

DELAWARE LEHIGH AMATEUR RADIO CLUB Inc.
JULY 2010



W3OK

CORRAL

Club Meeting At the Nancy Run Fire Company
7:30 PM July 8th 2010



MEL / W3SQ RECRUITING FOR ARMY MARS

JULY MEETING PROGRAM
Tracking and resolving RFI
Ben Ramig / KB3CTX



FROM THE PRESIDENT'S SHACK FUN IN THE SUN

Summer is just around the corner. I hope that many of you have had the opportunity to get out and enjoy the fine weather. I have taken the opportunity to operate outside on a number of occasions. Unfortunately, the band conditions have not been as good as the weather. This new sunspot cycle is certainly taking its time getting fired up. I hope the peak is as high and as long as the low has been deep and long. Hopefully there will be a big improvement in time for Field Day.

Speaking of Field Day, it's just about here. In case you have forgotten, it is the weekend of June 26 & 27th. We will begin setting up in the Plainfield Township Farmers Grove on route 191 (the same place that it has been for the last 15 years – or more) about 9AM on Saturday morning. This year we will be erecting a tower and beam antenna for gain and directionality on 10, 15, & 20 meters. In addition there should be multiple push and crank-up masts on site. And of course a lot of wires up in the trees. At this time the plan is to run 4A, so there should be enough transmitters to ensure plenty of opportunities to operate.

Operating will begin around 2 PM on Saturday and will run (around the clock) until 2 PM on Sunday. We can always use some additional operators for the late evening and early morning hours. This year we will attempt to network the logging computers. Keep your fingers crossed that the RF gremlins don't find their way into the network. If you are going to be at the site around dinnertime, try to bring a food item as we are going to make it something of a potluck dinner.

We will begin shutting down the operation about 2 PM on Sunday. This always goes a lot quicker if there are a lot of hands to assist in the process. This will be especially important this year as it takes quite a few individuals to take down and disassemble the tower and beam.

If you have been at Field Day in the past, you know what a good time it is and I'm sure you'll be there (if your schedule allows). If you have never been to our Field Day, be sure to make time in your schedule to come out and join us.

While we're on the subject of fun in the sun, there's another event coming up in July that you may want to add to your calendar. The annual MS150 Bike ride is being held on the weekend of July 24 & 25th. The MS Society counts on us for communications and logistics support to keep this event safe for the hundreds of cyclists that participate. This event gives us an opportunity to demonstrate the capabilities of amateur radio to a large number of individuals. It is a big multi-day event with quite a number of operator positions. As such, Bryan / AA3WM will need all the help he can get to make it a success. There are opportunities to work either Saturday, Sunday or both days if you would like. As with Field Day, if you have been to this event in the past, you know how satisfying it is to work. This event is coordinated on UHF and VHF frequencies and is open to hams with a license class of Tech or higher.

I hope you get a chance to operate at one or both of these events.

73 de **N3SQD / George**



MINUTES FROM THE JUNE 3rd MEETING

The general membership meeting of Delaware-Lehigh Amateur Radio Club Inc. was held at Nancy Run Fire Co. in Bethlehem Twp., PA on June 3rd, 2010

Call to order: The meeting convened at 1930 hrs, Vice-President **Ben Ramig / KB3CTX** presiding.

Pledge of allegiance: Led by **Ben / KB3CTX**

Members in attendance: 56

Approval of minutes: Motion was made by **Tracy / KB3TAE**, and seconded by **Jeff / N3QO** –
Motion carried

Approval of Treasurer's report: Motion was made by **Gary / N2AUO**, and seconded by **Vic / N2OFF** – **Motion carried**

Repeater: **Ben / KB3CTX** gave report that the D-Star repeater is working better

Web Page: **Brad / W3JXQ** gave report, no issues.

