



# Drumlin's Rumblins

DARC Monthly Newsletter

April 2009

## Next Meeting

**Wednesday, April 15, 2009**

**Doors open at 19:00**

**Meeting 19:30**

**New York State EMO**

**Route 31, Newark, NY**

**Or try 146.685**

**For assistance try 146.745**

## Minutes

### The Drumlins Amateur Radio Club, LTD Meeting Agenda

**CALL TO ORDER:** 1933 by President Robert Taylor  
**DATE:** 03/18/2009

**MEMBERS :** N2RUS, KE4VHA, N2QK, W2EVU, KC2JAL, K2MPE, KB2UDB, KS2JEK, KB2ROP, N3BNT, KC2TNJ & TRISTA, N2MLD, KB2KBY, KC2TCM, WD2STK, KC2SWZ, KB2ROS, W4ILN, N2COJ, K2OEQ, N2JC and guests KC8QXT, Cathy Koester, Ray Seppler (SunRad in Sodus) Ray gave us a history of his background in electronics

**MINUTES:** Motion to accept as printed in newsletter by W2EVU 2<sup>ND</sup> K2MPEby & CARRIED

**NEWSLETTER:** Thanks Jon. Anyone with articles, get them to Jon for publication.

**Corrections:** The Hamfest was omitted from the calendar

**TREASURERS REPORT** by KB2KBY: Motion to accept by KB2ROS, 2<sup>nd</sup> by N2JC & CARRIED

**PUBLIC SERVICE:** NTR

**REPEATERS:** 146.745 Needs a Controller Board upgrade to allow tones and phone control line. Andy removed a defective Lightning arrester to cure woodpecker like interference. Some sort of interference was keying up both 685 and 745 at the same time. 146.685 Good 144.950- all 3 working well

**RACES:** EOC training with John O'tool, Saturday at 1000, 1 to 1.5 hrs. Some discussion on upgrading the 12v power connections on the RACES Mobiles and testing for coverage from the extreme northern "DRILL" areas.

**ACTIVITIES & CONTESTS:** NTR

**VE TEAM:** ARRL affiliation for hamfest

## RACES-ARES April 2009



April showers bring May flowers, as the saying goes. Today's "Messenger" paper even had a nice 'Mutts' cartoon to contribute to my column. What great timing. Hi! Make sure you look for the cartoon. Jon, our 'Drumlins Rumblins' editor does a good job placing the digital pictures for me into the newsletter. But I don't know where he will place them in actuality. I am grateful you members take my articles with a grain of salt but hopefully a good 'hi' once in awhile.

Yes I do have fun at this, I admit. You better have fun at it or give the job to someone else. You would be very surprised how quickly the month rolls around for the time to type out another article. Hi! Every time Jon e-mails out his reminder I have replied every time "Already?" Hi!

Continued on page 2

**RACES NET SUNDAYS 20:45 146.685**  
**Except for Holiday Weekends!**

Continued on page 3

## The Drumlins Leaders 08-09

President	Bob Taylor, N2MLD	315-331-3982
V-President	Doug Peeso, KB2ROP	315-587-2889
Secretary	Russ Millspaw, N2RUS	315-483-8924
Treasurer	Dave Taylor, KB2KBY	315-597-4293
Program	Jay Hamill, KC2TCM	315-548-8589
Program Asst	Dave Taylor, KB2KBY	315-597-4293
Director 3 yr	Jim Collinworth, N2JC	315-483-8136
Director 2 yr	Doug Gould, N2QK	315-633-4469
Director 1 yr	Harold Spencer, W4ILN	315-539-3819
Sysop .745	Jeff Jenson, N2MKT	315-483-1537
Sysop .685	Bruce Blair, WB2QKO	315-597-9731
Newsletter	Jon King, KS2JEK	315-524-2453
Club Trustee	Dave Taylor, KB2KBY	315-597-4293

### RACES-ARES from page 1

As I type it is raining like crazy and the winds are sure pushing the rain against the QTH windows like its gang busters. At least March is over and the threat of those infamous ice storms is nearly over. Of course the last ice storm was in easily April too. Shiver me timbers, we will have to wait through this month too? You never know about Mother Nature. Keep the fingers crossed, I say. As 'Mutts' above says let's hope the "...and other goodies" like ice storms don't appear. Thank heavens Mother Nature is kinder to us here in NY State generally. We have our times but luckily they are few but I always say we must be prepared.

