



the Radio Flyer, a BRARA Newsletter

June 2014

BRARA Calendar:

- 09:00-13:00 Sat 31-May-14**
Ham Shack Work & Radio Day
- 19:30 Mon 02-Jun-14**
Informal Net on 145.29 [110.9]
followed by S County NBEMS Net
- 19:00-21:00 Tue 03-Jun-14 Club Meeting @ West Boca Library, 18685 SR-7/US-441, Boca Raton, FL 33498**
- 09:00-13:00 Wed 04-Jun-14**
Ham Shack Work & Radio Day
- 09:00-13:00 Sat 07-Jun-14**
Ham Shack Work & Radio Day
- 19:30 Mon 09-Jun-14**
Informal Net on 145.29 [110.9]
followed by S County NBEMS Net
- 09:00-13:00 Wed 11-Jun-14**
Ham Shack Work & Radio Day
- 09:00-13:00 Sat 14-Jun-14**
Ham Shack Work & Radio Day
- Sun 15-Jun-2014 FATHERS'S DAY**
- 19:30 Mon 16-Jun-14**
Informal Net on 145.29 [110.9]
followed by S County NBEMS Net
- 09:00-13:00 Wed 18-Jun-14**
Ham Shack Work & Radio Day
- 09:00-13:00 Sat 21-Jun-14**
Ham Shack Work & Radio Day
- 19:30 Mon 23-Jun-14**
Informal Net on 145.29 [110.9]
followed by S County NBEMS Net
- 09:00-13:00 Wed 25-Jun-14**
Ham Shack Work & Radio Day
- Sat/Sun 28/29-Jun-2014 FIELD DAY**
- 19:30 Mon 30-Jun-14**
Informal Net on 145.29 [110.9]
followed by S County NBEMS Net
- 19:00-21:00 Tue 01-Jul-14 Club Meeting @ West Boca Library**
- 09:00-13:00 Wed 03-Jul-14**
Ham Shack Work & Radio Day
- Fri 04-Jul-2014 INDEPENDENCE DAY**
- 09:00-13:00 Sat 05-Jul-14**
Ham Shack Work & Radio Day



This Month's Speaker *kj4rhp*

This month we will discuss *Field Day 28-29 June*. Bruce K04XL will go over *Echolink User set-up on your PC/Smart-Phone* and Gerry KG\$FUR will review the *DHS' Auxiliary Communications Field Guide (AUXFOG)*.

Future Speakers include:

Date Speaker

- 1 Jul** KC2WQ (David Brender) will give a presentation on *Bonding & Grounding {Tentatively}*
- 5 Aug** No Meeting at the Library. Free Laurel VEC Testing at 1800 hours followed by a short business meeting {if an alternate site and date found}



Repeater, HSMM, & Ham Shack News

The weekly worker group meets almost every Wednesday and Saturday morning roughly between 0900 and 1300.

Repeater 2m/70cm linking is still a work in progress as is correcting the repeater time-stamp. Testing and tweaking of the new Controller continues.

The HSMM club project is also a work in progress.

We are looking to move the Echolink setup to N4CGC's QTH initially and then to the repeater site. Echolink should be operational again sometime soon.

Your support is needed (more physical, but moral is appreciated).

QSL Report *N4J3*

As we close out the month, N4BRF has logged in ___ QSLs/___, ___ QSOs (___-%) on LoTW.

N4BRF DXCC Account Status: New this month ___ (___) ___ (___). Awards received: *Mixed and CW*.

N4BRF WAS Account Status: We have received ___ (+_) QSLs from the 2012 Field Day and ___ (+_) from the 2013 Field Day activities. Awards received: *Basic*.

N4BRF Triple Play Award Status: CW ___, Phone ___, Total ___ (of ___ needed). *This month-___!*

N4BRF VUCC Account Status: New this month: EL___ (___ & ___ MHz), EL___ (___ MHz), EL___ & EL___ (___ MHz). *The Fred Fish Memorial Award is still a work in progress.*

Next update at the 03-Jun-2014 Club Meeting.

Frank Stark Bicycle Ride

There is no flyer, yet, for the Frank Stark Bicycle Ride event, but it will be held on **Sunday, July 13, 2014** (at 06:00 hrs) at Boca Raton City Hall and runs until 13:00 hrs.

We traditionally have communicators riding with the sag vehicles, and at the water stops located in Boca, at the Boynton Inlet, and at the turn around point in WPB.

I am looking for volunteers for various duties associated with this event.

