



Mecklenburg
Amateur Radio
Society™

MARS News

June 2013

Volume 64, Issue 6

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Upcoming Events

- ♦ Field Day: June 22nd & 23rd
- ♦ Lake Norman Excursion: Saturday, July 13th
- ♦ Charlotte Motor Speedway Time Trial Series for CCTA: Wednesday, July 24th
- ♦ Bike MS: Breakaway to the Beach: September 21st & 22nd

See www.ridemaps.com for more information on these events!

PREZ SEZ - A LETTER FROM THE PRESIDENT



Andy Hawkins (K4GKK), President

Hello fellow members,

Here is hoping that your June has gotten off to a good start and that you are busy releasing and collecting electrons into the ether in the name of amateur radio. I hope that whatever mode you are using, be it HF SSB, CW, Digital, VHF, FM or SSB, it is producing good results and your contact log is increasing in leaps and bounds.

I would like to express my thanks to all of you for the great turnouts we have been having at the monthly club meetings. This shows that we must be doing something right, though we are open to ideas for future club meetings that can be fit into a 45-60 minute time slot.

June's meeting will be the week immediately following the ARRL field day exercise and we plan on discussing the weekend's highs and lows and having a montage of photos projected for all to see. We will also be voting on the upcoming fiscal year's budget.

This year, W4BFB will be participating in the ARRL Field Day at Wilgrove Park, 7750 Jim Harper Lane (off Wilgrove-Mint Hill Road), Mint Hill, NC. This address should appear on your GPS or phone navigation system as the park has been around since 1974. This club is returning to this familiar site after an approximate 3-year hiatus at the Belk Scout Camp in the far reaches of Mint Hill. The reason for the return to the park is to give ourselves a more public presence and to hopefully promote interest in our wonderful hobby.

This year we are going to try for four stations, including the GOTA station. These will be HF SSB, CW and Digital. We are planning to start setting up the towers, tents and RV on Friday afternoon after 2:00 PM (this is a rule set by the ARRL). We would like for as many of you that can help set up turn up for this important part of the event. I have had sign-up sheets sent out via a mass email. These sign-up sheets cover both setup and tear down, operating times and picnic participation. The picnic sign-up sheet is quite important as we need to know how many people are planning to have lunch with us on Saturday around noon so that we can provide enough food for all. We have already started preparing for the weekend's fun by checking antennas and preparing various press releases.

We hope to improve on our score from last year, **BUT** that is minor to the exercise; we are there to prove we can set up and operate in any emergency event, coordinate the effort as efficiently as possible and **HAVE FUN**. One thing I would like to see is if someone who has not operated HF before expresses a wish to do so and the person who is the assigned operator for that time slot share a few contacts and let that person have a go and be an Elmer to them. This does nothing but good to foster camaraderie amongst the members.

One word of caution - the weekend of field day is generally hot and sweaty with a possibility of thunderstorms. Please be prepared and bring hats, gloves, etc. to keep yourself comfortable. The club will have drinks available on Saturday and Sunday. Bring your own on Friday.

Well, that about does it for this month, except to remind you that if you have a small home brew project you wish to share with the membership, bring it along to the next club meeting and show it off. The potato gun I brought to the last meeting was adapted from an article in the March 2009 QST by W4SSY.

Best 73 -
Andy Hawkins, K4GKK

PACKET RADIO UPDATE

Greetings Packeteers!