Speaking of being prepared, March was the State Ginna drill. There were a lot of new drill members in the exercise this time with county personal. RACES had a new member on board for communications AG2M, George, a.k.a. KC2SWZ. As I have said all along at the Drumlins' meetings and in this column many times, the message handling is far easier in the Ginna drill than for our WARECS Sunday nets. It is a good reason why club members should at least call in the net at least a couple times a year. I am always trying to plug the Sunday night net on 146.685. Hi! The communications went well. The gear worked perfectly. AG2M had a few minor problems but as an able amateur, really a professional at radios, he adapted well. The minor problems are resolved as I type.

The Saturday before the Ginna drill saw 16 amateurs attend the EOC radiological training. John O'Toole, the Radiological-Hazmat officer, did a good job with the training. The questions asked by those attending were good as well. Quite a few of the crew stayed after questioning John. The interest was there. In fact I had quite a few e-mails with questions about RACES. Here is where this month's newsletter article will be taking us. Here are some of the questions I was e-mailed and the answers.

About RACES, who goes where and when?

As our drill messages have pointed out many times, in fact on March 29<sup>th</sup>'s message, no RACES member is to report for anything until called out by the EOC in our case and George Bastedo, the director of the EOC. (The net messages are also a good SOP reminder as well as just training at times.) Unless advised otherwise the EOC is usually where one should report to when the call goes out. Remember all members of the Drumlins are RACES-ARES members and we wear two hats. We are ARES in coordination with the ARRL in times of non-emergencies. But once a government agency declares the need for emergency communications and we are called to serve we put on the hat of RACES. That call can come from the federal down to the county level as far as the government sector. This answers another question who asks for RACES communications which was also e-mailed to me. It is that government agency which normally would be the county for us.

So club members should be prepared when things happen. This is why we should have that 'go kit' prepared or at least have the capacity to throw things together in an emergency. I have shown many times at Drumlins meeting what I have tried to do to be prepared trying to encourage members to be prepared likewise. To be prepared a 100%, well, good luck I say. We're human and can do just the best we can but one of the ideas we're trying to convey is the emergency communications mindset. The better our mindset the better and quicker our response!

Another good question I was e-mailed was 'How do they call for communications if the telephone lines are down?' This is the reason why the Wayne County has the huge antenna complex on top of Brantling Hill. You should go to the site if you haven't yet. Believe me it is i-m-p-r-e-s-s-i-v-e! It is easy to get to by the way if you wish to take a gander. Remember this site has emergency power as well as the EOC itself. Hopefully the land-line communications is not entirely down and you could be notified by a phone call. I am talking about the old "twisted pair" as the old timers refer to it. Club members with 'tickets' are supposed to be in the automatic call system. At least Bruce and I have given them the necessary phone numbers.



## April Program:

Hopefully the third time is the charm!!

The program is going to be a DVD on digital modes and emergency communications.

I have the DVD from the Atlantic Division Digital Mode Webinar.

"This presentation will focus on the use of the Narrow Band Emergency Messaging System software (NBEMS), most specifically on the main application in the software suite named FLDIGI."

Should be pretty interesting, I've only watched the beginning of it, don't wanna spoil my surprise for the meeting.. :)

73, Jay KC2TCM

## Upcoming Public Service Events

**Rochester Hamfest**  
May 30, 2009

### Minutes from page 1

#### REMEMBERANCE:

**OLD BUSINESS:** Some discussion on establishing a club 440 repeater. K2MPE and KC2TCM discussed the amateur repeater on the Space station.