VE session: **Ben / KB3CTX** is looking for VE's for a VE session on June 11, at 7pm at Thoder Tower

Club Station: **Dave / K3GMT** gave a report about number of people who came to the milk house last month, also the Main Dipole is not working and it needs to be replaced

General classes: **Bob / KE3AW** gave report, next technician class will start after labor day

Membership: As of 04 Feb 2010, the club has 219 members, Report given by **Vic / N2OFF**

Motion to accept, **Carolyn Fehr / KB3UMY**, **Robert Bassler / KB3ULG**, **Carl Post / KB3TOD**, and **Richard Smith / N3MSH** as members. **Tracy / KB3TAE** 1st, **Doreen / KB3PDL** 2nd, **Passed**

MS 150: **Bryan / AA3WM** is still looking for operators to help out

Field Day: Operators are need for field day

Old Business: Thanks to **Lyle / KB3SXI** for taking over the door prizes in 2011.

Pete / NL7XM is still looking for a program chair for 2011

New Business: The milkhouse will have rules posted about 3rd party operators, and the D.L.A.R.C. Will not be held responsible for any personal equipment left on the club property

Adjournment: The meeting was adjourned at 2017 hrs by **Ben / KB3CTX**

Respectfully submitted by **Howard Miller / WO3P** Secretary

JULY 2010



D.L.A..R.C. Treasurer's Report	
<u>Ending Balance - May 31st 2010</u>	<u>\$2460.63</u>
Pete Varounis / NL7XM Treasurer / D.L.A.R.C.	



MS-150 PENNSYLVANIA DUTCH BIKE RIDE

It is not too early to make plans for this event, which is being held July 24th & 25th. The DLARC has supplied communications for several years and will do so again this year.

Starting just an hour's drive northwest of Center City Philadelphia, this cycling event of a lifetime takes you through the rolling hills of Montgomery County and the scenic Amish farmlands of Chester and Lancaster counties. The unique route gives the event a unique spirit -- a sense of community perfectly captured by the Saturday night finish line party at Millersville University. This is a combined event with the Central PA Bike Tour.

Operators are need at the check points, manning the ambulances, sag-wagons and other locations along the route. Contact **Bryan / AA3WM** at sbw1@enter.net for more details.

JUNE MEETING PROGRAM

Mel Bach / W3SQ was the June program. His presentation was dual purpose, in that he wanted to explain the workings of ARMY MARS and also recruit new members. Mel started with a brief back ground on just how MARS came about and just what the future will hopefully bring. Then moving to the basic requirements and how such a membership could be rewarding. His slide presentation gave the geographical layout, the chain of command and sample of the various means of communications. Mel ended with a question and answer session and finally how to go about enlisting in the program. **Joel / WB3IWC** also presented a brief presentation on AIRFORCE MARS and how it differed slightly from the Army Mars. Joel's report also told how to enlist, by getting the form for the respective service branch from the internet. Then following through as per instructions.

JULY 2010 QUICK CHECK CALENDAR

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2	3
4	5	6	7 DLARC RACES/ARES Net (WO3P)	8 DLARC MEETING	9 V.E. TESTING	10
11	12	13 D-STAR Net 147.165 1900 Local	14 DLARC RACES/ARES Net (KB3CTX)	15	16	17
18	19 Newsletter Articles Due	20	21 DLARC RACES/ARES Net (W3CE)	22 Executive Committee Meeting	23	24 MS 150 PA Dutch Bike Run
25 MS 150 PA Dutch Bike Run	26	27 D-STAR Net 147.165 1900 Local	28 DLARC RACES/ARES Net (KC3II)	29	30	31



JULY CONTESTING AT THE OK CORRAL

July 3rd & 4th -- DL DX RTTY Contest
July 10th & 11th -- IARU HF World Championship
July 17th & 18th -- CQ World Wide VHF Contest
July 24th & 25th -- RSGB IOTA Contest



VE TEST SESSION

There will be a test session this month on July 9th at 7 PM at the Northampton County 911 center. Pretest registration is required. Contact George / N3SQD at george@bioserv.com or Al / W3CE at w3ce@arrl.net.

