

JUNE 2016

HPARC NEWSLETTER

High Point
Amateur Radio
Club



JUNE MEETING

As we normally do, the program for the June meeting will be Field Day. We will discuss our plans for the upcoming event. Please plan to attend.

David Macchiarolo gave the program for the May meeting about solar propagation.

Field Day will take place

at the Moore Farm as usual despite the passing of Mrs. Moore. The family has given the HPARC permission to use the property as we have in the past.

We have lost another Ham. Richard Skinner, AB4FV formerly WD4EMZ, became a

silent key on May 26. Richard was active in the HPARC during the 1970's. He was 91.

The July meeting will fall on the 4th. Rancho's will be closed for the holiday. We had discussed meeting at a member's house. Or we could postpone

Meeting continued inside...

FIELD DAY 2016

Although Mrs. Moore passed away on April 23, Field Day will still take place at the Moore Farm in Jamestown where we have had Field Day for several years now.

The dates for this year's Field Day will be June 25 and 26. We will meet for breakfast at Biscuitville at 8:00 a.m., and after a short breakfast, will start setting up at the Moores for Field Day after 8:30 a.m. The official start for Field Day is 2:00 p.m.

Our club picnic will be around 6:00 p.m. on Saturday. Spouses, family members and friends are welcome to join us. Hot dogs are the normal main fare, so prepare accordingly if you prefer something else. We plan to pass around a list at the meeting for members to sign up for food items to bring.

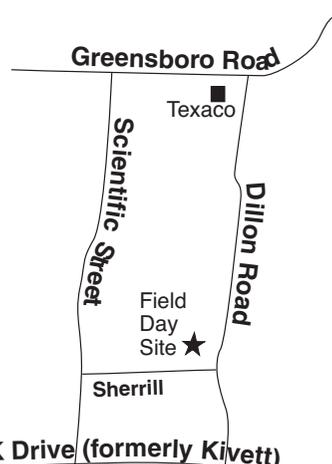
We will use laptops, provided by Warren Gallemore, to

log our contacts. We have been using the program SQUIRL for logging contacts. You could download this program on your home computer if you want to work with it before Field Day.

onto Dillon Road. Come about a mile, and turn right onto Sherrill Road. Moore's farm will be the first driveway on your right. Using one of the Internet map programs, use 3139 Dillon Road as your ending destination. Hope everyone can make it.

Remember to bring your radios, extension cords, chairs and anything else you can think of that we may need.

If you have any questions, call or email Mark McMahan or one of the HPARC officers (see back of newsletter).



Directions to Field Day: from MLK Dr. (formerly Kivett Drive), turn onto Scientific Street. Go about .2 of a mile to Sherrill Road and turn right. Moore's farm is on the left just before the stop sign. Coming from Jamestown, turn

HPARC Meeting June 6, 2016

Rancho's,
10463 North Main St,
Archdale, NC

Meal at 6:30 p.m.
Business meeting at 7:00 p.m.

SNOCO HAMS, THE 'UNCLUB'

"SnoCo Hams is not a club, per se, it's just a group," says Eric Nordin, AD7BF. "There are a few of us, [we] take care of the website, get breakfast, get together second Saturday of every month. It was actually born from some frustration with oh, I think, some political posturing and stuff in the club and the late Bob Huson, WA7HYD, original founder decided, "Hey, you know, let's start a website and an email reflector that anybody can join, and I'll get that going and just

stand out of the way. And you know those will be tools for people to use and it wasn't long at all after that hey, let's just get a monthly breakfast together going. No politics, no club meeting, no business, just a bunch of Hams who get together around the table and circulate and talk and toss ideas around. And it's grown. We had around a dozen people the first couple of meetings. It's grown and typically we have anywhere between 20 and close to 40 people who show up now. It's a neat thing."

Nordin said that Huson originally formed the group to complement local clubs, not to compete with them. In fact, he said, many local clubs have benefited from the intermingling of members at the breakfasts. He also mentioned that a major part of the original email list was lost when Houston passed away so if you are interested in the group please visit their website at www.snocohams.net.

