: http://www.rowanars.org

July 13 FARC General Membership Meeting at the Red Cross on Coliseum Drive in Winston-Salem. FCC exams at 6:20 PM, meeting starts at 7:30 PM.

July 15-17: Special Event Station: Royal Rangers 2015 Camp-o-Rama, 1500Z-2200Z, K4R, Browns Summit, NC. Royal Rangers. 28.450 21.250 14.250 7.150. QSL. Steven R. Allen, 5691 Howell Dr, Dublin, VA 24084. Royal Rangers is a boys Ministry of the International Pentecostal Holiness Church and the Assembly of God Church. royalrangers1@verizon.net *[Thanks to Karl, W4CHX, ARRL NC Section Manager]*

July 18 Mid-Summer SWAPFEST. Location: Cary, NC Type: ARRL Hamfest Sponsor: Cary Amateur Radio Club Website: http://www.qsl.net/n4nc

July 20 FARC Board Meeting. Our new meeting place is at Hams located in the Thruway Lower Mall. 7PM. Thank our hosts by ordering something and tip your waitress!7PM. Thank our hosts by ordering something and tip your waitress!

July 24-26 CQ WW RTTY DX Contest.

Jul 18 Mid-Summer SWAPFEST (Harold Ritter Park, Cary, NC) www.qsl.net/n4nc

Jul 25 WCARS Hamfest (Haywood County Fairgrounds, Waynesville, NC) www.wcars.org

August 8: 17th Annual **Cape Fear Amateur Radio Swapfest**, Cape Fear Amateur Radio Society, Fayetteville, NC, http://www.cfarsnc.org/

August 10 FARC General Membership Meeting at the Red Cross on Coliseum Drive in Winston-Salem. FCC exams at 6:20 PM, meeting starts at 7:30 PM.

August 17 FARC Board Meeting. Our new meeting place is at Hams located in the Thruway Lower Mall. 7PM. Thank our hosts by ordering something and tip your waitress! 7PM.

September 5-6: **59th Annual Shelby Hamfest/Roanoke Division Convention**, Shelby Amateur Radio Club, Shelby, NC, see http://shelbyhamfest.org

September 14 FARC General Membership Meeting at the Red Cross on Coliseum Drive in Winston-Salem. FCC exams at 6:20 PM, meeting starts at 7:30 PM.

September 21 FARC Board Meeting. Our new meeting place is at Hams located in the Thruway Lower Mall. 7PM. Thank our hosts by ordering something and tip your waitress!7PM. Thank our hosts by ordering something and tip your waitress!

Sept 25-27 CQ WW DX / SSB. This SSB contest is regarded as the Super Bowl of ham radio. It is easy to work 100 countries during this contest and some of our members take this contest very, ***very*** seriously. W4NC/W4WS has placed in the top ten here. Plans for this year are still open.

Nov 27-29 CQ WW DX / CW. The CW version of ham radio's Super Bowl.

Nearby NC Ham Club Meetings:

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: I need more confirmation about this group. Still active? They were meeting at Davie County Hospital, 223 Hospital St, Mocksville.

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/

3nd 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 Sedgehill 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 May 28 ; 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/

Simplex Sundays.com

We received a postcard from WF5TX: On Sundays give the repeaters a rest and make a call on 146.52 FM Simplex. Please visit the website and send us any information you have on your individual, Club, or group 2-meter FM simplex activities such as contests, nets, informal activities, etc. After-action reports on past events appreciated. Remember, if everyone is listening, no one will hear anything. Make that call! 73 – WF5TX

Free Technician Study Guide

Raymond, WX5AAA, sends a link to a really good $FREE$ Technician study guide (ca 2010) on www.kb6nu.com web site.

http://www.kb6nu.com/wp-content/uploads/2010/06/2010_Tech_Study_Guide.pdf

Course in Weather Models

Another link from Raymond, WX5AAA:

For those who are interested in an understanding weather models The COMET Program is pleased to announce the publication of the new self-paced distance learning course entitled NWP Essentials
https://www.meted.ucar.edu/training_course.php?id=46.

