



Forsyth Amateur Radio Club, Inc.

Newsletter



Founded December 30, 1930

August, 2005

July Program Highlights

Charles Layno, W4CL, from Channel 8 gave a great presentation to a very rapt audience on digital TV. Charles brought a digital receiver to the Club meeting and set up an antenna outside. We watched examples of broadcast digital TV on a small monitor.

When the changeover to digital TV is completed the older analog-tuner sets will no longer receive TV over the air. They can still be used as monitors, of course, provided you have a HDTV tuner.

The new system promises multiple programs per channel. Although there are no set limits on the number of programs; the practical limit is five video programs per channel. Instead of video, a large number of audio streams are also possible.

After the change channel 12 will be on channel 31 but will still be called channel 12. Except on cable where it's channel 11. Got that? It's gets more complicated.

HDTV will have higher resolution than the old 525-line analog system, up to 1020-lines of resolution, so the pictures will be better. There are multiple resolution systems that will be broadcast (but the magic all happens inside the HDTV tuner - so you don't have to keep track of which-is-which).



Valdese Antique Radio Swapmeet Report

The Antique Wireless Association held its third Annual Radio Swap Meet in Valdese on Saturday, July 30. I didn't know about it until the Friday night before. Don Donadio, KT4KV (AKA Don-Don), called me and asked if I'd like to go. But, of course!

These meets are always an enjoyable time for lovers of old radios. The prices are usually very reasonable, too. I told myself that I wasn't buying anything. Liar! I came back with a couple of Hallicrafters, an S-20R and an SX-77A (shown in the lower left corner, below). At pack-up time I was made an offer I couldn't refuse.

There was another radio - a 1929 Philco floor-model with spindle legs that almost came home with me. It's shown in the lower right corner and just to the left is the cast-metal front escutcheon and inside the lid. It would have looked great in the dining room of my 1929 house. Fortunately for my wallet it was already sold.

A beautifully-restored Zenith was playing big-band music. The zenith is shown across the top row of pictures, including its "honking big" speaker. There is no way to compare that sound. I could have listened to that all day.

Don, WS4NC



Pfafftown Hamfest, October 8, 2005

Yes, we are having another hamfest. This time at the West Central Community Center. This is a beautiful place to hold a hamfest. This will be similar to our January event in terms of setup, etc. More details next month!

Club Meeting, Monday, August 8, 2005

We will meet, as usual, on the 2nd Monday of the month at 690 Coliseum Drive in the Red Cross Building at 7:30 PM sharp in Room 09, but come early, say, 7:00-ish, to "hob-nob" with your fellow hams. Program will be on the Reynolds Airport.

LICENSE EXAMS, Saturday, August 6, details inside.

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).

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 (sometimes called the Board Meeting) on the 3rd Monday generally at the same location. 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 336-723-7388; or visit our web site at www.w4nc.com. Club email is to w4nc@triad.rr.com.

Officers for 2005 are:

President: Tom Gallagher, N4IOZ
tomgallagher@triad.rr.com

Vice-President: Melissa Hall, W4RXG
mhall@triad.rr.com

Secretary: Robert Whitaker, KG4NEP
kg4nep@yahoo.com

Treasurer: Henry Heidtmann, W2DZO
henry@summitschool.com

Newsletter Editor: Don Edwards, WS4NC
ws4nc@arrl.net

To join our list server send a blank email to
w4nc-subscribe@yahoogroups.com

All content is Copyright 2005 by Forsyth Amateur Radio Club, Inc, unless otherwise noted. Permission is given to reproduce for non-commercial purposes provided proper credit is given. If you would like to help support the newsletter with an ad, please contact Don Edwards (email: ws4nc@arrl.net). Ad deadlines are 7 days before the end of the month. Rates are \$50 for 12 months. *Cheap!*

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

Mileposts from FARC Members:

Tom Gallagher, N4IOZ

I noticed in the Roanoke Division Newsletter that a certain Tom Gallagher, N4IOZ, from Winston-Salem was awarded the Seth T. Price Scholarship from the Foundation for Amateur Radio.

Way-to-go Tom!