Can you help us? If so, please send an email indicating name, call sign, and t-shirt size to Lew at k4lew@juno.com or Ron Diego at w2do@comcast.net .

History of the Car Radio

Seems like cars have always had radios, but they didn't and here's the story...

One evening, in 1929, two young men named William Lear and Elmer Wavering drove their girlfriends to a lookout point, high above the Mississippi River town of Quincy, Illinois, to watch the sunset. It was a romantic night to be sure, but one of the women observed that it would be even nicer if they could listen to music in the car.

Lear and Wavering liked the idea. Both men had tinkered with radios. Lear served as a radio operator in the U.S. Navy during World War I and it wasn't long before they were taking apart a home radio and trying to get it to work in a car.

But it wasn't easy. Automobiles have ignition switches, generators, spark plugs, and other electrical equipment that generate noisy static interference, making it nearly impossible to listen to the radio when the engine was running.

One by one, Lear and Wavering identified and eliminated each source of electrical interference. When they finally got their radio to work, they took it to a radio convention in Chicago.

There they met Paul Galvin, owner of Galvin Manufacturing Corporation. He made a product called a "battery eliminator", a device that allowed battery-powered radios to run on household AC current. But as more homes were wired for electricity, more radio manufacturers made AC-powered radios.

Galvin needed a new product to manufacture. When he met Lear and Wavering at the radio convention, he found it. He believed that mass-produced, affordable car radios had the potential to become a huge business. Lear and Wavering set up shop in Galvin's factory, and when they perfected their first radio, they installed it in his Studebaker.

Then Galvin went to a local banker to apply for a loan. Thinking it might sweeten the deal, he had his men install a radio in the banker's Packard. Good idea, but it didn't work - half an hour after the installation, the banker's Packard caught on fire. (They didn't get the loan.)

Galvin didn't give up. He drove his Studebaker nearly 800 miles to

Atlantic City to show off the radio at the 1930 Radio Manufacturers Association convention. Too broke to afford a booth, he parked the car outside the convention hall and cranked up the radio so that passing conventioners could hear it. That idea worked -- He got enough orders to put the radio into production.

WHAT'S IN A NAME

That first production model was called the 5T71. Galvin decided he needed to come up with something a little catchier.

In those days many companies in the phonograph and radio businesses used the suffix "ola" for their names - Radiola, Columbiola, and Victrola were three of the biggest.

Galvin decided to do the same thing, and since his radio was intended for use in a motor vehicle, he decided to call it the Motorola. But even with the name change, the radio still had problems. When Motorola went on sale in 1930, it cost about \$110 uninstalled, at a time when you could buy a brand-new car for \$650, and the country was sliding into the Great Depression. (By that measure, a radio for a new car would cost about \$3,000 today.)

In 1930, it took two men several days to put in a car radio. The dashboard had to be taken apart so that the receiver and a single speaker could be installed, and the ceiling had to be cut open to install the antenna.

These early radios ran on their own batteries, not on the car battery, so holes had to be cut into the floorboard to accommodate them. The installation manual had eight complete diagrams and 28 pages of instructions. Selling complicated car radios that cost 20 percent of the price of a brand-new car wouldn't have been easy in the best of times, let alone during the Great Depression.

Galvin lost money in 1930 and struggled for a couple of years after that. But things picked up in 1933 when Ford began offering Motorola's pre-installed at the factory. In 1934 they got another boost when Galvin struck a deal with B.F. Goodrich tire company to sell and install them in its chain of tire stores.

By then the price of the radio, with installation included, had dropped to \$55. The Motorola car radio was off and running. (The name of the company would be officially changed from Galvin Manufacturing to "Motorola" in 1947.)

In the meantime, Galvin continued to develop new uses for car radios. In 1936, the same year that it introduced push-button tuning, it also

introduced the Motorola Police Cruiser, a standard car radio that was factory preset to a single frequency to pick up police broadcasts. In 1940 he developed the first handheld two-way radio - The Handy-Talkie - for the U. S. Army.

A lot of the communications technologies that we take for granted today were born in Motorola labs in the years that followed World War II. In 1947 they came out with the first television for under \$200. In 1956 the company introduced the world's first pager; in 1969 came the radio and television equipment that was used to televise Neil Armstrong's first steps on the Moon. In 1973 it invented the world's first handheld cellular phone. Today Motorola is one of the largest cell phone manufacturers in the world. And it all started with the car radio.