**NEW BUSINESS:** KB2ROP gave a report on the Hamfest and stated that volunteers are always needed. DARC has gained in attendance in past 2 years while others have lost.

K2OEQ reported that the AWA will have their SPRING MEET on May 2 (mini hamfest oriented toward old radios) Museum & Annex is looking for volunteers to be Museum guides.

Motion by KC2TNJ that funds be released to purchase the necessary controller equipment to bring the 745 repeater into compliance with FCC rules and allow tone access incase they are needed. 2nd by K2MPE and passed.

**50/50 \$11.50 KE4VHA**

**ADJOURNMENT:** 2048 KB2ROP 2<sup>nd</sup> KB2KBY Carried

we don't get "bonk"-ed as in the 'Mutts' cartoon. It is refreshing to see that questions are being asked and that members are thinking the mindset of emergency communications. It is nice to see! Plus I don't have to fill up this column with "Sesame Street" articles as I did once in the past. Hi! Keep the questions coming and keep those articles of interest going to Jon too.

See you in May! In the meantime....

73 & 88, Dave KB2KBY  
KB2KBY(at) rochester.rr.com

### RACES-ARES from page 2

Also remember the 146.685 repeater is at the Brantling site has emergency power as well. "Twisted pair" calls could be made from there where the phone lines still exist. If phone calling is not possible, than the 685 repeater still can be used for our communications link. Naturally keep those 2m rigs handy. RACES-ARES members have been encouraged to have some kind of emergency backup power for their 2m gear whether a HT or a mobile rig.

Finally, to end this article before it gets too long, remember in an emergency if roads are restricted for safety reasons you n-e-e-d that RACES badge! February's newsletter article gives all the info where to go for the badge. Your RACES badge gives you authorization to driving on restricted roads. You must have the badge to be of any help! Please get your badge if you have not done so. Remember the expiration date can be ignored. You are in the system! That is the important thing. The county is changing that expiration date business and instituting a new badge system in the future.

There are e-mailed questions still to answer but I will save them for next month's newsletter article. In the meantime let's hope

**If you have an article that you would like to share with the rest of the club, please submit them to me and I'll work on getting it in the newsletter!**

**Email address: KS2JEK@rochester.rr.com**

**Snail Mail address:**

**6911 Furnace Rd.**

**Ontario, NY 14519-9704**

## Calendar of Events

4-15 DARC meeting—1930, WC SEMO

4-18 Hamfest—0800, Newark

## Upcoming Hamfests

- April 18** Drumlins Hamfest  
Newark, NY  
<http://drumlinsarc.org>
- May 9** Binghamton Amateur Radio Association  
<http://w2ow.org>
- May 30** Atlantic Division Convention (75th Rochester Hamfest)  
RARA  
<http://www.rochesterham.org>
- June 13** Chaffee Country Hamboree  
Pioneer Radio Operators Society  
Springville, NY
- June 13** Skyline Amateur Radio Club  
Cortland, NY  
<http://www.skylineradioclub.org>
- July 18** RADIOCOM 2009  
Utica Amateur Radio Club  
<http://www.uticaarc.org>
- Aug. 1** 28th Annual Hamfest & Computer Show  
Genesee Radio Amateurs  
[http://www.geocities.com/gram\\_radio\\_club/index.html](http://www.geocities.com/gram_radio_club/index.html)
- Aug. 1** Finger Lakes Hamfest  
Tompkins County Amateur Radio Club  
<http://tcarc.compcenter.com/hamfest/>
- Sept. 19** Radio Amateurs of Greater Syracuse  
<http://ragsinreview.com>

### Note from the editor/webmaster:

The newsletter is uploaded to the website each month, so if for some reason you didn't get your emailed or snail mail copy, you can get it from the website. Also, check the calendar often as I do try to keep it updated as I get info from Dave!