Terry Hendrix, KC8OEX

I found out through Carl, N4PAA, that Terry Hendrix has moved to Route 2, Box 491, Bluefield, VA 24605. Terry has been moving so much we couldn't keep up with his address. Rest assured Terry, we have your address updated and back on the list.

Raja Chatterjee, KB6MTH

Raja made it safely back to Kuwait. Hopefully his tour of duty will be over soon. Raja reports that it is typically 130 degrees there and that the air-conditioning can keep it as low as a refreshing 90+ degrees. Ouch!

Ed Swiderski, KU4BP

Back on June 11 Ed ran the VHF contest from up on the Blue ridge Parkway. Ed reports "I ran a total of 6 hours on the mountain yesterday and came home. "Murphy" hit twice. Once before and just after the start. I goofed and crossed my power cable on the battery and blew the fuse in the fusible link. Had no fuses so I had to cut it out. Then, 20 minutes after the start the wind blew my antenna down. It pulled out of the foot I was parked on. Had to bend back 4 elements and bungee cord the mast to the truck.

Continued at top of Page 3



Ed, KU4BP, looks cold while working the VHF contest on June 11 from the Blue Ridge Parkway.

Ed, KU4BP Continued from Page 2

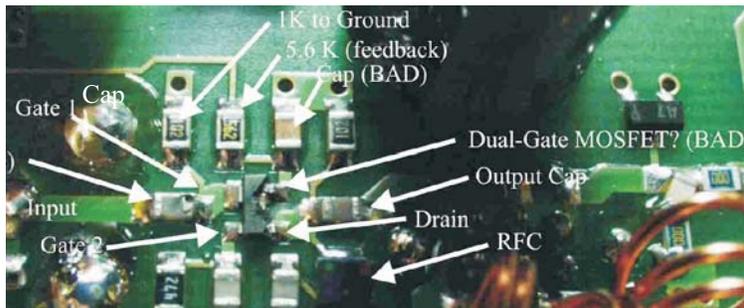
Weather up there mostly cloudy and very windy. The wind was constant at about 20 mph and estimated gusts up to 50 mph at times. The temp felt like it was in the low 30's."

Ed has been really working on collecting some wall paper too. He has received confirmation for 5BWAC(Worked All Continents) SSB. The certificate should be here in a few weeks. Also, his latest round of DXCC cards are going into confirm DXCC Challenge. When he gets that plaque I'm sure we can get him to bring it to a Club meeting for "show-and-tell".

More Kudos for Tom, N4IOZ

Lightning took out the cable again at the Red Cross and our ever intrepid President made his way over to the RC and replaced the master CATV amp. Again. He also did that last month. Now it has some serious surge protection in front of the amp. Hopefully this will not be necessary again.

Here's a (much magnified) photo of what the lightning did to the amplifier. The input cap, the MOSFET(that's a guess - it doesn't follow the standard pinout if it is a MOSFET) and the Bypass Cap in the Source lead are definitely shot. You can see the cratering in the input cap and the cover blown off the input transistor. It's harder to see in the photo but apparent with a jewelers loop that the source cap is cracked.



Dick Genaille, W4UW

This is a follow-up to the story in last months Newsletter about Dick Genaille and the request from David Ricquish of the Radio Heritage Foundation for information about Dick's time with broadcasting in the South Pacific. The Radio Heritage Foundation is documenting early broadcasting in the South Pacific.

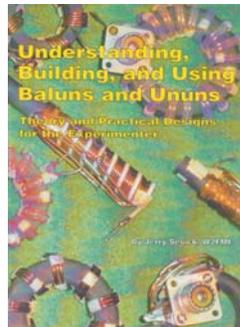
Dick sent them a large package of photos and other material which they are sorting through and posting on their web site. You can see more photos at www.radioheritage.net.



Photo courtesy of the Radio Heritage Foundation, Dick Genaille Collection.

Find the column *From David's Desk* and look for July 25, 2005. "This is a very special image I wanted to share with you. It seems so often that radio stations from the past are just words in an old newspaper, and

fading memories. Every now and then, we're lucky to find something more tangible. . . Dick has contributed a great personal story about life at an AFRS station in 1945, and more wonderful photos. His contribution is coming on-line soon. Watch out for it, it's a keeper!"