[Editor: I haven't looked at the lessons, but I think this is fairly advanced. It might also take a bit of, um, "mathematical maturity". Still it would be fun.] The course consists of five lessons adapted from COMET's NWP Basics and Background course:

1. NWP and Forecasting
2. NWP Essentials: Structure and Dynamics
3. NWP Essentials: Data Assimilation
4. NWP Essentials: Model Physics
5. NWP Essentials: Precipitation and Clouds

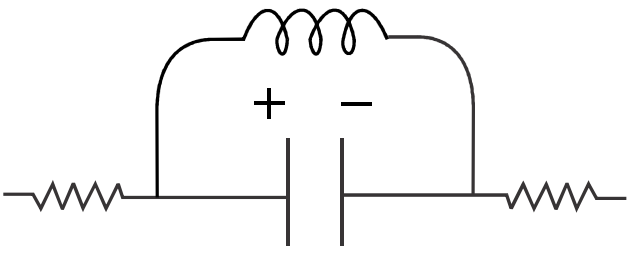
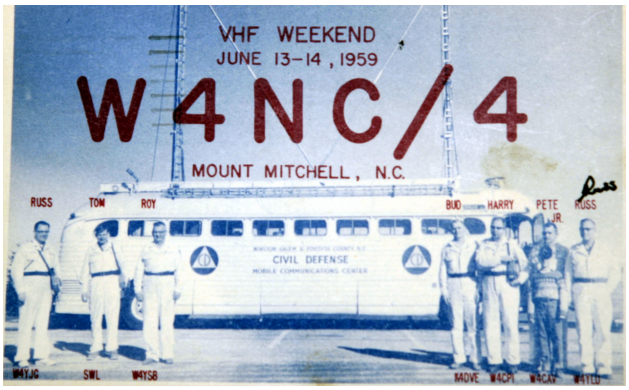


Figure 1. Kilroy was a band-reject filter with one eye closed!

More Wayback Machine

By Don, WS4NC

From sometime in the 1950s until sometime in the 1960s FARC had a converted bus used as a communications center. There are very few pictures of that bus, no records, and no one seems to know exactly what happened to it. Of course, the simple and most probable story is it became old (it was probably old when the Club acquired it) and it became an insurance, maintenance and parking liability. But I bet it was great fun when it was around. Here is a rare QSL card from the Club's June 13-14, 1959 VHF Weekend. Apparently **Beacham Leonard, W4RXG-SK** couldn't go on this trip – this QSL confirms a QSO between the club and **Beacham, W4RXG/4** on 144 MHz. Beacham was probably on Sauratown Mountain "babysitting" the WSJS-TV transmitter.



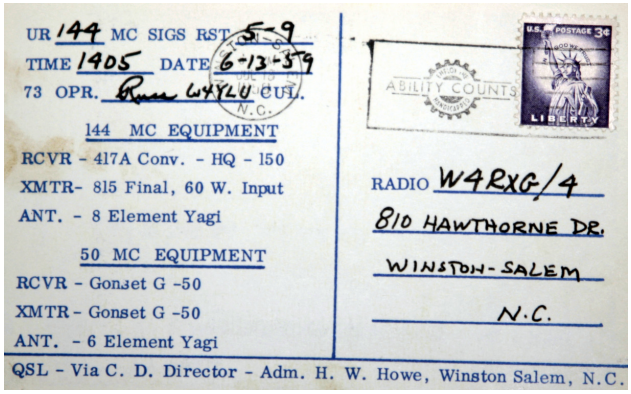
It is interesting to note that the W4NC 144 MC receiver used a 417A vacuum tube in the converter. The 417A is a 9-pin miniature triode with an indirectly heated cathode. It is intended primarily for grounded grid operation in the input stage of broadband amplifiers. This tube was developed by Western Electric and its primary use was in the 70 MHz IF of the many Bell System Towers that once covered the US. Many Western electric engineers were members of the radio club. I am sure that WE contributed to the construction of the 144 MHz converter – not a common item in 1957. Today the 417A is a prized "little darling" of some audio enthusiasts.