—*Amateur Radio Newslines*,
Report 2010, May 6, 2016

YOUNG HAM WINS FIRST-PLACE SCIENCE FAIR TROPHY WITH MAG LOOP ANTENNA ENTRY

A 10-year-old ARRL member from Snoqualmie, Washington, took first place in his grade and division for a magnetic loop antenna project he entered into the Washington State Science and Engineering Fair (WSSEF). Dragan Tuip, KG7OQT, was among the more than 700 presenters at the fair, held April 1-2 in Bremerton. A 5th grade student at Yellow Wood Academy in Mercer Island, his project, "Modular HF Mag Loop Antenna," stemmed from his desire for a compact antenna to use in his room with his HF transceiver — a flea market bargain. According to his dad, Martin Tuip, KG7HAX, Dragan built the antenna himself and successfully tested it by making JT65 contacts with Japan and Georgia. The 59th annual

WSSEF marked Dragan's science fair debut.

"When they called my name during the award ceremony, I was stunned! I was amazed!", he told ARRL. "I learned that not everything is always the best, and some things still have room for improvement. I had several people already ask me if they could buy the antenna." Licensed at age 8, Dragan wants to earn DXCC before he turns 11. He eventually hopes to market the antenna.

The magnetic loop design he entered into the science fair consists of a 10-foot circumference loop of LMR-400 coaxial cable with a 2-foot circumference loop of solid copper and a variable capacitor for tuning housed in a central enclosure. According to Dragan, the antenna is usable on 40, 30, 20,

17, and 15 meters with a low SWR. The antenna can handle up to about 10W for 100 percent duty cycle modes, and up to 15W PEP for SSB.

The need for an indoor antenna arose after his mom let it be known that she didn't want any new holes drilled in the house nor any more visible antennas. Dragan had seen some mag loop-style antennas in articles his dad had been reading and asked if something like that might fit in his room.

"He ran propagation tests using WSPR with my G5RV as reference, and the mag loop was about 80 percent as effective at a fraction of the size," Martin Tuip said.

—*The ARRL Letter*,
April 28, 2016,

Rick Lindquist, WW1ME,
Editor

The HPARC Newsletter is published monthly by the High Point Amateur Radio Club (HPARC) for its members. The HPARC Newsletter serves as a source of information about Club activities, and general news items of interest to Amateur Radio. Opinions expressed herein are not necessarily those of the HPARC or its officers. Material in this newsletter may be reproduced provided the HPARC is properly credited.

Complimentary issues of the HPARC Newsletter are available by writing to the HPARC Newsletter at PO Box 4941, High Point, NC 27263 or emailing your request to w4ua@arrl.net. Subscriptions are available to non-members for \$12.00 a year. Contributions and letters/emails to the editor are welcome.

Membership is open in the HPARC to all licensed Amateur Radio operators. Membership is \$24.00 a year. Associate membership is also available to those who are interested in Amateur Radio but who do not currently hold a license. Associate membership is \$12.00 a year. Student membership is also available for \$12.00 a year.

The High Point Amateur Radio Club meets the first Monday of each month at 6:30 p.m. at a local restaurant announced in the newsletter. The business meeting starts around 7:00 p.m. followed by a short program of interest. Family and visitors are welcome to attend. For more information, please call or email one of the HPARC officers listed in this newsletter.

...Meeting continued from cover

the meeting a week and meet on July 11 at the restaurant. Think about what the club would like to do, and we will discuss it at the June meeting.

There is a lot going on in the HPARC. We are seeing quite a few new faces joining for our monthly meetings. Field Day is just around the corner—our biggest event of the year.