[www.drumlinsarc.org](http://www.drumlinsarc.org)

**NY State RACES - HF NET**  
**Sunday 0900**  
**3.993.5kHz SSB/LSB**

### Radio Club Contacts

**Drumlins Amateur Radio Club Ltd. (DARC)**  
Bob Taylor, N2MLD                      N2MLD@juno.com

**Monroe County ARES**  
Jeff Wigal, WY7Q                                      wy7q@arrl.net

**Rochester Amateur Radio Association (RARA)**  
Frank Schramm, WB2PYD                      wb2pyd@arrl.net

**Rochester DX Association (RDXA)**  
Paul Mackanos, K2DB                                      k2db@arrl.net

**Rochester Radio Repeater Association (RRRA)**  
Brad Allen, KB2CHY                      kb2chy@frontiernet.net

**Rochester VHF Group (RVHFG)**  
Andy Flowers, K0SM                      aflowers@frontiernet.net

**XEROX Amateur Radio Club (XARC)**  
Ned Asam, W2NED                      w2ned@frontiernet.net

## **DRUMLINS HAMFEST APRIL 18<sup>TH</sup>-** **VOLUNTEERS NEEDED**

It is hamfest time again for the Drumlins. Please consider volunteering your time for the following events as much as you can:

1. FRIDAY-April 17<sup>th</sup>-setup Marbletown F.D. 5:00PM; KJI & Quick Silver will be there and whoever else appears. Help needed for vendor setting up. Pizza for the work crew!

2. FRIDAY-APRIL 17<sup>TH</sup>-‘security’ DONE! for over the night time from 11:00pm to doors open Saturday morning. KB2KBY taking the early evening shift 5:00-11:00PM. JAY & SABRINA- KC2TCM & WD2STK

3. SATURDAY-APRIL 18<sup>TH</sup>-HAMFEST:

\* Help needed with kitchen. Esther & Steve Elliott heading the kitchen but need 3 helpers.

\* Help needed with tickets/money at entrance.

Two at ‘gate’-have canopy for inclement WX- need volunteers to relieve first ‘gate’ crew. Possible help (ers) with parking during the big rush time.

\* Volunteer(s) to collect ‘tail-gater’ and ‘table’ fees.

\* Volunteer(s) to man the club table: SPENCE-W4ILN

\* Volunteer(s) for collecting 50/50 ticket-money.

\* Three volunteers with VE badges-Extra class-to help with ARRL VE testing at SEMO. KB2KBY is VE coordinator; N2QK is one VE, two more needed minimum.

\* Help at the mic table with announcements, ticket cage, etc.

\* Volunteers to aid vendors with breakfast, drinks etc., if needed by vendor while they man their tables.

\* Volunteer(s) for 146.745 talk-in-must know area roads, directions, etc.

\*BIG CREW TO HELP WITH CLEANUP & PUTTING TABLE/ CHAIRS BACK IN PLACE. Big prizes being held off until 12:30PM! (Suggestion from last year.) Clean-up crew chance for ARRL prize.

This is our one big fund raiser for the year. A lot of hands make the hamfest easier for all. We have very successful the past 3 years and against the norm. We have increased in numbers each year. KJI and Quick Silver as amateur vendors have been a big boost to our hamfest as well. Your support is appreciated to keep them returning. Please help when and where you can.

73 & 88, Doug KB2ROP  
315-587-2889

DPeeso(at)hotmail.com

Chairman for Hamfest

Executive Committee

### **Club Address**

Dave Taylor KB2KBY Club Trustee  
228 W. Jackson St., Palmyra, NY 14522  
Packet: Kb2kby-1 thru Newark Node  
Email: [KB2KBY@rochester.rr.com](mailto:KB2KBY@rochester.rr.com)

### **Rochester Hamfest Venue Change**

For those that don't know already, the Rochester Hamfest is changing locations. It is also going to a 1 day event. The new location for the hamfest will be the Barnard Carnival Grounds, which is located at 380 Maiden Lane, Rochester NY. The date of the hamfest is the 30th of May. The price has also changed. It is now \$5.00/person and 16 and under are Free. For more info, see [www.rochesterham.org/Hamfest.htm](http://www.rochesterham.org/Hamfest.htm). You can also get to it from our website [www.drumlinsarc.org](http://www.drumlinsarc.org).

