



Forsyth Amateur Radio Club, Inc.

# Newsletter



**FARC NOW 81! Founded December 30, 1930**

September, 2012

## Tour to Tanglewood 2012

*by Jim Mansfield WA4NOT*

Seventeen hams have signed up already, but we still need one more firm commitment for Sunday and four more for Saturday. Join the crew by emailing one of the following: Jim Mansfield (Forsyth ARES EC) [wa4not@arrl.net](mailto:wa4not@arrl.net), Tim Yarbrough (AEC – planning and operations) [kf4hhg@gmail.com](mailto:kf4hhg@gmail.com) or check into the Thursday evening ARES nets on 145.47 (T100), or sign up at the September Forsyth County Radio Club meeting.

On Saturday and Sunday, September 15 and 16, an estimated 1,600 cyclists will ride routes ranging from 5 to 100 miles in this year's Tour to Tanglewood, an MS ride. It's the largest annual public service and field training activity for Forsyth County hams.

The new route maps haven't been published yet. Based on preliminary info from the MS folks we'll need 19 operators on Saturday and 16 on Sunday to provide radio coverage for the event's directors, support vehicles and rest stop crews. Net control stations and mobile operators will have full-day shifts. Rest stop operators work while their assigned rest stop is open – 2, 3 or 6 hours depending on route position. So volunteer for the

## SEPTEMBER MEETING

The general meeting of the Forsyth Amateur Radio Club will be (as almost always) on the second Monday of the month, September 10, at the NW NC Red Cross Building on Coliseum Drive. The meeting starts at 7:30 PM but plan on arriving early, say 7 PM to get a good seat and to chat with fellow hams. Ham Exams start at 6:30 PM and require pre-registration. This month's program will be about contacting the international space station by Gaither Frye KD4CTY!

weekend, for one day, or for a few hours as your schedules permit.

All licensed hams can participate; prior ARES membership is not required. We'll be operating on 2-Meter FM; 5-watt HTs are sufficient if used with physical ¼ wave or higher gain antennas. Rubber ducks can't handle the distances involved. 10-watt or more powerful mobile units are more effective at the rest stops, and mobile units with mag-mount antennas and 12-volt (cigarette lighter) power plugs are required for use in the event vehicles.

## 2112 ARRL INTERNATIONAL Earth, Moon, Earth (EME) Competition

*by Doc WB4QIZ*

I'm hoping to get some FARC interest in EME communications. I have not tried it but I believe that we can be successful. Really big stations are on the air during the EME contest so we don't have to have a massive antenna on our end to make a contact. Our best chance will be on 144 MHz..

Three weekends of activity and fun! Oct 6-7: 2.3+GHz, Nov. 3-4: 50-1296 MHz, Dec. 1-2: 50-1296 MHz. Becoming active in Earth Moon Earth (EME) has never been easier! Many stations are working DX on 2 meters and up with only 100 watts and a single long boom Yagi. Using CW or digital modes, you too can bounce your signal off the lunar surface and work DX! (250,000 miles) Certificates awarded to all stations that submit a log. Complete rules may be found at [www.arrl.org/contests](http://www.arrl.org/contests)

Contact WB4QIZ, Doc, if you are interested 336-420-0170 mobile [dholliday@triad.rr.com](mailto:dholliday@triad.rr.com)

**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) & 444.275 (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 336-245-5740; or visit our web site at [www.w4nc.com](http://www.w4nc.com). Club email is to info -at w4nc.com.

Officers for 2012 are:

President: Tim King AG4RZ

Vice-President: Jerry Minor K4GW

Secretary: Don Edwards WS4NC

Treasurer: Henry Heidtmann W2DZO

Newsletter Editor: Don Edwards, WS4NC

**To join our list server send a blank email to [w4nc-subscribe@egroups.com](mailto:w4nc-subscribe@egroups.com)**

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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.

## Shelby Hamfest

by Don WS4NC

It was a quiet half-week at Shelby this year. I say half-week since in order to hold your spot from last year you had to pay the camping fee for the entire week, so this year John Kippe N0KTY and I went down on Wednesday. Dave Ramsey KJ4OIL joined us on Friday night.

At least it was quiet until the late Saturday afternoon storm came through, dropping ponderous amounts of rain and lightning so strong we were writing out our last wills. Rivers of water were gushing through the grounds but we all had plenty of warning so everyone had sealed their gear and themselves tightly against the storm. Maybe because of the storm Sunday was a very light day.