The 815 tube used in the transmitter was a pricey item in the late 1950s. Plus you generally had to build your own transmitter, as well as your own receiver (usually a converter as discussed above). There were no repeaters. The "Goonie Boxes" were starting to appear on the scene, mostly bought with CD funds. There were no FM repeaters. It was AM. Mostly 6 and 2 meters were vacant except for the same few people who had access to Civil Defense equipment.

Figure 2. The Gonset Communicator II. Two-meter AM anyone?

In the 1950s the Technician license existed mainly to encourage those who wished to experiment in the VHF range, at least that was the intent.

The back of the card:



Electronic Communication Act in NC General Assembly

By Don, WS4NC

"AN ACT TO MAKE USING A MOBILE TELEPHONE OR ELECTRONIC COMMUNICATION DEVICE UNLAWFUL WHILE OPERATING A MOTOR VEHICLE ON A PUBLIC STREET, HIGHWAY, OR PUBLIC VEHICULAR AREA UNLESS HANDS-FREE EQUIPMENT IS USED BY THE OPERATOR."

I was first notified about this by **Van Key, KC4WSK**. Thank you Van. Checking with ARRL NC Section Manager Karl Bowman, W4CHX it appears that no action is required beyond what the ARRL is doing at this moment. I'll try to keep FARC informed about this. From my email with ARRL NC Section Manager **Karl Bowman, W4CHX**:

"Don: Chuck Decourt, W3WZN, ARRL State Government Liaison for the NC Section, and I are aware of this Bill. Chuck W3WZN, and one of our former Section Managers, is in communication with one of the Bill's sponsors. It is my understanding that one of the sponsors, Senator Bingham (KJ4AX, a licensed Ham) did not consider the implications of the Bill on amateur radio operations. Apparently, an amended version of the Bill, favorable to amateur radio, will be brought forward after some procedural steps have been completed.

Chuck W3WZN and others are monitoring the progress of the Bill. We will keep the Hams informed as we learn more about the Bill.

73, Karl W4CHX,
ARRL NC Section Manager,
(919) 669-6068 (cell)"

Public Service: Short and Long

BY Jim Mansfield, WA4NOT
EC, Forsyth County ARES

SHORT: On March 28, we provided radio support for the Pilot mountain Payback marathon in Pilot Mountain State Park. The park has notorious dead zones for cell phones and simplex radios, but all of the race checkpoints have good VHF paths to the 145.47 repeater. The field of 72 runners, 23 full and 49 half-marathon folks, was the smallest in the race's history; so the event finished by 1430 local time when the last half-marathoner was taken off the course by the race directors. In addition to our usual jobs as communicators, some of our hams were the only eyes on the ground for about half the course. Half the aid stations run by volunteers in past races were left unmanned, except for hams, this time. A total of 34 operator-hours of service were performed by **Wayne KK4ZHL, David KK4GAF, John K1PPE, David KJ4OIL, Jerry WA4ZKI, Terry AK4D, David N5WNB and Jim WA4NOT.**

LONG: At the other extreme, on September 19 and 20, Forsyth ARES will support the 2015 Bike MS Tour to Tanglewood ride which has returned to its traditional 3rd weekend schedule. This event includes over 1,000 riders on Saturday and about 800 on Sunday. In 2014 we manned 17 radio positions each day: rest areas, SAG wagons and net control stations. **David, KK4GAF**, has already asked to ride in SAG 1 again this year, and I'm holding slots in the event director's and rest stop director's cars for **K1PPE** and **WB9SZL** if they're interested. Volunteer for other slots by contacting Jim Mansfield **WA4NOT** on a Thursday ARES net, at a FARC meeting or by email at mansfijr@gmail.com. More details will be available from monthly Bike MS committee meetings between now and September.