## **BAD “WX” DARC MEETING - CHECK 146.685 REPEATER**

During the winter bad weather (WX) months-check the 146.685 repeater. Starting at 6:00PM for a usual Wednesday night meeting there will be an announcement every 15 minutes on the quarter hour canceling the meeting. Announcements will end at 7:30PM. Keep monitoring the repeater. If this is Saturday meeting, which are at 10:00AM, the announcement will start at 8:30AM.and end at 10:00AM. (The 685 has full back up emergency power.)

## **BAD “WX” DARC MEETING - CHECK 146.685 REPEATER**

## FCC Clarifies What Constitutes an Amateur Radio Repeater

In December 2007, Gary Mitchell, WB6YRU, President of the Northern California Packet Association (NCPA), filed a Petition with the FCC, asking for the Commission to clarify the definition of a repeater. According to Part 97, Section 3(a)(39), A repeater in the amateur service is "[a]n amateur station that simultaneously retransmits the transmission of another amateur station on a different channel or channels."

Mitchell sought clarification on the word "simultaneously," asking if it referred to the signal information being retransmitted, or to the fact that the receiver and transmitter must both be active at the same time while acting on the same signal information. On March 23, 2009, the Commission clarified that even if there is a slight delay between what is received and what it transmits (as in the case of D-STAR and other digital repeaters), it is considered simultaneous if the receiver and transmitter are both active at the same time.

Mitchell pointed out in his petition that while the Commission's Rules specify on which bands amateur repeaters may operate, "some amateur repeaters are operating on bands other than set forth in Section 97.205(b) with systems that are essentially voice repeater stations, but that digitize and retransmit the user's voice, on the theory that because there is a small delay in retransmitting the signal of another amateur station, the signal is not 'simultaneously' retransmitted and, therefore, the system is not a repeater."

In its reply, the Commission pointed out that prior to 1994, a repeater was defined as "[a]n amateur station that automatically retransmits the signals of other stations." This, the Commission told Mitchell, was revised to clarify "that certain accommodations for message forwarding systems do not apply to other operating activities such as repeaters and auxiliary stations." The Commission proposed to define a repeater as "[a]n amateur station that instantaneously retransmits the transmission of another amateur station on a different channel or channels," but ultimately replaced "instantaneously" with "simultaneously" because commenters noted that there is always a small propagation delay through a repeater.

As one commenter explained, "The word 'simultaneously' in this case means that the repeater is receiving and transmitting concurrently, whereas each signal might be slightly displaced in time between receive and transmit."

To be able to repeat another station's transmission, the Commission said that a repeater "must be able to receive a transmission from another station and retransmit it. Because the word 'simultaneously' in the definition is used to modify 'retransmit,' we believe it refers to a repeater station's transmitter being active when retransmitting the signal received by the repeater station's receiver from another amateur station. We conclude, therefore, that 'simultaneously' as used in the definition of a repeater refers to the receiver and transmitter both being active at the same time."

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Info taken from an ARRL email.

**Friday Luncheon  
Cross Park at noon**

**May Rumblins  
Deadline is  
May 6, 2009**

## ARRL Comments on FCC's Proposed Establishment of Rural Broadband Plan

In March 2009, the FCC invited comments via a Public Notice concerning the establishment of a comprehensive rural broadband strategy as part of the Department of Agriculture's Food, Conservation and Energy Act of 2008, commonly known as the 2008 Farm Bill. Per the American Recovery and Reinvestment Act of 2009 (Recovery Act), Congress required the FCC to develop a "comprehensive national broadband plan." According to the FCC, they, Congress, and the Secretary of Agriculture "have repeatedly recognized the importance of ensuring access to advanced telecommunications and information services to all Americans, with a special focus on rural and hard-to-serve areas." The opportunity to comment on the Public Notice provided the ARRL to express concerns about broadband over power lines (BPL) that the FCC has yet to satisfactorily address.