WHATEVER HAPPENED TO the two men who installed the first radio in Paul Galvin's car? Elmer Wavering and William Lear, ended up taking very different paths in life.

Wavering stayed with Motorola. In the 1950's he helped change the automobile experience again when he developed the first automotive alternator, replacing inefficient and unreliable generators. The invention led to such luxuries as power windows, power seats, and, eventually, air-conditioning.

Lear also continued inventing. He holds more than 150 patents. Remember eight-track tape players? Lear invented that. But what he's really famous for are his contributions to the field of aviation. He invented radio direction finders for planes, aided in the invention of the autopilot, designed the first fully automatic aircraft landing system, and in 1963 introduced his most famous invention of all, the Lear Jet - the world's first mass-produced, affordable business jet. (Not bad for a guy who dropped out of school after the eighth grade.)

Sometimes it is fun to find out how some of the many things that we take for granted actually came into being!

AND

It all started with a woman's suggestion!!!



Echolink Is Back N4BRF-R Node 826953

TO ALL OUR MEMBERS AND FRIENDS

Echolink is up and running on our 2 meter repeater (N4BRF).

Keep in touch with us here at BRARA this summer.

Our repeater is on 145.290 MHZ with a PL of 110.9

Our BRARA net meets every Monday night at 7:30PM

NET CONTROL, FRANK, (W1IVB), WILL STAND BY FOR ECHOLINK CHECK-INS AT START OF THE NET.

NBEMS kg4fur

I would like to remind everyone that there will be more NBEMS nets coming to Palm Beach County.

⇒ The PBC NBEMS Net **now** meets on a new day and time: **Tuesdays at 1930 hours** on the 147.285 +0.600 [PL 103.5] repeater. This to not conflict with the Sunday SSTV Net.

⇒ The South County NBEMS Net will resume later this month (19-June) on the 145.290 -0.600 [PL 110.9] repeater **and will move to Mondays at 20:00 hours** or following the BRARA Informal net (whichever is later).

⇒ A Wednesday night NBEMS net is also being considered following the Central County ARES Net.

Although not specifically NBEMS nets, NBEMS has also become an integral part of both the ARES nets

SC ARES Net kk4ati

Date: Currently Mondays
Time: Starting at 8:00 pm

ARES is considering moving this net to Wednesdays at 19:00 preceding the North County ARES net

Notes: These nets are to TEST out your Radio Equipment and OPERATOR TRAINING. on 147.225 [+600] with a PL of 107.2 (Primary) or 146.820 [-600] with a PL of 110.9 (Secondary). Simplex frequencies include 146.55 (SCARES), 147.54 (EOA5), and 147.55 (EOA6).

Monthly meetings are held at 1900 hours on 2nd Wed of month in the PBC FRS at 14276 Hagen Ranch Rd, Delray Beach FL 33446.

Club Net

145.290 -0.600 [PL 110.9] EC-826953
Monday Evening Informal Net @ 1930

Remember that we are as close as Echo Link [EC 826953]. So stay in touch with us on Monday nights at 19:30 (7:30 PM our local time). W1IVB, our NCS, looks forward to Echo Link contacts. We all do!

Club Repeaters

144.390 -0.600 APRS Repeater
145.070 -0.600 Packet Repeater
145.290 -0.600 [PL 110.9] EC-826953
442.875 +5.000 [PL 110.9]

Location: 26.39724 -80.09485
145.290 & 442.875 linking planned

Club Ham Shack

West Delray Regional Park
1087 West Atlantic Avenue
Delray Beach, FL 33446

Board of Directors

Scheduled Meetings

The BRARA Board of Directors:

K4LEW (Lew), **KG4FUR** (Gerry),
KJ4RHP (Mike), **KO4XL** (Bruce),
N4CGC (Max), **W1IVB** (Frank), and
W4WCD (Walt)

We hold weekly luncheon meetings at 11:30 Mondays (quorum permitting) at Miller's Ale House, 1200 Yamato Rd, Boca Raton, FL 33431. (561)988-9142
www.millersalehouse.com/location/east-boca-ale-house

Donations & Contributions

Contributions to BRARA—a 501(c)(3) organization—are tax deductible as charitable donations. As you complete your membership renewal or begin your year-end tax planning, please consider making a donation to BRARA.

\$10 donation-BRARA Name Plate with your Call Sign.

\$30 donation-BRARA Polo Shirt with your Call Sign.

\$40 donation-BRARA button down red denim shirt (long or short sleeve)

Planned Giving—Please also consider BRARA when updating or initiating planned giving (including charitable gift annuities, bequests, and gifts or retirement plan assets) and other assets.