Diddle-De-Dah-De-Don

by Don, WS4NC

Many months the Newsletter goes out and I don't hear a thing. Last month was different. I received about 20+ emails and phone calls about that Newsletter, all positive. Thank you all for your comments. It seems that stations IDs have improved, discourse has become more civil and interference has gone away. Rather than go into all that – I'm moving on to better things. I did forget to include Janice, KJ4UYR among the excellent Vagabond Net controllers. Just an oversight, sorry Janice. I think the Vagabond Net and all the controllers are a treasure.

Thank you for your comments. I welcome any submissions.

By Don WS4NC
Newsletter Editor

North Carolina Radio Clubs – sorted by City
From ARRL

CLUB NAME	CITY	CALL	WEBSITE
Smith Chart Amateur Radio Society	Apex, NC	K4OO	http://smithchart.org
RANDOLPH AMATEUR RADIO CLUB	Asheboro, NC	NC4ZO	
Western Carolina ARS	Asheville, NC	W4MOE	http://www.wcars.org
WATAUGA AMATEUR RADIO CLUB	Boone, NC	WW4L	http://www.wataugahamradio.net
Orange County Radio Amateurs	Carrboro, NC	W4UNC	http://www.ncocra.org
MOORE COUNTY ARS	Carthage, NC	NC4ML	http://www.mocars.org
Cary ARC Inc	Cary, NC	N4NC	http://www.qsl.net/n4nc/
NORTH CAROLINA KILO WATTS	Chapel Hill, NC	NC4KW	
Mecklenburg ARS Inc	Charlotte, NC	W4BFB	http://www.w4bfb.org
Crude Dudes Contest Club	Charlotte, NC	W4FNC	
CHARLOTTE AMATEUR	Charlotte, NC	W4CQ	http://www.w4cq.net
BLADEN AMATEUR RADIO SOCIETY	Clarkton, NC	W4BLA	http://bladenamateurs.webs.com/
Sampson Cty Amateur Radio Service	Clinton, NC	W4TLP	http://groups.yahoo.com/group/sampsoncountyars/
Thermal Belt ARC	Columbus, NC	KF4JVI	http://www.polkcounty.org/
Cabarrus Amateur Radio Society	Concord, NC	K4WC	http://www.cabarrusars.org
DAVIE COUNTY AMATEUR RADIO CLUB	Cooleemee, NC	KI4ORW	
Carolina DX Association	Davidson, NC	W4DXA	http://www.cdxa.org
Durham FM Assn	Durham, NC	WR4AGC	http://www.dfma.org
ALBEMARLE ARS	Elizabeth City, NC	NC4EC	http://taars.us/
WILSON AMATEUR RADIO ASSOCIATION	Elm City, NC	WA4WAR	http://www.wilsonham.org/
Alamance ARC	Elon, NC	K4EG	http://k4eg.com
THE ROAD SHOW AMATEUR RADIO CLUB	Fairview, NC	WA4TRS	http://www.theroadshowarc.com
Cape Fear ARS	Fayetteville, NC	K4MN	http://www.cfarsnc.org
FRANKLIN AMATEUR RADIO CLUB	Franklin, NC	K2BHQ	http://www.franklin-arc.com
SOUTH WAKE AMATEUR RADIO CLUB	Fuquay Varina, NC		http://www.southwakearc.com
Wayne County ARC	Goldsboro, NC	K4CYP	
ENC Repeater, Inc	Goldsboro, NC	W4NBR	
GREENSBORO AMATEUR RADIO ASSOCIATION	Greensboro, NC	W4GSO	http://www.w4gso.org
Brightleaf ARC	Greenville, NC	W4AMC	http://www.w4amc.com/
HAMPSTEAD HAMS	Hampstead, NC	NC4PC	http://www.hampsteadhams.com
High Point ARC	High Point, NC	W4UA	http://www.w4ua.org
CAROLINA FLASHERS PHOTONICS GROUP	Hillsborough, NC	K4THZ	http://www.carolinaflashers.org
Blue Ridge ARC	Horse Shoe, NC	W4YK	http://www.radioclub.org
