

DELAWARE LEHIGH AMATEUR RADIO CLUB Inc.



W3OK

CORRAL

JULY 2009

**Club Meeting July 9th At Lehigh
University's Packard Labs**

Directions and other information can be found at www.dlarc.org

UP COMING EVENTS

**July 18th & 19th - Pennsylvania Dutch
MS 150 Bike Ride**

MEETING PROGRAM

An Evening with Riley Hollingsworth

An exclusive engagement by special invitation, with K4ZDH live and in person. A rare local appearance by former Special Counsel for the Spectrum Enforcement Division of the FCC's Enforcement Bureau. Mr. Hollingsworth will engage us with the compelling challenges he confronted during his famous tenure of enforcing PART 95, followed by a Q&A session.



FROM THE PRESIDENT'S SHACK

As I write this I am looking at an exciting coming month. Probably my favorite amateur radio activity will occur at the end of June, Field Day. As in past years I hope to see a high number of DLARC club members at the Plainfield Farmers Grove. As always overnight operators are always most welcome

I am looking forward to hearing the talk by Riley Hollingsworth, K4ZDH, on July 9th. I hear from hams that have heard him at Dayton and other clubs, that it is well worth it to be in attendance.

Also in July is an event that I look forward to every year, the MS150 bike ride. For many years I have operated from a checkpoint or in a sag wagon. Starting last year I started riding in the event and had a lot of fun doing it. My riding takes an operator away from a necessary communications spot. If you can come out and help the club with communications during the event, please do so.

de AI / W3CE



MINUTES FROM THE JUNE 4th MEETING

Called to Order: by President AI / W3CE at 7:30PM

Pledge of Allegiance: led by W3CE

Approval of May Minutes: No Changes - 1st – Gary / N2AUO, 2nd – Rich / N3UB - Passed.

Treasurer's Report: No Changes - 1st Carl / AA3IX, 2nd – Dave / N3EYT – Passed

REPORTS:

Web Page: Brad / W3JXQ - Reported the addition of more new features on the web page. A new map to the 911 Center and maps and information for the Riley Hollingsworth Event also on the page.

Repeaters: Low audio was reported going from 6 mtrs to 2 mtrs.

VE Session: George / N3SQD – No test this month, the next one will be July 10th.

Club Station: AI / W3CE - Station open every Wednesday 7 PM. Attendance has be exceptional. The station is being rearranged for more efficient operation.

License Classes: Bob / KE3AW reported Spring classes over, next class sessions in the fall.

Membership: Vic / N2OFF – 201 members. New member voted in; Robert Gallo / KC2VET.

. 1st – Bill / NC3P, 2nd – Doreen / KB3PDL. - Approved

Up-Coming Events: Field Day June 27th & 28th. Volunteers needed. Contact Tom / KB3IUE
Riley Hollingsworth presentation, July 9th at the Packard Labs on the Lehigh University Campus – Volunteers still needed! Contact AI / W3CE
Pennsylvania Dutch MS-150 Bike Tour, July 18 & 19th. Contact Bryan / AA3WM
Volunteers need for this event,

OLD BUSINESS:

New Meetings Site: Due to the increase in membership the new general meeting site will be The Nancy Run Fire Company facility. At this time the September 3rd meeting will be the first date, however the August 6th could be available. More to follow on this detail.

Equipment Inventory: The equipment storage area in the barn has been reorganized. More equipment will be available for sale to the membership. Unsold equipment will be sold on eBay.

NEW BUSINESS:

Milk House Keys: The county put a new lock on the Milk House. Keys will be issued on a limited basis. A key will still be available at the 911 Center for any member.

Milk House Telephone: A Magic Jack telephone system will be installed , to eliminate the need for going through the county switch board and/or the 911 Center.

Meeting Adjourned: 7:55 by AI / W3CE

After a brief break, A program on model rocketry was presented by Dan Michaels with an assist by Brad / W3JXQ.

Respectively Submitted; Don / KC3II, Acting Secretary.



MAY 2009
D.L.A.R.C. EXPENDURE REPORT

Expenditures:

Games of Chance License	10.00
Telephone	17.68
Club Picnic Pavilion	125.00

Total Expenditures: **(152.68)**

Respectfully Submitted,
Pete Varounis / NL7XM
Treasurer / D.L.A.R.C.