Even our breakfast crowd on Saturdays is growing in number. If you are not involved in some HPARC activity, you have to ask yourself, “Why?” Come join us at the club meet-

THE FUTURE OF AMATEUR RADIO

It's not very often that new Amateur Radio operators are younger than one of those radios in your shack. But it does happen. And on Saturday, May 28th, the W4VEC volunteer examiner team in High Point, NC was happy to help 11-year old Melinda “Mindy” Riewe (now KM4UHV) of High Point, NC successfully pass the Technician exam and obtain her license.

Her dad, Chris Riewe KM4RQM, is a recently licensed

Ham himself. Shortly after Chris was licensed, he and Mindy came out to operate during a recent special event station/NPOTA activation in our area, the N4G Guilford Courthouse National Military Park special event station (NPOTA MP04). While under supervision, Mindy made several contacts for the station, and became interested in Ham Radio.

After weeks of studying, Mindy came to our May 28th testing session in High Point,

NC and methodically completed her exam. While the VE team was grading it, she was understandably nervous. However, when we announced to the room that she had passed, not just the VE team but all of the other candidates broke into applause!

Congratulations to Mindy, and be sure to say “hi” to her if you hear her on the air!

—David Macchiarolo,
AJ4TF, W4VEC Session
Manager, High Point, NC

RARE LEE de FOREST AUDION DONATED TO ARRL

An ARRL member from Virginia has donated a rare de Forest “round bulb” Audion vacuum tube to the League, which has paired the ground breaking triode with a de Forest receiver of similar vintage. Walt Bain, W4LTU, recently wrote ARRL Headquarters to see if the League would give the antique tube a home. Radio pioneer Lee de Forest filed his first patent for the Audion in 1907, describing it as a detector of sound, and he is generally credited with having invented the vacuum tube. First used as the detector in the de Forest Audion Receiver, the Audion subsequently was heralded as the world's first electronic amplifying device. Bain, who is 86, said he inherited the Audion from his father, George Bain, a graduate of Wesleyan University in Connecticut in the 1920s, who went on to work

for Westinghouse.

This particular Audion likely dates back to the early 1910s and appears to be a somewhat later version of the device that de Forest had submitted on his patent application a few years earlier. An intact Audion such as this one is considered extremely rare.

ARRL Lab Test Engineer Bob Allison, WB1GCM, who curates the League's museum collection, accepted the Audion and had it installed on the League's own de Forest Audion Receiver, which lacked a tube. “Each year, we have about 2000 visitors to the Lab; they will get to see that tube,” Allison said. The League's Audion Receiver bears the patents of de Forest's Radio Telephone and Telegraph Co.

In developing the Audion, de Forest had built on the work of John Ambrose Fleming, who invented a two-element vac-

uum tube in 1905. De Forest discovered that applying a radio signal to a grid instead of to the filament, or cathode, would yield a more sensitive RF detector. De Forest came up with the idea of using a series of Audions to enhance their amplifying capabilities, an attribute American Telephone & Telegraph company capitalized upon, after securing de Forest's patents.

In time, vacuum tubes supplanted solid-state mineral detectors in radio receivers, although in a “what goes around, comes around” turn of events, solid-state devices called “transistors” replaced the vacuum tube in the 1950s and 1960s. Today's iPhones have the equivalent of 2 billion transistors packed inside.

—*The ARRL Letter*,
May 12, 2016,
Rick Lindquist, WW1ME, Ed.



High Point Amateur Radio Club
PO Box 4941
High Point, NC 27263

HPARC JUNE CALENDAR

- 6 — HPARC Club Meeting**
- 6 — D-Day (WWII Invasion of Normandy)
- 11 — Winston-Salem Classic Hamfest
- 14 — FLAG DAY**
- 11-13 — ARRL June VHF QSO Party
- 19 — FATHER'S DAY**
- 20 — First day of Summer
- 18 — ARRL Kid's Day
- 25-26 — ARRL Field Day**
- 26 — HPARC Newsletter deadline

BIRTHDAYS

- Luke Pope — June 8
- Dale Waterson — June 17
- Jerry Yarborough — June 17

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Breakfast
every Saturday
 —
8:00 a.m.
 —
Biscuitville,
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