Onslow ARC, Inc	Jacksonville, NC	WD4FVO	http://www.OnslowARC.org/
Ashe County ARC	Jefferson, NC	W4YSB	http://www.w4ysb.org
Kinston ARS, Inc.	Kinston, NC	W4OIXS	http://W4OIX.org
OUTER BANKS REPEATER ASSN.	Kitty Hawk, NC	W4PCNS	http://OBRAobx.com
Lenoir ARC	Lenoir, NC	N4LNR	http://n4lnr.org/
CAROLINA AMATEUR RADIO CLUB	Lincolnton, NC	KM4FJA	http://www.carolinaradioclub.com
GASTON COUNTY ARS	Lowell, NC	N4GAS	http://gcars.org/
Robeson County ARS, Inc	Lumberton, NC	W4LBT	http://www.rcars.org
McDowell ARA, Inc	Marion, NC	W4HOG	http://main.nc.us/maraclub
Union County Ars	Monroe, NC	NC4UC	http://www.NC4UC.org
Western Piedmont Arc	Morganton, NC	W4YIU	http://www.wparc.com
New Bern ARC	New Bern, NC	W4EWN	http://www.nbarc.org
Carteret County ARS	Newport, NC	W4YMI	http://www.w4ymi.com
FOOTHILLS AMATEUR RADIO CLUB, INC	North Wilkesboro, NC	W4FAR	http://www.foothillsarc.org
Stanly County ARC	Norwood, NC	K4OGB	http://www.k4ogb.org
BRUNSWICK SHORES AMATEUR RADIO CLUB	Oak Island, NC	N4GM	http://www.n4gm.org
Guilford Amateur Society	Oak Ridge, NC	W4GG	http://www.w4gg.org
PAMLICO AMATEUR RADIO SOCIETY, LTD	Oriental, NC	N4PRS	http://www.n4prs.org
North Carolina State Univ ARC	Raleigh, NC	W4ATC	http://w4atc.ncsu.edu
UNITED STATES POWER SQUADRONS ARC	Raleigh, NC		http://www.usps.org/national/Ham/RadioClub.html
Raleigh ARS, Inc	Raleigh, NC	W4DW	http://rars.org
ROCKINGHAM COUNTY AMATEUR RADIO CLUB	Reidsville, NC	N4IV	http://www.n4iv.org
Tar River Amateur Radio Club	Rocky Mount, NC	W4DCG	http://www.TarRiverARC.org
Rowan ARS	Salisbury, NC	N4UH	http://www.rowanars.org
CLEVELAND COUNTY AMATEUR RADIO SERVICE	Shelby, NC	NA4CC	http://www.ccarsnc.org
Shelby Amateur Radio Club	Shelby, NC	W4NYR	http://www.shelbyhamfest.org
Mayland Amateur Radio Club	Spruce Pine, NC	KK4MAR	http://kk4mar.org
IREDELL COUNTY AMATEUR RADIO SOCIETY	Statesville, NC	W4SNC	http://www.w4snc.org
Tri-County Amateur Radio Club	Trinity, NC	NC4AR	http://www.nc4ar.org
Montgomery Amateur Radio Society	Troy, NC	NC4MC	http://www.creativephotography.embarqspace.com/#/mars-pictures/4530523
NORTH CAROLINA DX AND CONTEST CLUB	Tryon, NC	KK4LVF	https://groups.yahoo.com/neo/groups/
PAMLICO ARC	Washington, NC	K4BCH	http://www.k4bch.com
HAYWOOD COUNTY ARC	Waynesville, NC	KW4P	http://wnchamradio.org/
APPALACHIAN CONTESTERS	West Jefferson, NC	W4APP	http://www.w4app.com
AZALEA COAST AMATEUR RADIO CLUB	Wilmington, NC	AC4RC	http://www.ac4rc.org
WILMINGTON VHF ASSOCIATION, INC.	Wilmington, NC	N4ILM	http://www.n4ilm.org
Forsyth ARC	Winston Salem, NC	W4NC	http://www.w4nc.com/
PITT COMMUNITY COLLEGE AMATEUR RADIO CLUB	Winterville, NC	K4PCC	http://www.pittcc.edu/experience-pcc/clubs-and-organizations/amateur-r
YADKIN VALLEY A.R.C.	Yadkinville, NC	KE4YVF	http://www.angelfire.com/nc3/yvarc
Franklin County ARC	Youngsville, NC	KF4HFQ	www.fcarc.net