***** NOTICE *****

All members will need to produce their 2009 DLARC Membership Cards to access the July 9th Program with Riley Hollingsworth without having to pay admission. Because seating is strictly limited, there will be no exceptions. So, find yours now because only a certain number of Guest tickets to meet capacity will be made available.

This notice is being given with plenty of time to locate yours to present it in order to gain free entry. Guests and anyone without a current Membership Card will pay a nominal fee so the DLARC may recover some of the costs of arranging this Special Presentation.

JULY 2008

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1 DLARC RACES/ARES Net (N3SQD)	2	3	4
5 10 Meter Net 28.430 1600 Local	6	7 D-Star Net 147.165 1900 Local	8 DLARC RACES/ARES Net (W3BUD)	9**DLARC** Meeting K4ZDH	10 V. E. Session	11
12 10 Meter Net 28.430 1600 Local	13	14 D-Star Net 147.165 1900 Local	15 DLARC RACES/ARES Net(KB3MHY)	16	17	18 MS 150 Bike Tour
19 MS 150 Bike Tour	20 Newsletter Articles due	21 D-Star Net 147.165 1900 Local	22 DLARC RACES/ARES Net (KR3U)	23 Executive Committee Meeting	24 Newsletter Goes on the Web Page	25
26 10 Meter Net 28.430 1600 Local	27	28 D-Star Net 147.165 1900 Local	29 DLARC RACES/ARES Net (KB3RTB)	30	31	

JULY CONTESTING AT THE OK CORRAL



July 1st --- RAC Canada Day
July 11th & 12th --- IARU HF Championship
July 18th & 19th --- CQ WW VHF
July 25th & 26th --- IOTA Contest



VE TEST SESSION

There will be a test session this month on July 10th at 7 PM at the Northampton County 911 center. Pretest registration is required. Contact George / N3SQD at george@bioserv.com or AI / W3CE at w3ce@arrl.net. **Note the date change because of the July 4th weekend.**

William N. Goodman, CPA

**Certified Public Accountant
Licensed Insurance Agent
Mortgage Loan Officer**

K3ANS

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PENNSYLVANIA DUTCH MS 150 BIKE TOUR

On the weekend of July 18th & 19th, the MS 150 Pennsylvania Dutch Bike Tour will be held. This two-day event (with dinner, breakfast and lodging provided) is the largest public service event that the club participates in, and we can use everyone's help. This year, the bikers will be starting Saturday in Green Lane Park located between the Quakertown and Lansdale exits of the Northeast Extension of Rte 476, approximately 30 miles northwest of Philadelphia. Travel across the rolling hills of Montgomery County through the scenic roads and Amish farmlands of Chester and Lancaster Counties. On to Millersville University for the overnight stay, and then back in the opposite direction the next day to Green lane Park for the finish. Your participation in the event can vary from a one day or two day assignment and can involve manning an ambulance and helping us keep in contact with them, or riding on one of the SAG buses (for the tired bike riders), or maintaining communications to any one of the rest stops along the route. Our job with the bike tour is to provide communications for safety and also for logistical support. Why not give it a try this year? We can sure use your help!!!

Let **Bryan / AA3WM**, event chairman, know as soon as possible if you can help. Also, please indicate what days you will be available (Saturday or Sunday, or both days) and if you plan on staying over night.

[AI / W3CE](#) will be riding in this event again this year, and will be looking for sponsors.

******* IMPORTANT NOTICE *******

Starting with the August 6th meeting the DLARC will be moving to a new general meeting location. It will be at the Nancy Run Fire Company, located on Easton Avenue in Bethlehem Township.

Coming from the east or west on Rte 22, go south on Rte 33 get off at the William Penn Highway exit. Right at light at the bottom of the ramp. Go through the next four lights, there will be a blinking yellow and that is Nancy Run Firehouse. Distance is 2 miles.

Coming from east or west on 78 go north on Rte 33 and get off at the William Penn Highway exit. Left at the light at the bottom of the ramp and follow the same direction as above.

Coming from Bethlehem, east on Easton Avenue, the blinking yellow after the Butztown light is Nancy Run Firehouse.

Coming from Easton go west on Butler / William Penn Highway / Easton Avenue (same street, name changes as you change municipalities) follow the same directions as above after passing under Rte 33.