And while we're chatting about W4UW: A few of you may be familiar with the book by Jerry Sevick shown to the left. Sevick is the expert on all things related to baluns, ununs and the like. Check the references in the back you will find "10. Richard A. Genaille, W4UW "How to build a Multi-Tap Unun,"CQ May 1992 pages 28-32".

In Chapter 14 and on page 97 of *Baluns and Ununs* Sevick says " . . .an article by Dick Genaille¹⁰ have shown that a host of ratios (less than 4:1) can be obtained by tapping the bifilar winding of a Ruthroff 4:1 Unun."

W4UW really seems to get around, doesn't he? I know that Dick has written quite a few articles for the ham magazines. It is a special honor to be quoted as a *reference* though. Congratulations Dick.



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K4RWV Club Donation

Gene Poindexter, son of Oscar Poindexter, K4RWV, has graciously donated Oscar's ham gear to FARC. Oscar had been a good friend and Gene and I went to High School together. This generous gift is a testament to Oscar's life-long interest in ham radio and will help FARC carry out its mission of public service. It is greatly appreciated, thanks Gene.

Don, WS4NC

Everett Carty, KC4HDN

Sadly, this passed us by at the time. It's with regret that we report that Everett Carty, KC4HDN became a Silent Key on September 14, 2004. Everett was a regular at the monthly club meetings of FARC, and extremely active in ARES. We remember hearing him often in many events and the weekly ARES net, and he always cheerfully offered his assistance. Although his activity on the air and in the field often took away from his time with his family, it brought him great happiness. We miss him, and we thank his wife Anne for sharing him with us while he was alive.

CARTY

Mr. Everett L. Carty of Winston-Salem passed away Tuesday, Sept. 14, 2004, at Wake Forest University Baptist Medical Center. He was born Aug. 24, 1922, in Abingdon, Va., to Charles F. and Elizabeth H. Carty. Mr. Carty was a retired electrical engineer who had worked for AT&T. He received a BS in Electrical Engineering from N.C. State University and an MBA from UNC Greensboro. In World War II he served in the U.S. Army Signal Corps in Fort Holabird, Baltimore, Md., working with a group of engineers who determined optimal times, frequencies and atmospheric conditions for Allied radio communications in the Pacific Theater. He was an amateur radio operator and an expert woodworker and woodturner. Mr. Carty is survived by his wife of 50 years, Anne Carty; a brother, Charles F. Carty Jr., of Durham; his son, Thomas C. Carty, an airline pilot and retired Marine and his wife, Sara, of Spotsylvania, Va., and their four children, Kendall, Lindsey, Ethan and Cameron; and a son, Brian M. Carty, MD of El Paso, Texas. A memorial service will be held at 4 p.m. today, Sept. 16, at Hayworth-Miller Silas Creek Chapel with the Rev. Daniel Wilkers and the Rev. Jonathan Freeman officiating. The family will receive friends from 2 to 4 p.m. today at the funeral home prior to the service. In lieu of flowers, memorials may be made to the American Heart Association, 202 Centerport Drive, Suite 100, Greensboro, NC 27409.

(Reprinted from the Winston-Salem Journal)

Tower Rebuild at NCBH

The date for the Baptist Hospital tower refurb has been set. Saturday, August 13, 2005... 8:00 AM (or earlier...) at the hospital.

A proposal has been made to investigate putting folded dipole arrays up for 2-meters and 440 MHz. If they can be assured delivery before that date, we will go with that. If they can't be ordered with assured delivery before that date, we're going to go with the X500-HNA Diamond for both the NCBH and SM sites, and hold the retired hospital antenna as a standby. What this means is: the dipole array, if we are to go that way, must be ordered by Friday the 22nd.

AND... Speaking of the Sauratown Mountain site... the date has been set for that expedition, too. Task at hand is to install the X500-HNA and new hard line there. Saturday, September 10, 2005. Probably 8:00 AM (or earlier) again.