Thank you for your continued support.

2014 Membership

Application & Renewal

- \$20 Full Membership
- \$5 Associate Membership
- \$5 Family Mbr w/License

Name: _____

Call Sign: _____

Address: _____

Phone: _____

Email: _____

ARRL Member: Yes No

Birthday: Month: _____ Year: _____

License Grade: _____ Exp Date: _____

Interests: Field Day Ham Fest

HF Digital DXing

VHF Packet CW

UHF Voice Contesting

EmComm Skywarn Public Svc

ARES MARS CERT

Award Chasing Ragchewing

Building & Experimenting Other: _____

Signature: _____

Return to BRARA Secretary with Dues:

Walt Dreyfus, W4WCD
21512 Woodchuck Ln,
Boca Raton, FL 33428
(954) 481-5327



Field Day 2014

Objective: To work as many stations as possible on any and all amateur bands (**excluding** the 60, 30, 17, and 12-meter bands) and to learn to operate in abnormal situations in less than optimal conditions. Field Day is open to all amateurs in the areas covered by the ARRL/RAC Field Organizations and countries within IARU Region 2. DX stations residing in other regions may be contacted for credit, but are not eligible to submit entries.

Dates: Field Day is always the fourth full weekend of June, beginning at 1800 UTC Saturday and running through 2059 UTC Sunday. Field Day 2014 is June 28-29.

Bands: Any Amateur Radio band **except** 12, 17, 30 and 60 Meters.

Log Submission Deadline: Entries must be postmarked, emailed or submitted by **2059 UTC Tuesday, July 29, 2014. Late entries cannot be accepted.** [1659 EDST Tuesday 29-Jul-2014]

Contact Information: For Field Day information contact ARRL: fdinfo@arrl.org or (860) 594-0236



Free Laurel VEC Testing

Tue 10-Jun-2014, 1800-1930, Broward Gen MC, 1600 S Andrews Ave, Ft Lauderdale [BARC] (2nd Tue of every month).

Sun 06-Jul-2014, 1100-1300, Fire Station 28, 1040 RPB Blvd, Royal Palm Beach [PWARC] (1st Sunday of odd months).

TBD Aug-2014, 1800-1930, West Boca Library, 18685 SR-7/US-441, Boca Raton [BRARA] (once a quarter).

BRARA Ham Shack

Key Rules *K4LeW*

To obtain a key for our ham shack you must be a member in good standing for a minimum of a continuous year and hold a general class license or above and go through a short training section with K4LEW (Lew), W4WCD (Walt) or N4CGC (Max).

BOCA RATON AMATEUR RADIO ASSOCIATION
WWW.114BRF.ORG

JUNE 28, 2014 2 PM until
JUNE 29 2014, 2 PM

FIELD DAY 2014

PUBLIC INVITED
AMATEUR RADIO COMMUNICATION IN ACTION
FLORIDA ATLANTIC UNIVERSITY
(BOCA RATON, FLORIDA)

DIRECTIONS From Turnpike Take Glades Road East to FAU turn North at Second Entrance go to parking garage Talk-In 145.29 pl 110.9

BRARA
BOCA RATON AMATEUR RADIO ASSOCIATION
Primary Business Address
21312 Woodchuck Lane
Boca Raton, Florida
33408
Phone: 904-481-5327
E-mail: wdreytas@bellsouth.net
Web Address www.brara.org

ARRLFD14
June 28-29
HAM RADIO
On the Air from Anywhere!

www.arrl.org

SHACK ADDRESS
10625 W ATLANTIC AVE
DEERBAY BEACH, FLORIDA

ARRL Field Day
June 28-29, 2014

Amateur Radio's most popular on-air operating event!

Show your support for ARRL Field Day with official merchandise. Shirts, hats, pins, patches and mugs available now!

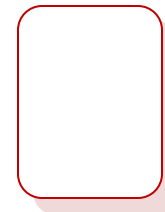
the Radio Flyer's Purpose

The purpose of this newsletter is to keep Club members and other interested Hams updated on Club events and Ham activities in the Greater Boca Raton Area. We hope you enjoy this month's *the RF* as much as we did publishing it!



the *Radio Flyer* Newsletter
5724 Regency Circle West
Boca Raton, FL 33496-2760

Email KG4FUR@n4brf.org with Articles/Constructive Critique



BRARA Club Member Name
Call Sign
Street Address
City, State Zip Code