A map can be down loaded from mapquest.com or googlemaps.com, by entering 3564 Easton Ave. Bethlehem, Pa. 18020

MONTHLY BRAIN TEASER

"A special prize awaits the first Club Member to submit the correct answer to this month's Brainteaser to the Treasurer via E-mail. He must be present at the next Meeting to receive it, or it goes unrewarded. Officers, Board members, and Brain Teaser Authors are not eligible to win."

de NL7XM

There was not a Brain Teaser winner for June, so the June Brain Teaser will be carried over for July.

JULY BRAINTEASER

What's the Missing Component?

The circuit in Figure 1 drives a near-infrared laser diode with a stream of fast rising, 20 amp pulses with a duration of about 50 nanoseconds.

R1 controls the pulse rate. C1 controls the pulse duration.

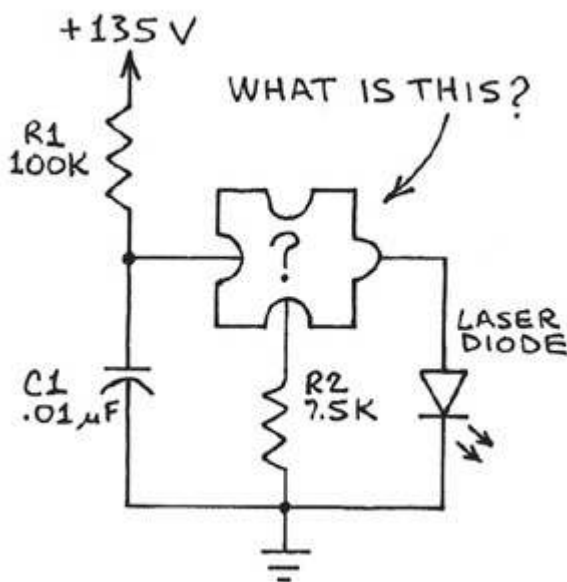


Figure 1. High-current pulse generator for driving a laser diode with very brief pulses.

What is the component concealed behind the puzzle piece? Before revealing the answer, here are some hints.

Puzzle Hints R1 and C1 form a classic RC circuit in which C1 is charged through R1. C1 is quickly charged to the supply voltage, and this applies more than 100 volts to the mystery component.

By now it should be evident that the mystery component is some kind of switch that allows the voltage on C1 to discharge through the laser diode. But what component can switch more than 100 volts? And how is it triggered?

A power FET is an almost ideal 3-terminal switch, for it has a very low on resistance. But a power FET will not work in this circuit.

Certain kinds of miniature switching vacuum tubes might work in this circuit. But the mystery component is a solid state device.

WACKY USES FOR CHAPSTICK

Stop bleeding while shaving. Dab on some ChapStick if you nick yourself.

Prevent car battery corrosion. Smear ChapStick on clean car battery terminals.

Lubricate a zipper. Rub ChapStick along the teeth of the zipper to make it zip smoothly.

Moisturize skin. Rubbing ChapStick on your face protects the skin from windburn while snow skiing.

Remove a ring stuck on a finger. Coat finger with ChapStick and slide the ring off.

Lubricate nails and screws. Nails and screws rubbed with ChapStick will go into wood more easily.

Groom a mustache or eyebrows. A little ChapStick will keep the ends of a mustache waxed together and keep bushy eyebrow hairs in place.

Shine leather shoes. In a pinch, rub ChapStick over the leather and buff with a dry, clean cloth.

HOW TO REGISTER ON THE DLARC WEB PAGE

I was recently asked how to register to the DLARC site. First - for those that do not know, the page address is still the same: www.dlarc.org

Only club members can register to the site.

Only club members can post to the site or gain access to the club rosters which includes addresses, phone#s, e-mail etc. I believe there will be more added later that members only have access. Scroll down on the front page. You will see on the left a place to log in. Under the log in spaces you will see:

- forgot your password?
- Forgot your user name?
- Create an account.

Click on "create an account"

Now you will see the registration form. All fields must be filled in.

We are a private forum/web page on the site so feel free to use your real name in the first space.

!!!The user name MUST BE YOUR CALL SIGN!!!!

Next a working e-mail address for your confirmation e-mail

Next pick a password

Next space re-type your password

Click the register button to the lower left.