In the comments submitted by ARRL General Counsel Chris Imlay, W3KD, the ARRL reaffirms its support of broadband opportunities in rural areas. "ARRL is in agreement that broadband is critical to the health of agricultural and other businesses, and to the educational interests of Americans who live in rural areas," Imlay stated. Imlay commended the FCC in looking for broadband solutions on both the short and long term, as well as identifying how Federal programs "might overcome obstacles that currently impede rural broadband development."

Imlay pointed out that while the FCC and various power utilities have touted BPL as a promising means of providing rural broadband service, the ARRL contends that there are "prohibitive limitations (notable among these being the large number, and the cost, of repeaters and couplers required on overhead, medium voltage power lines for what amounts to a limited number of subscribers' homes in rural areas)."

The ARRL maintains that before BPL could ever be considered as a long-term source of broadband in rural America, the FCC must adopt rules that provide against BPL interference to the licensed radio services. Imlay said that studies have pointed out that BPL systems cause interference to licensed radio services in "certain configurations," such as international broadcasting, aeronautical, maritime, disaster relief, military and the Amateur Radio Service. "Of particular concern in rural areas is that low-band VHF radio systems are still common among state police, volunteer fire departments and other 'First Responder' public safety agencies," Imlay told the Commission, "BPL systems using this frequency range can and would, without additional rules, likely block communications between dispatch centers and emergency response vehicles."

Imlay said that Amateur Radio is a "continuous, intensive user of the high-frequency bands in residential areas," and as such, "is arguably the most pervasively affected" by the FCC's plan to widely deploy BPL in rural areas. "Amateur mobile operation is a particularly notable victim of BPL interference, since medium-voltage power lines run parallel to roadways. The Commission's BPL rules "include no effective protection."

Imlay reminded the Commission that the ARRL, as well as broadcast industry representatives, challenged the adequacy of the FCC's BPL interference rules: "On appeal to the United States Court of Appeals for the District of Columbia, the Court remanded the ET Docket 04-37 proceeding to the Commission with some very specific instructions, including reconsideration of assumptions relating to interference mitigation and disclosure of studies that had previously only been released in redacted form." Imlay pointed out that almost a year after the Court's decision, the Commission has done "literally nothing" to comply with the mandated instructions.

In the six years that the BPL rules have been on the Commission's docket, Imlay said that there has been "continuous and extensive debate about the interference potential of BPL." This, he told the FCC, has created "some uncertainty" amongst the various utilities and municipalities that have been eyeing BPL as a broadband delivery mechanism, with the Commission's inaction since the Court's decision, contributing to the uncertainty and "creating a dampening effect on the marketplace's interest in BPL." Before the FCC can implement a BPL policy for rural America, Imlay said that this "regulatory uncertainty" would need to be resolved.

The cost of implementing interference resolution must be considered by any rural broadband provider, Imlay said. While there is nothing in the FCC rules concerning this, Imlay reminded the Commission that the ARRL, "some eight months

ago, offered a plan to the Commission's Office of Engineering and Technology in this regard. The revised regulation suggested by ARRL would be sufficient to reduce the potential interference from BPL to the point that it would be practical to address such instances on a case-by-case basis.

Compliance is achievable with present BPL technology without significant limitation on BPL deployment, rural or otherwise.

However, the absence of such rules is an obstacle to any consideration of BPL as a rural broadband mechanism and makes an evaluation of interference mitigation difficult or impossible." The deployment of a BPL system with a high potential for interference would require expensive mitigation afterwards, whereas if the potential is reduced to an acceptable level at the time of deployment, the need for mitigation -- and therefore the cost -- will be greatly reduced.