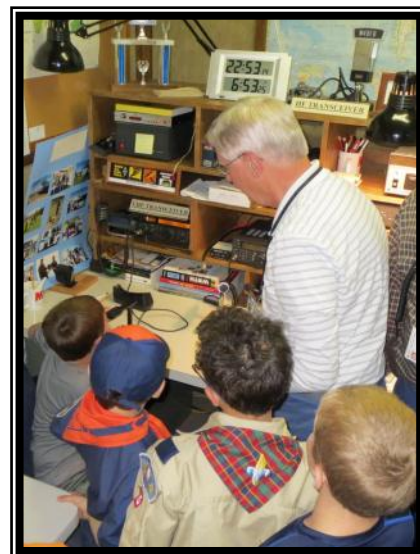
The W4BFB Packet Radio BBS is underway with updates that will be coming soon, which include some new features. As we test new software (yes, new) that gives us more features, all BBS users will be able to send WinLink 2000 RMS Messages directly through the BBS! This means you won't have to connect to an RMS Gateway to deliver your messages to other WinLink 2000 users! You'll be able to accomplish it all through one system. One additional work-in-progress will allow you to send and receive emails using the W4BFB BBS. These emails would originate from our emailing system! I'll keep you posted as to when the features are available and how to use them. Finally, if you haven't already visited our club's Web Version of the BBS for access to real-time packet radio, our address has changed to a more familiar one! Please visit our main packet radio club Node and BBS at <http://packet.w4bfb.org>.

NOTE: You will need a username and password to access the "Terminal" page where live packet activity happens. Contact me for your own personal login. You must be a licensed radio amateur to gain access to the Terminal located on the website.

73,
Seth O'Neal
KF4LLF@gmail.com

BOY SCOUTS VISIT WITH MARS

On May 8, 2013, MARS club members hosted Tiger Cub Den 14, Pack 8, which is based at St. Matthews Catholic Church. The group of 1st graders qualified for a radio patch. The Tiger Den visit and presentation took place in the MARS radio room located in the Red Cross building on Park Road. MARS club members contributed their respective expertise. John White, WB2NHQ gave a presentation on radio waves, Amateur radio, FCC frequency allocations, CW keyer operation and Amateur licensing requirements. George Hohas, W4GEH made arrangements with Den members and parents and got them talking on 2 meters. Paul Jones, K4VCF took pictures and answered numerous Tiger Cub questions. The Tiger Cub Den Leader, scout members, and parents were very pleased with the presentation and hospitality shown by MARS members.





*Mary Hunt (N4MH),
Chairperson*

PUBLIC SERVICE COMMITTEE NEWS - MARY HUNT, N4MH

In May and June, we supported the CCTA Cycling Events at Charlotte Motor Speedway. Thanks to: Auford Neal, KU4PF; Perry Garris, KF4UVL; Dave Holbrook, KC4YPB and Carol Spencer; Tom Hunt, KA3VVJ; Charles Comerford, KK4HOK; Stefanie Comerford, KK4LZR; Stan Bagwell, AJ4ZL; and Bryan Ferdinand, K4NET for supporting this event.

On Saturday, May 18, we supported the MS Charlotte Walk. There were 1,000 walkers at the event that raised approximately \$152,000. We supplied radio operators at the rest stops and had SAG Vehicles on the route along with the route directors. This year we also had two bicycle mobiles on the route. Thanks to the following hams who volunteered for the event: Tom Hunt, KA3VVJ; Andy Hawkins, K4GKK; Kevin Keyes, K4YYD; Otis Pruitt, KB4UFO; Charles Comerford, KK4HOK; Stefanie Comerford, KK4LZR; Ray Weeks, N4APR; and Elena Maya-Scott, KS4OX. Everyone did a great job and we did not have any incidents.

Listed below are the upcoming Public Services Events for 2013 that are on our calendar. If anyone has an event that we need to put on the calendar, please let me know.

On a monthly basis, we support the **Carolina Cycling Time Trial Events** at Charlotte Motor Speedway. We are the track Marshalls and station hams around the track to ensure that there is no drafting and also for safety reasons. The remaining dates for 2013 are: *Wednesday, July 24 Wednesday, August 14 Tuesday, September 10*

On Saturday, July 13, the **Red Cross Lake Norman Excursion** will be held with the start point in Mooresville. John White, WB2NHQ coordinates the volunteers for this event.