PROGRAM CHAIRMAN AND COMMITTEE

There is a need for a program committee and chairperson for the 2011 calendar year program scheduling. This job has been done by Pete / NL7XM for the past 3 years, but he can no longer devote the time necessary to properly secure talent and arrange scheduling of all the Club's Programs. A program chairperson can choose to put together their own series of programs or put together a committee do do the same, distributing the work load over a group. The Executive Committee feels the high quality programs that Pete had supplied over the past year, has had some effect on the membership growth experienced over this period, and would like for this growth to continue. This year is taken care of and December's are the annual Christmas get together. Programs do not need to be Ham radio related, the only requirement is that the programs be of interest to membership. Looking back over the past programs, the variance of subjects cover a lot of interesting subjects.

HELP THE ENVIRONMENT

Donate your old, empty printer ink cartridges to the Club for recycling. Any brand, model, size or shape; color or black. Please bring them to the meeting in a leak proof ziplock type baggie and give them to the Treasurer. This simple act can help your Club by reducing recurring expenses, and make you feel a lot better about our environment.

2009 PENNSYLVANIA QSL PARTY CLUB RESULTS

The final results for the club competition have come out and the Delaware Lehigh ARC came in 4th over all. The top five clubs were, The Frankfort Radio Club with a score of 1,811,444 points. The Allegheny Valley Radio Association with a score of 1,083,554. The Murgas ARC with a score of 905,620 points. The Delaware Lehigh ARC with a score of 614,002. The Radio Association of Erie with a score of 529,365. With these results we can see it will be necessary to put forth a greater effort next year, if we intend to return to the top again.

WEB SITE OF THE MONTH

[HTTP://www.hulu.com/watch/7793/family-guy-over](http://www.hulu.com/watch/7793/family-guy-over)

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

JUNE BRAINTEASER ANSWER

Answer is **ZERO**. Moses wasn't on the Ark, Noah was.

There wasn't a winner.



JULY BRAINTEASER

Pete / NL7XM

When does $10 + 3 = 1$?



2010 PENNSYLVANIA QSO PARTY

It is not too early to begin thinking about the 2010 PA QSO Party. The nice weather will give you another chance to go over you antenna system. Also there will be enough time to perfect your logging system and familiarize yourself with its various quirks. The DLARC came it 4th last year and with more participation move up higher in the standings. We were number one several times in the past and there is no reason why we can't do it again. The weekend of October 16th and 17th are the dates, so there is time enough to make plans and preparations to this club event.

NARROWBANDING MANDATE

By Jenna Portnoy OF THE MORNING CALL

As if the recession didn't make it tough enough to run local government, now officials must comply with a federal communications mandate that's expensive, complicated and likely to go unnoticed by the public. It's called "narrowbanding," and it will force public-safety agencies like police and fire departments to upgrade their radio equipment in the next two and a half years. The financial hit varies wildly, depending on the age and type of an agency's system.

In Northampton and Montgomery counties, the transition will cost little, but Bucks and Berks counties are looking at bills in excess of \$50 million each. For Lehigh, the price totals about \$4 million. Monroe, Schuylkill and Carbon counties are still working out the costs.

"You're talking about a tremendous amount of money at a time when my township and every other township in the county are under a tremendous financial crunch," said Steven Daniels, chief of police in the central Bucks community of Buckingham and a treasurer for the fire company there. "I don't know where the money is going to come from." It will have to come from somewhere because agencies that ignore the impending changes face hefty fines from the Federal Communications Commission. Still, it's unlikely the federal government would cut access to agencies responsible for the public's safety. The mandate applies to non-federal public safety agencies operating on frequencies between 150 and 512 megahertz. That includes counties running 911 dispatch centers as well as "end-users": police departments, fire companies, emergency medical services, school districts -- even municipal public works crews.