73, N4IOZ

UPCOMING HAMFESTS & OTHER HAM DATES

August 27-28, 2005

West Virginia State ARRL Convention
West Virginia State Amateur Radio Council Weston, WV West
Virginia Convention Center, Jacksons Mill Route 1, Box 210
E-mail: w8xf@arrl.net

September 3-4, 2005

Shelby Hamfest
Shelby Amateur Radio Club
Shelby, NC
Cleveland County Fairgrounds
1751 Marion Street
<http://www.shelbyhamfest.org>

September 17-18, 2005

ARRL Roanoke Division Convention
Virginia Beach Hamfest and Electronics Flea Market Tidewater
Radio
Conventions Virginia Wesleyan College
1584 Western Drive
<http://www.vahamfest.com>

October 8, 2005

Pfafftown Hamfest

October 29, 2005

South Carolina State ARRL Convention
Grand Strand Amateur Radio Club
Conway National Guard Armory
1621 16th Ave
Conway, SC
<http://www.w4gs.org>

Hamdates: Continued from page 4

December 17, 2005

W4NC 75th Anniversary Special Event Station

1300z to 2100Z (8:00 AM-4:00 PM EDT)

Look for updates and more details in a future Newsletter.

License Exams

The Forsyth Amateur Radio Club will offer license exam sessions on Saturday, August 6 at 9 AM at the American Red Cross Chapter House, 690 Coliseum Drive, in Winston Salem. This is across the parking lot from the Arts Council Theater ("Little Theater"). Please call 336-723-7388 and leave a message that you are planning to attend. If no one calls, by Friday night before, the session may be canceled. Examinees need: Photo ID, ORIGINAL and COPY of all documents (License, CSCEs, anything else submitted for exam credit), Social Security Number, and fee of \$12. Registration begins at 8:30 AM. Exams begin at 9:00. Please arrive before 9:00 because if you aren't there we might leave!

W4NC 75th Anniversary

Thanks to the effort of Ed, KU4BP, Henry, W2DZO and Gary, WA4IAM we will be celebrating the 75th Birthday of the Forsyth Amateur Radio Club with a Special Event Station on December 17, 2005. Time will be 1200Z to 2200Z. We will be on the following modes using vintage stations:

Mode	Frequencies (+/- 20 kHz)
SSB	21.320 14.270 7.250
CW	21.050 14.050 7.050
AM	7.285 - 7.295

More details at:

<http://home.triad.rr.com/ku4bp/main.html>

ARES Net

Please be planning to help out with the Tour-to-Tanglewood, September 24 and 25. This is our largest ARES event during the year. Also the recent storms caused by the remains of Hurricane Cindy point out the need for us to be ever ready to respond.

Please join us on the Forsyth County Ares Net Thursday evenings at 8:30 p.m. on the W4NC repeater, frequency 145.47 MHZ.

73, John, N0KTY

Forsyth Emergency Coordinator

FCAN Report - July 7, 2005

July 7's net had 13 checkins, one piece of formal traffic passed, a formal time of 23 mins with a total time of 40 mins.

List of checkins: KE4JHJ (NCS), KG4ECI, KF4EOD, KG4FGC, WF4DD (WFU ARS), N0KTY, WS4NC, KF4PLQ, Nw40, WB4QXG, NA4P, AG4RZ, KG4NEP

73, Dave, KE4JHJ

FCAN Report - July 14, 2005

Net started at 8:30 PM. Net Control station - N4PAA.

Check-ins: 10. Stations were KG4ECI Dan, NA4P Fred, KF4EOD Mike, KG4FGC Ken, WF4DD WFU Club Station, N0KTY John, KF4QKR Mike, WB4QXG Fred, K14KLO Tim and N4PAACarl.

Two pieces of Traffic. Traffic was passed from NA4P to KG4FGC and KG4FGC to NA4P.

N0KTY conducted the ARES meeting. John updated us on the unusually active hurricane season and the projected paths of the two tropical systems heading west across the tropics. Keep the weekend of September 24 - 25 free for the Tour to Tanglewood. Also, we have been requested to supply portable scanners or similar devices so non-ham SAG vehicles can monitor the activities along the route of the tour.

Formal session - 20 minutes. Informal session - 12 minutes. Total time - 32 minutes.