September 21 and 22, 2013 will be the **MS Break Away to the Beach**. This is the largest Public Service event that we support each year. We leave from Monroe, NC on Saturday morning and the finish point on Saturday is Francis Marion University in Florence, SC. On Sunday, we have two start sites - Florence, SC and Green Seas, SC - finishing up at Sunset Beach, SC. We also have a start line on Saturday in Columbia, SC that is supported by the Columbia Amateur Radio Club. So mark your calendars early and plan to join us for this great event.

October 26, 2013 is the **Cystic Fibrosis Cycling Event** in Waxhaw, NC. Tim Slay, N4IB coordinates the volunteers for this event.

AMATEUR RADIO LICENSE EXAM SESSIONS - JUNE



The Fedora Amateur Radio SIG will be proctoring amateur radio exams on Saturday, June 8 at 5PM at the SouthEast LinuxFest in Charlotte, NC. The festival will be located at The Blake Hotel (555 South McDowell St). Technician, General, and Extra class license exams will be offered. The cost to take the exam is \$15. Please contact James B. Williams at (540) 449-2288 or send an email to vaioof@yahoo.com for more information.

There will also be a license exam session sponsored by the YCARS club in Rock Hill, SC on Saturday, June 15 at 9:30am. The exam session will take place at the YCARS Clubhouse (2119 Squire Rd, Rock Hill SC 29730-7593). Please contact Jason R. Starnes at (803) 980-2343 or jstarnes@gmail.com for more information.

AMATEUR RADIO LICENSE EXAM SESSION - AUGUST

Address:

YCARS Clubhouse
2119 Squire Rd
Rock Hill SC 29730-7593

There is an upcoming license exam session in Rock Hill, SC on Saturday, June 15, 2013. This event will be sponsored by the YCARS club. Testing will begin at 9:30am and walk-ins are allowed.

Contact Information:

Jason R. Starnes
(803) 980-2342
jrstarnes@gmail.com



Dave Bagwell - **KJ4SJY**
Kenneth Boyd - **K4DXA**
Frederick Carroll - **AJ4CN**
Don Eaves - **KJ4ATJ**
Ronald Ellis - **KI4YDQ**
Bill Harding - **K4AHK**
Mary Hunt - **N4MH**
Kevin Keyes - **K4YYD**

Charles Ogden - **KB9WCD**
Chuck Porter - **K4VZA**
Max Treece - **WG4Z**
Raymond Weeks - **N4APR**
Mike Wentz - **KE4EHC**
Dave Wentzel - **KD4ITI**
Ken Winston - **WA4OBO**



MEMBER SPOTLIGHT

John Correll, K2JMC, and his wife Debbie visited the club meeting in May and we were happy to get John's application and bring him on board as a MARS member. It's not often one runs across someone who was born, raised, and continued to live in Charlotte – a true native Charlottean – but John is just that. He is one of the regular voices checking in on the nightly 2 Meter 146.94 Net. He got his Tech license after passing his test during the September 2012 W4BFB VE session at East Baptist Church. He later tested in Gastonia where he passed the requirements for his General license. By trade, John is a commercial printer, but a 1995 robbery nearly took his life and that of his wife. He and Debbie were helping a friend close a restaurant one night when they were ambushed. John's life-threatening injuries and subsequent surgeries left him disabled. The robbers shot at Debbie, but missed. Their friend was shot, but her injuries were not life-threatening. John's interest in amateur radio started as a teenager in a way many hams developed an interest in amateur radio – CB. The interest waned because John was active in sports, playing highly competitive softball, which took him all over the country playing in tournaments. He also threw in occasional rounds of golf. Eventually, his interest in two-way communications returned in 2012 and he decided to study and take the Tech exam. He and Debbie are active in the American Legion and American Legion Auxiliary. He is a member of Post 262 and Debbie is President of her Auxiliary post. John is one of 1,100 members of the American Legion Amateur Radio Club, a national organization that requires members of the club to be a member of the American Legion. John is a 32° Mason and Shriner. The club welcomes John to the MARS family and congratulates him on his entry into the world and hobby of amateur radio.