As the population grows, agencies need more channels to communicate. Since there's only so much room on the spectrum, the frequency bands have become more and more crowded. In hopes of allocating the bandwidth more efficiently, the FCC is cutting the space between channels in half, or narrowing the bandwidth from 25 kilohertz to 12.5 kilohertz and squeezing twice as many users in that same space. The mandate will not affect counties and public-safety agencies that communicate on frequencies outside the range targeted by the FCC, or ones that updated their equipment relatively recently. Others may need to replace 911 computer systems, radios at towers as well as handheld radios and mobile radios in police cruisers and fire engines. Some will have to add towers.

Without narrowbanding, agencies wouldn't have enough room on the spectrum to communicate. Sporadic interference and occasional busy signals in some places indicate the systems are nearly saturated. "The (FCC) commission is very serious and adamant about this," said Farokh Latif, who works for a subsidiary of the Association of Public-Safety Communications Officials International, which helps public safety agencies secure FCC licenses. "If they find out someone is not in compliance they risk losing their license or the commission will lay a hefty fine on them. I'm hoping everyone takes this seriously and complies before 2013." The FCC has been talking about narrowbanding since the mid-1990s and finalized the deadline in 2003. The idea was to give agencies a decade to prepare. However, with no dedicated funding and a tendency for government deadlines to shift over time, many counties put it off.

"It's very disheartening," said John McArdle, chairman of the [Carbon County](#) Fire Chief Association and someone who expects to spend at least \$200,000 on new radios in his Nesquehoning company alone. "Here we are volunteers [facing] a mandate that's not funded. We could use that money for other things."

Narrowbanding would qualify for [U.S. Department of Homeland Security](#) grant dollars divvied up among regional task forces across the country, said Maria Finn, spokeswoman for the [Pennsylvania](#) Emergency Management Agency. But for counties and agencies that need to replace entire systems, the money won't go far enough.

Jan Creedon, director of general services for [Lehigh County](#), said the county applied for a federal grant and will seek out others to cover the total \$4 million cost to the county as well as local agencies. "We're starting early, hoping we can cobble something together," she said. "Certainly we're hopeful that the user agencies we dispatch to are aware of this and that they're planning for it." Earlier this year, the county sent out letters to public-safety agencies seeking radio inventories. The county will also have to replace base stations at tower sites. Last year, the county added the project to its capital plan and estimated it would take three years to complete. "I don't know that people took it seriously until it got down to the last couple of years," she said. "People started thinking, 'Oh my, how are we going to pay for this?'"

[Berks County](#) commissioners will likely borrow the \$50 million needed to upgrade equipment and add enough tower sites to cover an 860-square mile territory, and to equip local agencies with new hand-held and portable radios, said Brian Gottschall, deputy director of emergency services.

Narrowbanding is the second most expensive project Berks has ever undertaken, behind the construction of a government center a few years ago, he said. "And when you look at the impact, I would argue it's even larger," Gottschall said. "Every citizen who lives, works or travels in Berks County, it's going to touch." It's unclear where struggling departments will get the cash for radios that cost thousands of dollars each, he said.

Like Berks, Bucks hired consulting firm L.R. Kimball to study the current system and issue a report. The news wasn't good. A total replacement will cost Bucks \$66 million. Program manager John Cunningham Jr. said radios retail for up to \$8,000 each and Bucks needs 5,000 of them. Replacement computers at consoles in the 911 center could be the most painful purchase for Bucks. The county bought the equipment less than two years ago when the dispatch center moved from the courthouse in Doylestown to a bigger location in Ivyland -- a project that Kimball consulted on as well. In 2004, when the new 911 center was just in the planning stages, emergency management coordinator John Dougherty said, he warned commissioners about narrowbanding. But studying the issue more closely could have delayed the \$16 million expansion project and put the county at risk of losing grant money. "I mentioned it in passing, but we did not discuss it at any length," Dougherty said. "As we got done the meeting, I said, 'There's more coming down the pike, gang.'"