We stayed in the Kippe Kamper, a nice motel room on wheels. Sadly I don't think the maids have been through in a while and I didn't get a chocolate mint on my pillow. But the AC was good and the camper was dry through the storm so we were mostly happy. The shower broke on Saturday so Sunday we were a little stinky, but no one complained.

Sold most of my stuff before the main event really started on Saturday. One item I sold was a very clean Hammerlund SP-600 in the cabinet - I hated to sell it but it took three men and a boy to move the humongously-massive thing. Mostly I stayed close to our booth so I couldn't buy anything - but still brought some goodies home. Mostly test gear.

Next year's Shelby may or may not be at Dallas. I think the Dallas location is much better than the old fairgrounds. There isn't much indoor ac space at Dallas but then there isn't **any** indoor air conditioned space at Shelby. And the fairgrounds tried to extort



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very high prices - this really isn't a rock concert and people aren't going to pay \$20+ for admission. I don't know what the fairgrounds thought was a fair price for admission but their facilities just weren't up to that. Even Charlotte isn't up to that. I hope we stay at Dallas.

On the other hand, if it does move back to Shelby I'll get to see another "**Running of the Hams**". Seeing short, fat, old men sprint full-tilt boogie when all released at the specified hour to claim their own hot spot of soil is kind'a funny. I'll probably be one of them.

Prices were down at Shelby, at least for things that actually sold. Some asking prices were still high but the economy seemed like a good excuse to bring prices down. And that seemed to bring sellers into line with buyers more. Which brings me to . . .

## The Swan 250 Effect

In 1967 I bought a used Swan 250 6-meter rig for \$250, essentially the going price then. A 250 for 250. I don't usually have a good memory for model numbers and prices but I noticed that every hamfest Swan 250 I saw for sale until perhaps the year 2000 the asking price was \$250. I also noticed that most of those overpriced Swan 250s went back home with the same owners.

It seems ingrained into most hams that if they paid \$X for something it will still be worth \$X two, five, ten even twenty years later when they try to sell it. I think that is fallacious thinking. Your enjoyment must have been worth something, not to mention the wear and tear of your use. Even if it went into a box and stayed there technology has changed and better stuff for a lower price is probably available today.

Computers are the best example of price deflation. Even if you ordered the latest-greatest-computer-there-ever-was, by the time it arrived at your door it was outdated, maybe even obsolete. And to rub salt into the wound the newest-greatest-computer-there-now-ever-was now costs less than you paid for the obsolete model.

I've seen so many ham rigs show up at a hamfest and the sellers stick to very high asking prices even

to the point of stubbornly taking the rig back home only to bring it back to the next hamfest and repeat the process. Over-and-over, *ad nauseam*.

Yes you can get more selling on eBay but selling on eBay is a job. Which brings me to . . .

## Selling on eBay

Every item I sell on eBay usually has no less than a hour behind it just in pictures, listing, answering emails, packing it well and then shipping. Usually more like 5-10 hours when cleaning, testing and repairing are involved. For little items we have actually kept track of time and the average time for the total sale is a little less than 15 minutes based upon a large number of items sold divided by the time involved, and that was essentially a production line basis.

The best way to get a good price on eBay? Start with a really low price - like \$9.99 for your HF rig. People love a bargain and will fight once they are involved. While it takes two buyers to tango, once they get emotionally involved the cost becomes secondary.

Start at a fair but moderate price and you will likely get 1 bid. This completely bypasses the emotional response. Do a reserve auction and you'll probably keep whatever it is you are selling - and get to pay listing fees for the experience. I will not bid on a reserve auction, nor will most eBay buyers. Experience tells us that the reserve price is no bargain.

I have a rule about auctions - "it doesn't matter if you are the buyer or the seller - some days you are *the Dawg* - and some days you are *the hydrant*." Over time it averages out. But there is always the chance that an auction will not work the way you want. You just have to take it with good humor and go on.

Starting with a low price can be a nail-bitter because most bids don't happen until the last minute. Think about that from the buyers point of view. When one bids, it is out there waiting for someone to raise it - bidding at the end means less time for someone to raise your bid. esnipe.com is a great buyer's tool but describing that requires more room than I have this month.