You will then be brought back to the DLARC home page - at the top of the page will be this message:

"Your account has been created and an activation link has been sent to the e-mail address you entered. Note that you must activate the account by clicking on the activation link when you get the e-mail before you can log in."

Wait for the e-mail and follow the directions from there. The web master will check your call sign against the up to date / dues paid roster for 2009. If you are not on it you will be rejected. If you do not use your call sign you will be rejected.

The DLARC web page forum has a for sale section, a rag chew section etc.

Hope to see you on the site.

Any other questions - post them on the e-mail forum or contact the web master.

73's Charlie / W3OPA

JUNE PROGRAM



Dan Michael presented an outstanding program on model rocketry. He began with the static firing of a "M" type rocket motor at the Mobile Communications Van garage and followed up with videos and commentary at the 911 Center. Dan spoke of how model rocketry developed from the Estes rocket many teens used to begin their hobby. Then showed how rocketry evolution went onward and upward to the large scale models of today. The center of the program was the firing of a 1/10 scale Saturn Rocket commemorating the tenth anniversary of the original Saturn launching. Dan followed with explanations on the types of propellents and methods of igniting the propellents. How electronic components controlled the various stages of a rocket once launched. Also he reported how he

was licensed to handle the propellents and received inspection from the ATF. Also how clearances from the FAA were also needed. Dan was assisted by Brad / W3JXQ and told how they travel each month in the summer to Delaware and to their rocket club for the launching of their own rockets plus seeing the advancements launches being made by other club members.

CABLE TELEVISION DISCOUNT FOR SENIORS

Recently there was an article in the Morning Call about senior citizens being eligible for cable discounts, and not being informed of it. The cable companies are Service Electric and RCN. The article mentioned Allentown for this discount. Additional information stated that Service Electric offers the discount only in Allentown. RCN, however, states it offers the discount everywhere. Municipalities negotiate their own cable contracts, so tell your borough or township to negotiate the seniors citizen's discount in their next contract. These discounts are \$2 of basic service and \$4 off extended basic service. However if you bundle cable with other services, you are not eligible. The contracts say age is the only criterion. Seniors also must be head of their household and eligible for Supplemental Security Income, Medicaid or veterans service benefits. To apply and / or find out if you qualify contact Service Electric at 610-865-9100 or RCN at 1-800-RING-RCN. They will sent you a form.

FUTURE MEETING PROGRAMS

August 6th "Traffic & Weather Data Retrieval." Special guest appearance by WFMZ-TV 69 News Traffic Center IT Manager, JC Kelleher will explain how tons of streaming data are collected and sorted to bring you the latest information you need in order to know how to dress and which roads to avoid. If you are curious about how remote meteorological devices and strategically placed traffic cameras scattered around the Lehigh Valley deliver raw live reports and images to the Newsroom and then on to your television, you will find this Program to be very interesting and satisfying!

September 3rd "Recruiting Kids for Amateur Radio." World Radio Magazine columnist, Dayton Hamvention Youth Forum Leader, and New York City Public School Teacher, Carole Perry / WB2MGP was the first in the United States to teach an exclusive Ham Radio curriculum for 30 years as a way to introduce science, math and geography to her Middle School students. Recently elected a Board Fellow of RCA, Carole single-handedly licensed hundreds of kids by administering exams at the end of each term. Come and meet a legend in person. Carole's successful methods to attract "twens" into our amazing vocation are time proven. Kids of all ages are absolutely encouraged to attend this exclusive DLARC engagement.

October 1st "E-M-E / Moonbounce Communications." Dr. Roger Rehr / W3SZ will describe his long, well documented and successful experience with this amazing mode. Wonder what it takes to bounce a signal off the "Big Cheesey", Mother of all satellites? How much power, and how big an array do you need? How do you aim that thing? Can you actually work DXCC off the moon? What frequencies can you use? Does the moon have to be full? What if it's cloudy? You mean, I can do this with a Technician Class License? ...You got questions? ...Boy, do we got answers! Come early for a seat or you'll be standing up for this one.

November 5th : "Portable Ops From the Road." What special considerations must one confront when Operating Portable while traveling across North America in a travel trailer with the XYL, 3 dogs, a Yaesu 897D and a Black Widow antenna system? Join us as we ride with W3SQ / Mel & Co., through MI, MN, ND, SD, WY and the Grand Canyon; Alberta and many southern Civil War Battlefields. Lighthearted discussion, liberally sprinkled with lots of photographs will include setting up in campgrounds near lakes, deserts and mountains. Listen as oblivious campers trample the radials and bears trespass through the campsite! Just wait till you hear how kids try to take the antennas to use as fishing poles!