Jerry Brewer, N4MIU

Jerry Brewer, N4MIU, moves on but he will still be around. In our last edition of MARS News, we announced that Jerry, N4MIU, was turning over the reins of Mecklenburg ARES to Tony Lewis, KE4VVF (more about Tony in a later edition of MARS News). While Jerry will be taking over as Emergency Coordinator of Union County ARES, we hope to see his continued involvement with MARS. We are glad he is keeping his membership in MARS and hope to see him, as his time and work schedule will permit. Jerry now lives Waxhaw, but his formative years were in Mint Hill where he grew up. He got an early introduction to amateur radio when his mother worked at Dixie Electronics in Charlotte. He got to know many ham operators and made the move to get into the hobby. He has been a ham for over 25 years. Jerry works as an HVAC service technician. Prior to working in the HVAC service industry, he worked as a two-way radio and closed circuit TV electronics technician. His interests in amateur radio are broad. In addition to ARES, Jerry enjoys HF, DX, UHF, and RACES. He is COML-trained. He is not alone in his family as the only amateur. His daughter, Johanna Purser, KJ4GOD, who lives in Indian Trail, has been a ham since 2009. Jerry has been involved in various aspects of emergency communications for many years and service to his community. This includes being a volunteer for the American Red Cross. Certainly, Union County's ARES gain is Mecklenburg's loss, but we will continue hearing him running a weekly net on the 146.94 repeater.

Here's a picture of the PCB we designed and then built to be mounted in each controller. The big Cap is bent over to fit in the controller rack.



Here's a picture of the assembly mounted in the controller. The Power Off board is mounted on the side of the controller right behind the Red Switch. The yellow LED is lit when the relay is turned on. The red push button switch allows an operator at the repeater site to do a POR without turning off the power supply.



Thanks to Earl Fortner for his checking of my schematic and PCB Layout so that we have several working boards on the first try. He is also responsible for assembling the boards and mounting them into the controllers.

We hope to sell our extra boards to others who use this controller.

Article credits: Dr. Bill Heybruck / WA2EDN

Picture credits: Earl Fortner / K4KAY

PREPPING FOR FIELD DAY 2013

In an effort to bring more attention to amateur radio and W4BFB, MARS President, Andy (K4GKK), has written a letter to local elected officials inviting them, their families, and friends to drop by Field Day in Mint Hill on Saturday, June 22. Letters were delivered to the Mecklenburg County Commissioners, City Council, Mecklenburg legislators, and the Mint Hill Town Council.

County Chairman, Pat Cotham, and Mint Hill Mayor, Ted Biggers, have been specifically invited to kick off Field Day by making third party contacts via one of the radios at the Field Day site. We hope this symbolic "ribbon cutting", as it were, will be a hook to entice local media operations to cover the start of Field Day.

North Carolina House Representative, Bill Brawley, whose district includes Mint Hill, was the first public official to notify us that he will be dropping by on Field Day.

MARS will have a short notification (500 words) in the Charlotte Observer Southeast Section on the Wednesday before Field Day (June 19). The Observer approved the submission at the end of May. The events section of the newspaper gets readership from those who are looking for things to do on the upcoming weekend and we hope Field Day catches their eye. Watch for it.

A news advisory will go out to local media on June 10. This will include the Mint Hill newspaper. Hopefully Field Day will get some notice in that newspaper. A follow-up notice will be sent to the local news operations on June 20.

Depending on what other events are taking place and other high profile stories breaking on this day, i.e., the murder of the week or multiple traffic fatalities, we have a good visual event to offer news assignment editors and reporters.

It's that time of year! Field Day is here!

We would love to have you join us for this very exciting and fun event. Come out and indulge in some great food and the chance to socialize with other hams, both at our site and over the radio waves.

Please visit www.w4bfb.org/fieldday for more information and to sign up for the various activities that will be going on throughout the weekend. These events include setup/tear down of our site, a picnic, and operating.



AMATEUR RADIO GETS VISIBILITY IN CHARLOTTE TV NEWS

MARS members were a resource for WSOC-TV news on June 2, when news anchor Tenikka Smith was looking for help on a story about storm spotters (SKYWARN) and relating it to the deaths of three storm chasers in Oklahoma.