73, N4PAA, Carl

Radio Museum

In case your significant other complains about your collection of "junk" (that's different from "junque", which is what you call it), take a look at this web site. It loads a little slowly because there are a lot of pictures. This is where ham rigs go when they die.

<http://members.cox.net/wa6mhz/>



This is only one of many, many photos. Every radio you've ever heard of is represented in WA6MHZ's collection.

Monthly ARRL NC Section News (excerpts)

I'd like to thank all who participated in Field Day this year. I visited 11 clubs, and received Field Day traffic from many more. Great job. I hope we can get good participation like this in the upcoming Simulated Emergency Test.

Jim Rogers, N4FHM is now the Net Manager of the North Carolina Evening Net (3923 kHz, 6:30 PM). Thanks to Jim and to outgoing NM Chuck Wright, K4NYS for his service also.

Passing traffic is not hard, and it is necessary when messages must be relayed or are important enough to require that it be written and signed. Don't be afraid of giving it a try. If you are unfamiliar with the format, it's OK to ask for help or to ask for something to be repeated. Accuracy is more important than speed (that's true for tactical traffic also). Digital modes will continue to grow, but old-fashioned voice traffic will not be obsolete any time soon. Be flexible enough to work with whatever is available at the time.

We have several VHF traffic nets in the state which provide an opportunity for most operators to get proficiency in passing traffic. Our main traffic nets are:

Central NC Traffic Net, 146.82 (Wilkesboro), 9:30 PM.
Piedmont Coastal Traffic Net, 146.88 (Raleigh), 9:00 PM.
Eastern NC Traffic Net, 146.685 (Grifton), 8:30 PM.
Southeastern NC Traffic Net, 147.045 (Lumberton), 8:00 PM.

In addition, there are many club and ARES nets on VHF which might offer an opportunity to pass traffic.

If you are interested in practicing traffic on CW, we have the Carolinas Slow Net which meets nightly on 3695 kHz at 8:00 PM. Speeds are typically 5-8 WPM.

I should remind you that all of NTS Cycle 4 takes place using CW, so this is still a useful skill, and besides, it's fun.

Claude Chaffin, K4CWZ became a silent key just before Field Day. Claude was manager of the Tarheel Emergency Net (THEN, 3923 kHz, 7:30 PM) until about a year ago. Claude encouraged all net participants to learn new techniques, practice them regularly and to be ready in case they were needed. He will be greatly missed, but because of him, many more of us were ready when disaster struck than would have been otherwise.

73, John Covington, W4CC

Let's Build Stuff - LM-386 Amplifier and Diode Receiver Kits

I've heard from several members, Tim King, KG4RZ, Dick Genaille, W4UW and Don Donadio, KT4KV about how their building experiences went. Dick said he didn't believe me about receiving Radio Japan and others. Now he is reporting success and loads of fun listening to SW. You really need to wait until after dark, then signals just come booming in. A bigger speaker is a big help also.

One item to save yourself some trouble: a pair of back-to-back silicon diodes (1N914 or 1N4148) across the antenna will drain off any static charges from the antenna. A couple of them have died and that is probably due to static build-up. Be sure to disconnect and ground any antenna you have. Even distant lightening can induce enough to kill the 1N34 diode and possibly the amp.

This month there will be a breather in "Let's Build Stuff". but I'm approaching "critical mass" on about half-a-dozen projects, so be expecting more.

PS: I owe a couple of people some Fahnstock Clips and wire for the coils. I have the Fahnstock clips but they must be mining the copper for the wire. I should have it by the Club meeting on the 2nd Monday of August.

73, Don, WS4NC

All American Five

Here's a quiz for the "old timers" in the Club. What tubes were used in the All-American Five? Answers at the bottom of page 7.

August Meeting Program August 8, 2005

The Program this month will be about the Reynolds Airport, don't miss it. It promises to be another great program.

*73s, Melissa Leonard Hall W4RXG
Vice President*

The Newsletter Hamfest:

Audio Amplifiers Kits: I still have a few kits available for the LM-386 amplifiers. It's not too late to join us in building some goodies this year.

Chanel Master Rotor: Does anyone have a Three wire antenna rotator controller, or the schematic for one? I have a channel master tv antenna rotor that I need a controller for. Alternatively, if anyone has the schematic for one, that would work as well....