December 3rd : "Annual Christmas Party!" Throw caution to the wind and hide the bathroom scale until after St. Valentine's Day. There's no better DLARC Program than this one, where socializing with good friends while sharing great food and talk IS the presentation. Bring a dish or dessert, paper goods or soft drinks. Make handy a few copies of your recipe to share with your new admirers. (Keep a sharp lookout for the famous and anonymously prepared "Rum Balls!")

ANNOUNCEMENT

Jeff / KB3ELT has passed his Extra Exam, and has received a new call N3QO.
Tracy Miller has passed her technician exam and has received the call KB3TAE

YOU CAN'T MAKE THIS STUFF UP!

DLARC Secretary, Charlie Lazarchak worked K5D, Desecheo Island at 00:41z on 19 Feb, 2009 on 20m phone for the last contact with his old callsign, W3DEA. Upon receiving his new callsign in the mail, the first station worked and entered in the log under W3OPA, was K5D, Desecheo Island at 16:13z on Feb. 24, 2009 on 17m!

Some folks have waited a lifetime to work DX this rare, but Charlie does it in the grandest style, back-to-back, under different legitimate callsigns, and gets 59's, 2x doing it!

-Pete / NL7XM

North Alabama DX Club
m1c1p01H4H8

ICOM Spiderbeam dx Store

Stepper Soli AY dx-hamsplit.com

Radials RFI VSP

K5D confirms QSO(s) with:

Date	UTC	Band	RSY	2X
19-Feb-2009	00:41	20m	59	SSB

QSL Manager: Bob Schenck, N200 • QSL printed by WZBP
QSL designed by SQ8X.net QSL SUPPORT:

M W4KNY
V W4LSC
Z W4RKC
1 W4TMM
0 W4QD
9 W4SZN
8 W4LKO
7 W4RJR
6 W4WU
5 W4WV
4 W4WV
3 W4WV
2 W4WV
1 W4WV
0 W4WV
9 W4WV
8 W4WV
7 W4WV
6 W4WV
5 W4WV
4 W4WV
3 W4WV
2 W4WV
1 W4WV
0 W4WV

W3OPA

Date	UTC	Band	RSY	2X
24-Feb-2009	16:13	17m	59	SSB

QSL Manager: Bob Schenck, N200 • QSL printed by WZBP
QSL designed by SQ8X.net QSL SUPPORT:

A TALE OF TWO TUBES

By Dan Romnanchik, KB6NU

A couple of weeks ago, I worked N4QR on 40m CW. I could tell by the tone of his signal that he was operating a homebrew transmitter. There wasn't any 60 Hz on his signal, and it didn't chirp exactly, but I could tell it wasn't the pure tone you get out of today's radios. I asked him about his rig, and he told me that it was a one-tube transmitter made with a 6L6. I forgot to ask him where he got the schematic, but a quick Internet search turned up the following:

* The May 2005 issue of the K9YA Telegraph (<http://www.k9ya.org>) has an article written by N4QR titled, "The Wonderful One-Tuber," that contains the schematic for the transmitter. The K9YA folks don't make issues of The Telegraph available on their website, but I was able to get a copy of the issue by e-mailing them.

* A 6L6 Classic (<http://www.io.com/~nielw/6l6/6l6.htm>)

* WB2MIC 6L6 Transmitter Project (http://www.metaphoria.us/hamradio/6L6_transmitter_schematic.htm)

The 6L6 is a pentode that, according to Wikipedia (<http://en.wikipedia.org/wiki/6L6>), was introduced by the Radio Corporation of America (RCA) in July 1936. Apparently, it was used quite a bit in public address systems. After the tube became successful, tube manufacturers introduced a number of variations, including the venerable 807. The original 6L6 was capable of delivering 19 W; the latest variation, the 6L6GC is rated for 30 W. The 6L6GC is still used in guitar amps, and is still manufactured in Russia, China, and by Groove Tubes (www.groovetubes.com) in the U.S. They sell a number of different 6L6 variants; the cheapest is \$16, the most expensive \$180!!