Sometimes you get hurt doing starting at a low price - I have been. But then I have sold some parts units (advertised as non-working parts units) for way more than a working unit is worth. It makes no sense but with a lot of sales it averages out. Best prices usually happen with an auction ending on a Sunday night too, so timing is an issue.

And then there are eBay and PayPal fees. Because of sellers abusing shipping fees, eBay now even charges sellers a percentage of what you charge for shipping. No it is not fair but there is nothing that you can do about it. Eventually eBay will so abuse their sellers that a serious competitor will come along. Until then they are the only serious game in town.

A good rule of thumb is that the total charges from eBay and PayPal will be about 15% - 20%. And then there are the scam artists - it is hard not to be occasionally taken by an unscrupulous buyer. eBay's feedback system even favors the buyer which is weird. Beside complaining there isn't much you can do about it.

When you go to pack something the most expensive way to go is to get an old box and scrimp on packing material. One item damaged in shipping is a big deal. I go through about \$1200 of big-bubble bubble wrap a year. It comes in giant rolls about 6-feet high and 4-feet wide. It works out to about \$0.25 per square foot - if you think that's high go to Wally-world or an office supply place and calculate the price per square foot. I've not found anything cheaper that works as well. There really needs to be 2-inches of padding all the way around. Real padding - not crumpled newspaper.

Even the best packed item can get damaged in shipping and insurance will not cover your negligence (or stupidity to be blunt). Even if insurance does pay (and don't think that is an easy or speedy process!) you don't get the money back on shipping which is unfair. Get over it - that's the system. Plus you'll lose your eBay/PayPal fees.

There is a certain 3-letter shipper that I won't use. My comment about them is that you should take the item to the crusher first. The outcome will be the same and it'll fit in a smaller box. My preference is USPS Priority Mail for small packages and FedEx Ground/Home for most everything else. These

seem to be the most careful handlers, anything that goes by USPS, well the government takes a dim view of any scams. You won't get anything back but the scammed may get an offer of free room and board.

Hamfest prices are really down. I saw a Yaesu FT-301 with power supply sell at Shelby for \$100. It sat there all day Saturday with \$150 OBO on it. I heard about it but by the time I strolled up to buy it I was a few minutes too late. It's an old radio from the 1970's, one that I've always admired, but really it was fair price for both buyer and seller since it was there all day and nobody negotiated on it. And it is a time bomb since major parts are not available.

All of this about eBay is to say that eBay prices are variable, a fair amount of hassle and the hidden costs are more than you may think. You would have less trouble just going to a hamfest and selling at a reasonable price. Plus hamfests supports local clubs.

Buying on eBay has advantages and disadvantages too. There is a long story on how to buy on eBay. I may write more about that another month. The quick and short story is that whatever you want can be found there. Unless you are sure of the seller you should assume it doesn't work and will need something. Look at a seller's feedback - and make sure it is the feedback as a seller and look at the items sold too. It requires a little research on your part.

Most good sellers, at least those who have been around a long time, will work with you on a sale and they really do try to accurately describe the item. It is in their best interest. A good seller is one that has been around for more than a year and has near 100% feedback and has sold a fairly large number of items. I would not buy an expensive item from a new seller, or one with very much negative feedback. You do have to read the feedback carefully - some buyers will try to extort a seller with feedback - more than you might think.

Maybe in another month I'll expend on the eBay theme - it is a big part of ham radio now. I just don't have to the room to this month to hit more than the big highlights about eBay - especially as a buyer.

# FCC Testing

by Dale, WB9SAL

## Last Testing Session:

**MICHAEL WAUSTIN KK4LCJ T**  
**GREGORY S TETRAULT KK4HSC E**  
**ROY M TURVILLE KK4LCK T**  
**SCOTT SMITH KK4LCL T**

Michael, Greg, Roy and Scott, allow me to offer all of you a hearty congratulations the on your New Amateur licenses, and Amateur License upgrade. I look forward to chatting with each you on the air.

**New FCC Testing:** Amateur radio testing for new applicants as well as upgrades will be given the 2nd Monday of every month, except December, prior to the FARC regular meeting. All test participants are invited to attend the meeting. The time is 6:30 PM and the place is the Red Cross building on Coliseum Drive in Winston-Salem. << Pre-registration is required via e-mail >>, listing the elements you wish to take and your phone number. You may pre-register or get additional information via e-mail to info -at- w4nc.org, attention Dale Mierisch WB9SZL. Replace -at- with the usual symbol. Other dates/times will be published as we schedule them.