Bucks and Berks counties are on track to meet the 2013 deadline, barely. Cunnington said the transition can take up to 30 months. Gary Hoffman, director of communications in Monroe, said there's no excuse for being ill-prepared. He advised agencies seven years ago to take inventory of their equipment and determine which radios were narrowband-ready. "This is not something that just fell out of the sky," he said. "You have people who are losing their minds over this and you have people who say it doesn't apply to them. It's a big deal if you want to make it a big deal."

The impact is unclear in Carbon and Schuylkill counties, where officials are just beginning radio inventories. "I don't know how many millions, but definitely millions," said Scott Krater, director of the communications center in [Schuylkill County](#), referring to the final cost. And there's no end in sight.

The FCC's next mandate to public safety agencies? Prepare for the bandwidth channels to split again. The deadline is anyone's guess.

FIREWORKS SAFETY

Fireworks a great fun. Here is information to help your celebration be a safe one.

1. Always read and FOLLOW directions on the label.
2. Always have an adult present to supervise your fireworks fun.
3. Always buy from a reliable fireworks dealer.
4. Alcohol and fireworks do not mix.
5. Always use fireworks outdoors away from home, dry grass and trees.
6. Always have water handy. A water hose close by is excellent
7. Always store your fireworks safely, preferably in a closed box, away from any source of accidental ignition.
8. Always store your fireworks in a cool, dry place.
9. Always only light one item at a time.
10. Never try to re-light malfunctioning fireworks.
11. Never give ANY firework item to small children.
12. Never throw or point fireworks at another person.
13. Never carry fireworks in your pocket
14. Never shoot (fire) fireworks from metal or glass containers.
15. Never experiment with, modify or attempt to make your own fireworks.
16. PETS can be frightened by loud noises and bright flashes. Keep your pets indoors while enjoying your fireworks.
- 17.

NEW MEMBERS

The DLARC is continuing to grow, so be sure to greet our new comers, shake their hands, and give them a warm welcome to our club. The newest members are Rich Smith / N3MSH, Joe Post / KB3TOD, and Bob Bassler / KB3ULG and Carolyn Fehr / KB3UMY.

TECH TEST GETS A LITTLE MORE TECHNICAL

By **Dan Romanchik, KB6NU**

Ever since the FCC dropped the code requirement and the Novice license exam, the Technician Class license has really been misnamed. Being the first license that most hams obtain, it really should have been called the Novice license. The question pool was arguably at the appropriate level for newcomers to amateur radio, being heavy on rules and operating practices, and perhaps a little light on technical topics.

That's about to change. On July 1, 2010, the question pool for the Tech test changes, and this version has noticeably more technical questions than the previous test. You could say that the Tech test is getting, errrr, a little more technical.

For example, the new question pool contains more questions about electronics components and their functions. In addition to that, examinees must also be able to identify the symbols for these components on a schematic diagram. This is a big change from the previous test, which had no diagrams at all. There are also more detailed questions about transistors and how they work.

There are also questions on how to make basic measurements with a multimeter how to troubleshoot basic problems that Technicians are likely to encounter. One question asks, "What two measurements are commonly made using a multimeter"? Answer: voltage and resistance. A follow up question asks, "What is the correct way to connect a voltmeter to a circuit"? Answer: in parallel with the circuit.

To make room for these questions, the committee dropped questions on operating practices and rules and regulations. In general, these are not big losses, but two questions that I was sorry to see go are the questions on the "basis and purpose" of amateur radio. I think these are very important for new amateurs to learn and keep in mind. (If you don't recall them, go to <http://www.arl.org/part-97-amateur-radio> and review them.)

By the time you read this--or shortly thereafter--the new version of my No-Nonsense, Technician Class License Study Guide should be available. You can download it free of charge from my website, www.kb6nu.com. Look for the link in the right-hand column. It's currently in the hands of more than two dozen reviewers, who are proofreading it right now.

While it may not be in the initial release, I plan to include a section that contains links to websites that cover topics included in the study guide. That way, students can find more information on a topic, if they choose to do so. If you have any favorite websites that discuss making measurements with voltmeters or how to read schematic diagrams, I'd love to hear from you.