Tube #2

One of the reasons I was interested in the 6L6 is because about a year ago I came across a schematic for a transmitter using 6A6 dual triode. I had just come into possession of a couple hundred tubes, and while I didn't have a 6A6 (at least I haven't found one yet), I do have a couple of 6J6 dual triodes. They're not quite as high power as the 6A6, but I'm still thinking about building a little transmitter with one. As you might expect, there's a bunch of information on the Internet about this tube:

* The Jones Push-Pull Transmitter (http://wv7g.home.mindspring.com/jones_6j6.html) was built with a 6J6 instead of a 6A6.

* Another schematic can be found on the AK0B website (<http://www.qsl.net/ak0b/>). 6J6 data sheet (<http://www.gargnas.net:3000/tubedata/6J6.pdf>) from the GE data book.

One interesting fact about the 6J6 is that IBM used it in the 604 computer. Unfortunately, they found it to be not as reliable as they wanted it to be, but at first none of the tube manufacturers were interested in making a more robust version. This led IBM to set up a tube-making laboratory where they could experiment with designs. They developed a more reliable version of the 6J6 and finally convinced RCA to manufacture the tube. According to the author of the history of the 604 (<http://ed-thelen.org/comp-hist/IBM-604.html#new>), part of the concern is that IBM would decide to get into the tube business.

So, the next time you hear a signal that doesn't sound so perfect, remember that there just might be a story behind it. Ask the op about his transmitter, and listen to what he or she has to say.

When not pondering the mysteries of vacuum tube part numbers, KB6NU teaches ham classes, works CW on the HF bands, and blogs about ham radio at <http://www.kb6nu.com>.

NEW MEMBER

Come shake hands and greet our newest member. Welcome him to our club. Bob / KC2VET

ROSEMARY IS GOOD FOR YOUR BRAIN

The herb rosemary contains an ingredient that fights off damage to the brain. The active ingredient in rosemary can protect the brain from stroke and neurodegenerative conditions such as Alzheimer's and also from normal aging, a collaborative group of researchers at the Burnham Institute for Medical Research say. The ingredient carnosic acid, protects the brain cells from free radicals. Rosemary comes from a shrubby evergreen bush with needle like leaves. It has trusses of flowers that can be white, pink, purple or blue. Rosemary derives its name from the Latin *rosmarinus*, which translates as "dew of the sea". Rosemary has a long history as a memory aid. It was also used in the past at weddings to symbolize love and loyalty.

FYI

The winner of the June door prize was Bob / KE3AW

The EASTERN PENNSYLVANIA District 2 ARES Net meets every Wednesday at 1930 hours local time. (Just after the DLARC Net) On 147.255 (pl 162.2). And linked to 449.375 on Blue Mountain, 443.350 in Allentown and 147.180 in Berks County.

The OK Corral is an organization publication for the purpose of informing members of the D.L.A.R.C. Of educational and training opportunities, club events, relevant news articles and a monthly calendar of daily activities, meetings and dates. Every member of the D.L.A.R.C. Is welcome to contribute articles of interest to this newsletter. Opinions, items of interest, and even suggestions towards the improvement of newsletter and/or the DLARC itself would also be accepted, a sort of "Letters to the Editor" section.

EXECUTIVE COMMITTEE 2008 – 2009 OFFICERS

President – Al Wiemann / W3CE ----- w3ce@arrl.net
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PHONE NUMBERS FOR THE EXECUTIVE COMMITTEE OF THE DLARC CAN BE FOUND ON THE WEBSITE / MEMBERSHIP LISTING

CLUB MEETINGS

All regular meetings of the D.L.A.R.C. Are held on the first Thursday of each month at
7:30 PM at the Northampton County 911 Center.
TALK IN ON 146.700 (PL 151.4)

THE W3OK TRUSTEE --- DON REAMER / KA3JWE

**The W3OK Corral is published monthly and is the Official Publication of the
DELAWARE LEHIGH AMATEUR RADIO CLUB INC.**

ARES, RACES AND DLARC NET

All Radio Amateurs are welcome to participate in the ARES, RACES and DLARC net. This net meets Wednesday at 1900 hours local time, on the W3OK Repeater 51.76, 146.70 and 444.90 (pl 151.4). With an alternate frequency of 145.11 (151.4)

THE NEWSLETTER STAFF

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