*Dale Mierisch WB9SZL*  
*FARC VEC Session Manager*  
*1-336-766-9675*

## Monday Nights

The FARC main Club meeting is always on the second Monday of the month at the Red Cross except in December. The FARC business meeting is open to all and is on the third Monday of the month and is held at Old Staley's restaurant at 2000 Reynolda Rd at 7-ish PM.

**Business meeting:** The business meeting is held on the third Monday night at Staley's on Reynolda Road. The meeting starts at 7-ish and usually runs about an hour and a half. We have tried holding it at the Red Cross but the overwhelming choice of those who are present is that they would prefer somewhere where we can have food and drinks. The attendance at the third Monday

business meeting is anywhere from about 6 to as many 15 people. All are invited - we would love to have to move to a dedicated meeting room.

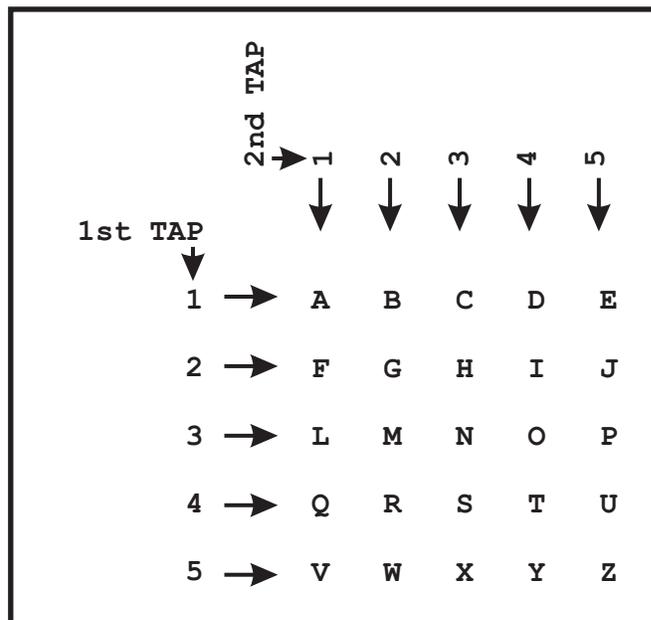
The contesting group generally meets on the fourth Monday of the month and that is also held at Old Staley's. All are welcome at any of the Monday night meetings. Old Staley's has a connection to FARC. Owner Bill Mowery is the nephew of W4ISH Clarence Mowery one of the prime founders of FARC.

## The Tap Code

by Don WS4NC

In watching any of a number of old movies you sometimes see people tapping out "code" to send messages through walls, jails, whatever. I could never make sense of what they were sending and I put that to the difference between American landline, the "railroad" code, designed for clicks and International Morse code, designed for beeps over radio - dits and dahs as they are called.

There is another code that is often used in movies, especially where prisoners communicate with each other. US Prisoners of War in Vietnam used this code to communicate effectively while confined in the "Hanoi Hilton". The POWs even used this when together for interrogation by tapping on their neighbor's thighs under the table. This is sometimes also called the Prisoner's Code or the Knock Code.



It is based upon a 5X5 grid and is fairly easy to learn. The history dates back to Ancient Greece, look up Polybius Square if the history is important to you.

Obviously with 25 letters one has to be dropped - the lucky letter is 'K', a 'C' is used in its place. K was likely the choice probably because it would have been the 6th letter in the second row and that made it easier than dropping a letter in the middle of a row. That and there may have been some interesting transition history through Latin, I'm not sure. The Code has been modified for multiple alphabets - even Japanese - so it has a long and storied history.

The first tap is for the row, 1 for A,B,C,D,E for example; the second tap is for the column. If you memorize A,F,L,Q,V you have the first letter of each row. "All Friends Like Quick Victories" is my mnemonic - there is probably something better out there. I'm not sure how numbers were handled.

While I have no practice at this, I suspect that this may be easier to copy than to send since you can quickly get the row and then just spell to the correct letter. Sadly, I suspect that for me I still can't hold the letters in my head very well - I really need pen and paper to copy anything, even if you spell it out in English..

Whilst discussing this at Shelby Hamfest this year someone asked me if I had personal history to use the "Prisoner's Code". Sorry, no experience here - but I will be alert to the next time I see this in a movie and see if that's what they are using.