Through the efforts of Mitch Barbato, KX4MB, Charles Comerford, KK4HOK, Bryan Ferdinand, K4NET, and Paul Jones, K4VCF, we were able to provide a trained club interviewee (our very own, Paul Jones) to discuss the SKYWARN training and what amateur radio operators do to serve the public.

The key point from MARS' standpoint is that amateur radio operators, who have been trained in the SKYWARN protocols, are NOT storm chasers. Paul explained that amateur radio operators shelter-in-place, in a safe environment, and report what they see prior to, during, and after storm impacts on their neighborhood.

Our advice, in the story, was to let the trained professionals chase the storms and not be tempted to shoot video with a camera or camera phone. Common sense should prevail.

The link for the story on WSOC-TV's web site is <http://www.wsoc.tv/news/news/local/nws-doesnt-train-encourage-people-chase-storms/nX9LP/>.



ARRL KIDS DAY

Saturday, June 15, 2013, is ARRL Kids Day! This is an on-air event to encourage young people (licensed or not) to have fun with Amateur Radio. It is designed to give on-the-air experience to youngsters and hopefully foster interest in getting a license of their own. It is also intended to give older hams a chance to share their station and love for Amateur Radio with their children. Kids Day always runs from 1800 UTC through 2359 UTC. Operate as much or as little as you like. Suggested exchange includes name, age, location and favorite color. Be sure to work the same station again if an operator has changed. To draw attention, call "CQ Kids Day."

Suggested frequencies:

10 Meters:	28.350 to 28.400 MHz
12 Meters:	24.960 to 24.980 MHz
15 Meters:	21.360 to 21.400 MHz
17 Meters:	18.140 to 18.145 MHz

20 Meters:	14.270 to 14.300 MHz
40 Meters:	7.270 to 7.290 MHz
80 Meters:	3.740 to 3.940 MHz





Don't forget about our partnership with CDXA and their Boneyard. They have a page on their website (<http://www.cdxa.org/boneyard.shtml>) for CDXA and MARS members to list their equipment for sale or swap. A maximum of 5 pieces of equipment can be listed on the Boneyard, per person, at any one time. Pictures of equipment are welcome. Equipment will be listed for a maximum of 180 days unless notified by seller that equipment has been sold or traded. After the 180 days, items may be removed from the list. Members wishing to list equipment can send the information to wb4bxw@gmail.com.

JOIN US FOR DINNER!

Come out and join us for dinner before the monthly club meetings and indulge in some great food and great conversations. We meet every month at Landmark Restaurant Diner around 5:00pm. The address of the restaurant is 4429 Central Ave, Charlotte, NC 28205.

See you there!



HAM RADIO FAMILY MEMBER TERMS

Here are some terms used to refer to amateur radio operators and their family members:

Ham - Radio Amateur

YL (young lady) - Lady Radio Amateur

OM (old man) - Gentleman Radio Amateur

XYL - Wife of a Ham

YL Fundamental - Mother of a Ham

OM Fundamental - Father of a Ham

Side Band - Brother/Sister of a Ham

Upper Side Band - Elder Brother/Sister of a Ham

Lower Side Band - Younger Brother/Sister of a Ham

Harmonics - Children

Crystal controlled - Getting Married

Silent key - Deceased operator



All articles for the July newsletter must be submitted to the newsletter editor at w4bfbeditor@w4bfb.org by **Sunday, June 30th!** Thank you for your cooperation.



MARS MEETING MINUTES: MAY 28, 2013

New Member: John Correll, K2JMC

Visitors: Debbie Correll; Steve Wrona, KK4RMM;
Kevin Schlege, AI4YQ

Andy brought in and showed the projectile gun he made to hang antennas. He encouraged other members to bring in some of their projects to future club meetings for a "show and tell" at the beginning of each meeting.