Imlay told the FCC that more than four years ago, the Department of Agriculture's Rural Utilities Service (RUS) recognized "the need and willingness to utilize agency resources to remove interference concerns as an obstacle to rural broadband rollout (at least via BPL)." In January 2005 letter from then-RUS Administrator Hilda Gay Legg to ARRL Chief Executive Officer David Sumner, K1ZZ, regarding the RUS's Community Connect Grant Program, the RUS acknowledged that the cost of interference mitigation from BPL systems was a "significant" issue, and told the ARRL that "whenever a loan or grant application proposes broadband service delivery via BPL, the RUS will 'consider the cost of interference mitigation in [its] financial analysis.'" On March 20, current FCC Commissioner Jonathan Adelstein was nominated by President Barack Obama to become the next Administrator of the RUS.

Imlay told the Commission that "[i]f the means by which a grantee would comply with the Commission requirements for interference avoidance are not clear (which as of now they are not), it is unlikely that any applicant for a grant for broadband service using BPL could address the RUS's concern about interference." Therefore, Imlay said that it is necessary for the FCC to address the BPL interference issues on remand from the Court of Appeals "in order to remove this additional obstacle to an assessment of rural broadband opportunities via BPL."

The ARRL is "constrained" to note that the FCC has, over the past six years, "acted not as a dispassionate technical agency in the evaluation of certain broadband mechanisms, including BPL," Imlay noted, "instead acting as a self-described 'cheerleader' for certain technologies, also including BPL." By these actions, Imlay said that the Commission "has ignored technical evidence that is contrary to its predisposition," and urged the FCC that "those same mistakes" not be repeated here.

Imlay reminded the Commission that President Barack Obama, on his inauguration day earlier this year, placed a series of goals on the White House Web site. "Among these," Imlay said, "was the following, obviously laudable goal: 'Restore Scientific Integrity to the White

House: Restore the basic principle that government decisions should be based on the best-available, scientifically valid evidence and not on ideological predispositions.' The Commission has the opportunity to implement this goal in this Docket proceeding."

Saying that rural broadband opportunities should be "evaluated in terms of the scientific realities of the technologies on the table, and not on the basis of what the Commission wants to believe about them," the ARRL asked the FCC to fulfill "without further delay the obligations placed upon it by the United States Court of Appeals in ET Docket 04-37, and adopt such revised and additional rules for BPL so as to eliminate the extant interference potential of the technology." With the regulatory uncertainty and unresolved interference issues that continue to surround BPL, the resolution of ET Docket 04-37 is a "prerequisite for the development" of a plan for a complete evaluation of rural broadband opportunities and the development of a rural broadband plan.

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Info taken from an ARRL email.

# April 12 - May 23, 2009

## Drumlins Amateur Radio Club, LTD

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<i>April 12</i> Easter NO Net	<i>April 13</i>	<i>April 14</i> KD2CO B'Day	<i>April 15</i> 7:30 PM DARC Meeting	<i>April 16</i>	<i>April 17</i>	<i>April 18</i> HAMFEST N2MKT B'Day
<i>April 19</i> 8:45 PM RACES Net	<i>April 20</i>	<i>April 21</i>	<i>April 22</i>	<i>April 23</i>	<i>April 24</i>	<i>April 25</i>
<i>April 26</i> 8:45 PM RACES Net	<i>April 27</i>	<i>April 28</i> AA2MS B'Day	<i>April 29</i>	<i>April 30</i>	<i>May 1</i>	<i>May 2</i>
<i>May 3</i> 8:45 PM RACES Net	<i>May 4</i> WR2C B'Day	<i>May 5</i> NN2H B'Day	<i>May 6</i>	<i>May 7</i>	<i>May 8</i>	<i>May 9</i>
<i>May 10</i> 8:45 PM RACES Net	<i>May 11</i> N5THV B'Day	<i>May 12</i>	<i>May 13</i>	<i>May 14</i> N2MLE B'Day	<i>May 15</i>	<i>May 16</i>
<i>May 17</i> 8:45 PM RACES Net	<i>May 18</i>	<i>May 19</i>	<i>May 20</i> 7:30 PM DARC Meeting K4FXD B'Day	<i>May 21</i>	<i>May 22</i>	<i>May 23</i>