## Forsyth County ARES

*by James WA4NOY  
Forsyth County EC*

### From August Newsletter:

On Saturday and Sunday, September 15 and 16, an estimated 1,600 cyclists will ride routes ranging from 5 to 100 miles in this year's Tour to Tanglewood, an MS ride. It's the largest annual public service and field training activity for Forsyth County hams.

The new route maps haven't been published yet. Based on last year's operation we'll need 19 operators on Saturday

and 17 on Sunday to provide radio coverage for the event's directors, support vehicles and rest stop crews. Net control stations and mobile operators will have full-day shifts. Rest stop operators work while their assigned rest stop is open - 2, 3 or 6 hours depending on route position. So volunteer for the weekend, for one day, or for a few hours as your schedules permit.

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Eight hams have signed up already. Join the crew by emailing one of the following: Jim Mansfield (Forsyth ARES EC) wa4not <at> arrl.net -or- Tim Yarbrough (AEC - planning and operations) kf4hhg <at> gmail.com. Or check into the Thursday evening ARES nets on 145.47 (T100), or sign up at the August or September Forsyth County Radio Club meeting.

### **ARES Net Report for 16Aug2012**

Net Control Station: WS4FC (op WA4NOT)

Check-ins: WK4CW, KG4ECI, AF4XC, KG4JWU, KG4FGC, KF4EOD, AK4D, N4EY, NA4P, KJ4VGT, WA4ZKI, KE4ZFN, WF4DD.

Topics: WA4NOT indicated we are doing well on volunteers for the Tour to Tanglewood but still need more for both days.

Training: WK4CW discussed North Carolina Emergency Management activation levels and how it relates to ARES activations.

Traffic: None.

Net time: 20:30-21:01.

### **ARES Net Report for 23Aug2012**

Net Control Station: WS4FC (op WK4CW)

Check-ins: KG4ECI, AF4XC, KG4JWU, KF4EOD, AK4D, WB9SZL, WA4ZKI, KC4WSK, WA8IHW, WB4QXG, NC4KT, KF4HHG, KJ4ENM.

Topics: WK4CW asked for more net control ops for our weekly ARES nets; still asking for about 6 more volunteers for the Tour to Tanglewood.

Training: WK4CW brought a brief lesson on Cyclones, including all the different types, different names used in different countries, and definitions of each.

Traffic: None.

Net time: 20:30-21:05.

## ARES Net Report for 30Aug2012

Net Control Station: WS4FC (op KG4FGC)

Check-ins: WA4NOT, KG4ECI, WK4CW, KJ4ENM, AF4XC, WB9SZL, N4EY, NA4P, WF4DD, WA4ZKI, KC4WSK, KE4ZFN, KF4EOD, W4KG.

Topics: WA4NOT reports September will be a busy month for ARES in NC; still need volunteers for Tour to Tanglewood.

Training: None.

Traffic: None.

Net time: 20:30-20:58.

## ARES Net Report for 06Sep2012

Net Control Station: WS4FC (op KG4ECI)

Check-ins: WA4NOT, WX5AAA, AK4D, KF4EOD, WA8IHW, WB9SZL, WA4ZKI, KE4ZFN, AF4XC, KC4WSK, KJ4ENM, KG4FGC, KG4JWU, KJ4VSM, KK4KJJ.

Topics: WA4NOT talked about Tour to Tanglewood plans now being finalized - still looking for about 4 more hands.

Training: The role of communicators during ARES activations.

Traffic: None.

Net time: 20:30-20:59.



## W4NC Live

*by Raymond Taber, WX5AAA*

Don't forget that you can see FARC meetings on W4NC Live. Meetings you missed, or if you are wanting to see a repeat of an especially gripping program, all are on [www.w4nclive.com](http://www.w4nclive.com). A second channel contains Club Special Events. Also all meetings since I brought [w4nclive.com](http://w4nclive.com) back are on youtube.

I have always wanted to do a short video series with ham radio operators and their equipment. So I wanted to ask if anyone who would be interested in inviting me over to their shack and show me how you use your radio and equipment at your shack, it would be my pleasure. I wanted to give an opportunity to show new and experienced hams in real life examples of how to set up a communications station up and operate it. So if you would like to me participate in me filming this series, please email me at [taberr@w4nclive.com](mailto:taberr@w4nclive.com) so we can arrange a time for us to get together.