GARLIC FEST

On October 2nd 2010 at the center square in down town Easton, there will be held the annual Garlic fest. The DLARC will be putting on a demonstration of of Amateur Radio. An operating special event station and other related activities to widen public awareness of our hobby. The DLARC has been issued a special event station call of **W3G. Bob / NE2C and Jon / N3INJ** are chairing this event and will be looking for volunteers . Mark your calendar and sign up when the sheets come out, so we have the greatest representation possible.

DLARC FORUM

Subscribing to the DLARCforum will insure your accessibility to the DLARC's latest news and information pertaining to the club and its activities. This is also a way to address any questions to the membership in general, on any amateur radio and/or DLARC subject. Additional forum information is available in the January 2009 issue of the OK Corral. Go to <http://mailman.qth.net/mailman/listinfo/dlarcforum> to sign up for the DLARCforum.

DLARC CLUB STATION OPERATING GUIDELINES

1. A control operator must be present at all times the club station (W3OK) is transmitting
2. The control operator will be responsible for following all FCC rules and regulations, with special attention to third party rules:
 - a. A third party is defined as any non licensed individual who takes part in communications.
 - b. Included are non-amateurs, Technicians operation HF, and General or Advanced hams operating in band segments reserved for higher class licenses.
 - c. When those mentioned in b. are operating communications should be limited to those countries that the United States has third party agreements with.
3. Log of all contacts and transmissions on the high frequency bands should be kept. 2 meter Local communications need not be logged.
4. Club member's personal call signs may be used and privileges must be restricted to the license class of that member.

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



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For more information contact Pete /
NL7XM at nl7xm@arri.com

GAS GRILL SAFETY

Outdoor cookouts are truly an enjoyable summertime activity. Before using your gas grill review these recommendations to keep safety on the front burner during your backyard barbecue.

1. Check for leaks if you smell gas or when you reconnect the grill to the liquid propane gas container. If you detect a leak, immediately turn off the gas and do not attempt to light the grill until the leak is fixed.
2. Clean and maintain your grill every year. Check grill hoses for cracking, brittleness and leaks. Replace scratched or nicked connectors, which can cause a gas leak. Check tubes that lead into the burner for any blockages from insects, spiders or food grease.
3. Always follow the manufacturer's instructions that accompany the grill.
4. Never use the grill in a garage, carport, breezeway or under a surface that can catch fire.

Position grill at least three (3) feet from your home, porch, patio furniture or fence.

HELPFUL HOUSE PLANTS

Houseplants help remove chemicals released into the air by paints, cleaners, glues, and other products. The plants physiological processes help remove some volatile organic compounds (VOCs) during the day, and tiny organisms in the soil remove VOCs when the plant is not as active at night. Plants that remove the most VOCs are the Purple Waffle Plant, the Wax Plant, Asparagus Fern, English ivy and the Purple heart Plant.

UP COMING DLARC EVENTS

July 24th & 25th - 2010 MS 150 Dutch Country Bike Tour

October 2nd – Easton Garlic Festival

October 9th & 10th – Pennsylvania QSO Party

WEDNESDAY NIGHT NETS

Additional Net Controls are needed for the Wednesday Night ARES, RACES & DLARC net. If we have enough interested operators, it will only be necessary for each operator to have only one net session in each three month period. Actually 13 weeks in a period, so 13 net controls would be ideal, and maybe some extras to fill in if needed. This would give us a pool of experienced controls, for any emergency which would arise. Interested operators should contact **Don / KC3II** at kc3ii@arri.net. The NIMS IS-700 and ICS-100 courses are not required to be a net control, but should the need arise and we do supply controls and operators for real emergencies, then the courses requirement will be in effect and EMA issued IDs will be needed to be on the scene of an emergency.

DID YOU KNOW THAT...

... tea may help men to lose weight?

Men who drink more than two cups of tea a day have trimmer waistlines on average than men who drink coffee or other beverages.

... not getting a good night sleep hurts your heart?