Forsyth Amateur Radio Club Membership Form

CALLSIGN	BIRTHDAY (MMDDYY)	FIRST NAME & MI	LAST NAME

ADDRESS

********** EMAIL ADDRESS**********

CITY	STATE	ZIP	+4	(YES) (NO) ARRL MEMBER?	(YES) (NO) ARES MEMBER?	(EMAIL) (USMAIL) NEWSLETTER BY

HOME PHONE	(YES) (NO) PUBLISH?	CELL PHONE	(YES) (NO) PUBLISH?	WORK PHONE	(YES) (NO) PUBLISH?

NOTE: WE NEED PHONE NUMBERS FOR EMERGENCIES AND MEMBER DIRECTORY

HAM FAMILY MEMBER 1 (OR ADDRESS LINE 2) — CALLSIGN

HAM FAMILY MEMBER 2 (OR ADDRESS LINE 3) — CALLSIGN

Note: Full Membership and family members must be licensed hams.
Please check the special interests you may have below:

( ) CW	( ) Science Discussion	( ) QRP
( ) Digital	( ) EME	( ) Kit Building
( ) Foxhunts	( ) Satellite	( ) Arduino
( ) HF Contesting	( ) Emergency Comms	( ) FARC Board/Business
( ) VHF Contesting	( ) Public Service	( ) _____
( ) ARES	( ) SWL	( ) _____
( ) Microwaves	( ) Test Equipment	( ) _____

DUES EXPIRE IN DECEMBER -

1. Regular Dues $24. If over 65 or full time student, dues are $12 _____
2. Donations (Appreciated!!) _____
3. FAMILY MEMBERS Now FREE! _____
4. Total _____

1st line is CALLSIGN – **BIRTHDAY** – FIRSTNAME - LAST NAME.

2nd line is STREET ADDRESS then **EMAIL ADDRESS**. **Please make sure your email address is correct.** The Newsletter is sent to email addresses only because of cost (now about $0.70 with printing and postage) and almost everyone has an email address. We still send some US Mail several times a year and for those without internet access.

3rd line is CITY, STATE, ZIP, ARRL MEMBER (Y or N) ARES (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. If you are not ARES, and want to be, just check the box and you will get a form from Jim WA4NOT. There are no ARES dues or particular membership requirements – there is training that you should complete to participate in big emergencies. There is a net on 145.47 on Thursday evenings (open to all) and many fun ARES events during the year, often with FREE T-shirts.

4th line is for phone numbers. Because we deal with emergencies at times we need contact numbers. We haven't published a public digital directory since someone abused the listings with spam – that wasn't cool. Publication may change this year. If you do not wish for your number to be published in a general directory then mark (no) and it will be accessible only to FARC and ARES officers. Automatic Renewals will not show numbers if you have asked for no publication.

5th and 6th lines. If there is more one licensed ham in the family, all may be members for FREE after one paid full membership; if all family members qualify for the lower $12.00 rate then only one $12.00 membership is required.

Right bottom – dues are $24 for regular members, $12 for those over 65, handicapped or students. Family membership is free for all licensed family members at one address with one paying member. If this card is for a family member then in renewals the total will say SEE [main members call]

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 the sheet so club records can be kept up to date.

Forsyth Amateur Radio Club, Inc.
PO Box 11361
Winston-Salem, NC 27116-1361

Thanks and 73, Don WS4NC and Terry, AK4D--FARC Secretary