Also I would like to give a big thumbs up and thank you

to Tim King, AG4RZ for doing a great job working with me in the filming process of the meeting.

## Around FARC

### K4VGU Monroe Baran

Monroe may be a familiar name to older members of the Club. Monroe is 94 and hasn't been active in ham radio for long time. He is currently in hospice care and is in stage-5 cancer.

### Kris KB4MV

Kris has been missing a bit this summer due to knee surgery. Hopefully he can make it to the September meeting.

## Richard Lee Howell, AE4RH-SK

Richard "Rick" Lee Howell, 56, a resident of Archdale, passed away Wednesday, August 1, 2012. He was born November 22, 1955 in Forsyth County, NC to the late John Howell and Helen James Howell and was raised of the Baptist faith. He was employed with PPG Industries, in Lexington, for 27 years. He was a former leader of both the Cub Scouts and the Boy Scout for Pack and Troop 703, respectively. He volunteered his time as a firefighter and paramedic at the A-R C-H Fire Department, Station 33. He was a passionate storm chaser for the National Weather Service and a dedicated Amateur radio operator. He is survived by his wife Cheryl Glenn, whom he married on August 9, 2003. Also surviving are his sons Chris Howell and Bradley Howell, his wife Erin, and their mother Cathy Prevette. A celebration of Rick's life will be held at Cumby Family Funeral Service in Archdale, from 2 until 4 pm on Saturday, August 11, 2012 Memorials in Rick's memory may be made to the Boy Scouts of America Old Hickory Council at 6600 Silas Creek Parkway, Winston Salem, NC 27106.

*From GARA Feedline August, 2012*

### W4DGJ-SK

### George H. McBride

George Herman McBride died peacefully at Hospice at the Meadowlands in Hillsborough, NC

Forsyth Amateur Radio Club, Inc.  
PO Box 11361  
Winston-Salem, NC 27106-1361  
336-245-5740

**Winston-Salem Hamfest  
Saturday, October 13, 2012**

on August 21, 2012, after a brief illness. He was born on February 15, 1918, in Lyons, GA to Addie B. Elliott-McBride and George H. McBride, Sr.

George spent his early years in Lyons before attending Georgia Tech in Atlanta. He left to join the Army Air Corps (now Air Force) at the beginning of World War II. During the war he flew several different types of aircraft, including the P-38 fighter, piloting many dangerous missions while taking aerial photographs of operations in the Pacific Theater. At the end of the war, he left the service as the youngest lieutenant colonel in the Air Corps.

During his training in Colorado Springs, George met Grace Virginia Rogers from Amarillo, TX. After a whirlwind courtship, she would become his wife of 57 years until her death. After the war ended, the couple settled in Amarillo where they lived for seven years with their two young children. Then George joined Western Electric Company as an electrical engineer, a position he held for 32 years. The family lived in several different cities throughout the U.S. before settling in Winston-Salem, NC. In 2003 after the death of his wife, George moved to Hillsborough, NC to live with his daughter.

George's lifelong hobby of ham radio (W4DGJ) provided him with many years of enjoyment and the opportunity to make friends all over the world. He had one of the early licenses granted by the FCC and worked as a radio station engineer in college. He was a member of numerous state, national, and international ham radio organizations. His command of Morse code was legendary among his peers. He continued to talk regularly on his radio until his death.

George was predeceased by his wife Grace and his younger brother James Elliott who was killed during World War II. Left to cherish his memory are his daughter Amanda McBride of Hillsborough; his son Elliott McBride (Nancy) of Raleigh; two grandchildren, Thaddeus R. McBride (Lucy) of Washington, DC and Abigail McBride (Paul Goldstein) of San Francisco, CA; his sister-in-law Marcella R. Lanham of Amarillo; five great grandchildren; nieces; nephews; and numerous friends and loved ones around the world. He lived his long life with quiet dignity, absolute integrity, and a keen sense of humor that charmed everyone he met.

A memorial service and interment will be held at a later date at Arlington National Cemetery in Washington, DC. Memorial contributions may be made to the Grace and George McBride Scholarship in Music, UNC School of the Arts, 1533 S. Main Street, Winston-Salem, NC 27127, or to a charity of one's choice.

## **Moment of Zen**

Well, maybe very little Zen for this month, I'm out of room. November is the HomeBrew Show-&-Tell so please be getting something ready.

*73, Don WS4NC  
FARC Newsletter Editor*