Meeting Topic: Raspberry Pi - by Patrick Fink, KK4DHM. It is a credit card size computer. It is relatively inexpensive and runs Linux and was designed for the schools to practice programming. Cases are sold separately. An SD card is used for storage. There is a link on the website for more information.

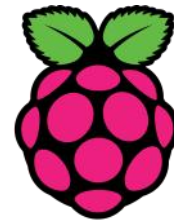
Other News: Tom Hunt reported that the club did well at the Hamfest. The June club meeting will be devoted to reporting on Field Day and sharing pictures from the event.

Field Day: Field Day this year is June 21-22 and is being held at Mint Hill Municipal Park. We will be running four stations this year: Phone, CW, Digital and GOTA. Sign up sheets are on the website for setup, take down, etc. This will be a fun time and we will make many contacts as well. A cookout will take place on Saturday June 22nd at noon as the official kickoff for Field Day. The club is providing hamburgers, hot dogs, buns, drinks and paper products. Those that plan to attend are asked to

bring a side dish. Speak with Mary Hunt for more information. There is a sign up sheet on the website for the picnic as well to let us know how many people will be attending.

Submitted by Sandra Jones, KK4DAW
Secretary MARS

**Official minutes available upon request.*



RaspberryPi



CLUB MEETING

The Mecklenburg Amateur Radio Society™ club meets on the last Tuesday of every month at 7:30pm. Our meetings are held at East Baptist Church (next to East Mecklenburg High School, near Conference Drive). The address is 6850 Monroe Road, Charlotte, NC 28212.

Everyone is welcome, even those who do not have their license yet! We love seeing new faces, so come out and join us and see what our club is all about!

June Meeting Topic: Field Day Follow-up



BOARD MEETING MINUTES: JUNE 4, 2013

Treasurer's Report:

Tom presented the treasurer's report. The budget was approved after revisions from last meeting.

Vice President's Report:

June club meeting will include Field Day pictures and discussions. Jeff Viscount will discuss the Bike Ride in August.

Secretary's Report:

117 total current paid members, including life members.

Committee Reports:

Repeater/Packet Committee: The committee met and got a lot accomplished. The 94 site took a lightning hit on Tuesday, May 27. We were running on back up equipment; the site was back up in 2 hours. Plans are in the works to swap out Spencer Mt. equipment as well as uptown within a few months and get everything up to new standards. Packet infrastructure is being upgraded but is not complete. We are still looking to do future improvements in the coming months.

Public Relations: WSOC-TV interviewed Paul on Sunday regarding SKYWARN activities and the role that Amateur Radio plays.

ARES: Tony, KE4VVF has been confirmed as the new Mecklenburg County emergency coordinator.

Public Service Committee: April-September will be CCTA. Lake Norman Red Cross Excursion is July 13. September 21-22 is the MS Breakaway to the Beach and the Cystic Fibrosis Ride is October 26. See www.ridemaps.com for more information.

Field Day: The board discussed the layout of stations for Field Day and security to allow Friday night setup. Dave volunteered to stay Friday night. Mint Hill Municipal Park, 7750 Jim Harbor Ln, Mint Hill NC is the address.

Submitted by Sandra Jones, KK4DAW
Secretary - MARS

**Official minutes available upon request.*

ASK YOUR ELMER

They say one of the best ways to learn something is to ask questions and some of your best resources are right within our club. These club members are willing to share their knowledge with you to help you become a better, more informed ham. Please email them with any questions!



Antennas	Bob Ferdinand, K9TMU; Bill Miller, KT4YE; Mike Wentz, KE4EHC
Digital Modes	Stan Bagwell, AJ4ZL
D-STAR	Eric Webner, K4FAN
ICOM Radios	We're still looking for someone to put here... let us know if it can be you!
Kenwood Radios	Bob Ferdinand, K9TMU; Bryan Ferdinand, K4NET
Packet Radio	Bill Newsome, AC4ZR; Seth O'Neal, KF4LLF
Ten-Tec	George Hohas, W4GEH
Yaesu Radios	Mitch Barbato, KX4MB

METROLINA 2-METER EMERGENCY NET™

Net Controllers

Sunday: Jerry, N4MIU

Monday: Bryan, K4NET

Tuesday: Stan, AJ4ZL

Wednesday: Dave, KJ4SJY

Thursday: Charles, KK4HOK

Friday: Don, KJ4ATJ

Saturday: Pam, N8PAM

*John, WB2NHQ, is presently covering Saturday night's net until further notice.