Recent findings: People with no history of sleep disorders whose sleep was disrupted showed the same pattern of increased clot-promoting protein as patients with sleep apnea, putting them among the same high risk for heart attack as those who suffer from regular sleep disruption.

.. the hole in the earth's ozone layer is mending?

Scientists say that averting this treat may lead to another threat --- warming in the atmosphere. The hole (caused by chlorofluorocarbons in refrigerants and aerosol cans) helped form moist clouds that sheltered parts of the southern hemisphere from warming caused by greenhouse gases. Many countries have stopped using chlorofluorocarbons and the hole has started to mend, so global warming may accelerate.



NEWS FROM THE MILKHOUSE

by Dave K3GMT

The Milk House entertained 107 visitors in May. Much of the activity this month was devoted to preparing for Field Day. Specifically what class would we operate and what antennas would be erected. After several cups of coffee and cans of soda, the group agreed that we should operate four radios (4A), and put up dipoles for 160, 80, 40, and 20 meters. The group also committed to putting up the club's Hy-Gain TH-5 triband beam.

It has been many years since the tower and beam were used in Field Day so we were concerned that we may not find all of the parts. Early in the month, several members searched the club's storage area (barn) to locate parts and thanks to the careful organization by the previous users, everything was easily found.

On May 22nd, several members met at the Milk House to put the beam together and erect the tower. We wanted to make sure that the beam was operational and the rotator and control box would turn the antenna. Bob (NE2C) provided a clever winch system that attached to the hitch of his car. The winch not only saved our backs, but also made the process much safer.

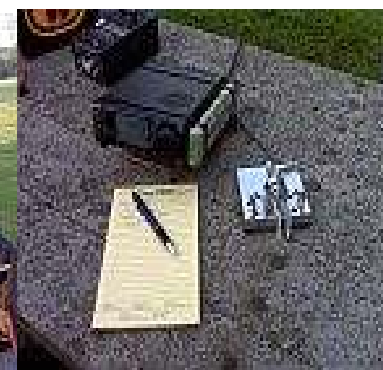


After raising and lower the tower three times to adjust the beam, and fix a loose connection on the balun, we determined that we were ready for Field Day.

Bob (NE2C) and George (N3SQD) are building a Tri-Plexer for Field Day (See page 37, June issue of QST). The Tri-Plexer will allow us to run 20-15-10 meters at the same time using one coax.



Many Wednesdays, if the weather is nice, usually someone is set up and operating a portable station. Stop by the Milk House visit with your fellow club members.





Remember, the Milk House is open on Tuesdays and Wednesdays at 7pm , and most Saturday afternoons.

PICTURES FROM THE JUNE 3rd MEETING



THOUGHT FOR THE MONTH

"A fool and his money are soon parted, but you don't call him a fool until the money is gone."
Anonymous

F.Y.I.

The winners of the June Prizes were **Dave / KA3IWC**, **Rich / N3UB**, **Bill / NC3P** and **Dave / K3GMT**
The August Program will be ARRL Technical Coordinator – **Joe Dozpat / WA3UVP**

The D.L.A.R.C. meets the "FIRST" Thursday of each month. Membership, friends and interested persons meet at the Nancy Run Fire Company Social Hall (3564 Easton Avenue, Bethlehem, Pa. 18020) at 7:30 PM. Committee reports and announcements of all present and future activities will be presented at that time. Followed by that month's program.

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.

D-Star Mid-Atlantic Regional net meets the second and fourth Tuesdays of each month on the 147.165 port with a number of other repeaters in Eastern Pennsylvania, New Jersey and New York City area .

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, as a sort of "Letters to the Editor" section.

The Milkhouse phone number is 484-895-7038.

EXECUTIVE COMMITTEE 2009 – 2010 OFFICERS

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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 Nancy Run Fire Company
TALK IN ON 146.700 (PL 151.4)

THE W3OK TRUSTEE --- DON REAMER / KA3JWE

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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 147.370 (167.9) W3OI Repeater.

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