Continued on page 7

Tim, AG4RZ

Did anyone catch the name/call of fellow who had the SB-220 at the hamfest this morning? He told me that he would let me have it cheap if I paid cash, but he took off all of a sudden.

Tom,N4IOZ

Craftsman Drill Press, floor type. I have a large, floor-style, four speeds, 12-inch throat Craftsman Drill Press for Sale. \$125. For \$150 I'll throw in a 4-inch cross vise. I have bought a new drill press and I don't need two. Call me at 336-413-3838.

Don Edwards, WS4NC

And . . . in other news . . .

BBC

(Column from the LA Times, July 10, 2005

<http://www.latimes.com/business/la-fi-technopolis10jul10,1,5259165.column>

At the BBC radio site, <http://www.bbc.co.uk/radio>, you'll find live broadcasts of the network's hallowed World Service - in 43 languages - that debuted in 1932 and set the standard for international radio.

But the Internet has also brought the rest of BBC radio - designed for domestic consumption - to a far wider audience. It is some of the most vibrant, entertaining radio in the world.

The domestic service consists of 10 English-language, live channel streams with programming on business, current affairs, drama, comedy, science, religion and a variety of music genres, including pop, classical, hip-hop, jazz, country-western and world music.

It's also a site that many people apparently turn to for breaking news. Shortly after the London public transit bombings Thursday morning, I tried to access the BBC's all-news Five Alive channel online, but it was so overloaded with people seeking its live local coverage that I couldn't get to it for nearly two hours.

Sending BBC's domestic programs around the world for free amounts to subsidizing foreign consumption of a service that British citizens have to pay for, and BBC management is considering ending it.

The All-American Five, as the five-tube radio was known had a number of implementations, so this is a trick question. Probably the most common (from my experience) was 50C5 for Audio Output, 35Z5 rectifier, 12BE6 converter, 12BA6 IF amp, 12AV6 detector. Putting the tube filaments in series added up to 120 volts or there about, so no filament transformer was required and the line voltage would be rectified for the B+. This required that the chassis be connected to one side of the power line. A shocking experience.

The domestic service, including the online streams, is subsidized out of the annual license fee charged to every household in Britain that has a television set. The fee, which also supports a variety of other noncommercial BBC radio and television operations, comes to about \$230 per household.

The fact that we outsiders get the service without having to pay a fee probably would not be an issue if this was standard broadcast radio, which costs the same to distribute no matter how many people are listening.

But the more people listen to online radio, the more bandwidth the broadcaster has to purchase.

"It's a complex situation," said Simon Nelson, controller of the BBC's radio and music interactive services.

"I'm proud that we deliver a service that is valued all over the world. But I have to make sure we are not using the public license fee to subsidize free international services. We need to find the right balance."

Nelson said no decision has been made on the possibility of restricting the online domestic service in some way - possibly to listeners who have Internet addresses inside Britain.

The message is that it's probably not going to disappear right away. But just in case, go for it now.

Editor's Corner

The photo on the back is from a postcard sold on eBay: Item number: 2271414447. Sold for \$4.01. "Smith-Reynolds Airport, Winston-Salem NC, Postcard 1968 An unused postcard of Winston-Salem's Smith-Reynolds airport. It was published by Aerial Photography Services of Charlotte in the 1968. It is 3½" x 5½" size, unused and in Excellent condition."

For information to make it into the Newsletter, I need submissions no later than the morning of the 4th Monday of the month. Email me at ws4nc@arrl.net with any submissions. Just plain text is all that's required, most formatting will be redone to match the Newsletter's form anyway. Pictures can be most any form, but jpg's are probably best. Pictures need to be of the highest resolution possible.

73, Don, WS4NC

Forsyth Amateur Radio Club, Inc.
c/o Don Edwards, PE
1245 E Sprague St.
Winston-Salem, NC 27107

Moment of Zen

Since we are going to have a program about the Reynolds Airport this month, here is a copy of a postcard from 1968. For more information see the Editor's Corner on page 7. The biker chicks will have to wait until next month. It will be tasteful - I promise. 73, Don, WS4NC