Join us for the Metrolina 2-meter Emergency Net™ every night at 9:00 P.M.! The primary frequency is our 146.94 repeater and the alternate backups are our 145.29 repeater or 146.52 simplex. The tone is turned off during this net.

Alternate Net Controllers

Bob, K9TMU

Carl, KJ4VLC

Jerry, N4MIU

John, WB2NHQ

Sandra, KK4DAW

Shelly, KJ4ATK

Stefanie, KK4LZR

*If you are interested in becoming an alternate net controller, please contact our Net Manager (Stan Bagwell) through email at M2MENNetManager@W4BFB.org.



JOIN US ON
THE AIR...
WE'D LOVE
TO HEAR
FROM YOU!

OTHER LOCAL NETS

Sunday

Mecklenburg Simplex Net,
8:30pm (147.505)

Thursday

UCARS 2m Net, 8:00pm
(145.390- PL 94.8)
(444.425+ PL 94.8)

Saturday

ARES Net, 7:00pm
(146.940-)

The Dixie Radio Pirates
Weekly Net, 8:30pm
(145.410- PL 136.5)

Nightly

Piedmont Emergency
Training Net, 8:00pm
(145.350- PL 131.8)

Rock Hill Net, 8:30pm
(147.030+ PL 88.5)

ECHOLINK/PACKET RADIO NODES

EchoLink: EchoLink is available for download on your computer through www.echolink.org, as well as for use on your smartphone (Android and Apple iPhone) through the app store. To access our repeaters, connect to **K4NET-L** or node number **625440**.

Packet Radio:

W4BFB & Local 1200 Baud Packet Radio Frequencies:

145.010 / 145.090 / 223.400 / 446.500

W4BFB-9 = Charlotte BBS / W4BFB-2 = World Wide Chatroom

(All W4BFB packet nodes have links to all listed frequencies)

More info: <http://www.w4bfb.org/packet.htm>



EchoLink application on a smartphone.



Ham Happenings

June 2013

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4 MARS Board Meeting 6:30pm	5 CCTTA Time Trials 6:00pm	6	7	8 Winston-Salem Classic Hamfest
9	10	11	12	13	14	15 ARRL Kids Day
16 Happy Father's Day!	17	18	19	20	21	22 Field Day
23 Field Day 30	24	25 W4BFB Club Meeting 7:30pm	26	27	28	29

See more at <http://w4bfb.org/calendar>

Mecklenburg Amateur Radio Society™

Mecklenburg Amateur Radio Society
ATTN: Stefanie Comerford
2425 Park Rd, Room 023
Charlotte, NC 28203

Phone (Call or Text): (704) 750-9QSO
Email: w4bfbeditor@w4bfb.org



Stefanie Comerford
Newsletter Editor
KK4LZR



Visit us on the Web!
www.w4bfb.org

Club Repeaters

Input	Output	Offset (KHz)	Tone
146.34	146.94	-600	118.8
144.69	145.29	-600	118.8
144.63	145.23	-600	118.8
222.8	224.4	-1600	None
449.6	444.6	+5000	118.8

Club Officers & Board of Directors

President

Andy Hawkins, K4GKK
k4gkk@w4bfb.org

Vice President

Mitch Barbato, KX4MB
kx4mb@w4bfb.org

Secretary

Sandra Jones, KK4DAW
kk4daw@w4bfb.org

Treasurer

Tom Hunt, KA3VVJ
ka3vvj@w4bfb.org

Directors

Charles Comerford, KK4HOK
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Bryan Ferdinand, K4NET
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