



# Loveland Repeater Association Newsletter

<http://www.info2000.net/~lra>

The official organ of the Loveland Repeater Association, a non-profit organization supporting all aspects of Amateur Radio in the Loveland, Colorado area.

<b>LRA Officers</b>	
President.....	Ted Cline, NØRQV, 970-593-9303, ted_cline@agilent.com
Vice-President.....	Tom Levendusky, Jr., NØMWY, 970-962-9023, toml@frii.net
Secretary/Treasurer.....	Ron WØOSK and Jody NØAJB Klein, 970-532-3013, ronklein@ix.netcom.com
Editor.....	Walt Harsch, KCØFGT, 970-679-0178, walter@ezlink.com
<b>FM Repeaters</b>	
2 Meters (NØRQV).....	147.795 (in)/147.195 (out) MHz (100 Hz Subtone; 1* on, 0* off)
440 (NØRQV).....	449.575 (in)/444.575 (out) MHz (100 Hz Subtone; 1* on, 0* off)
Interference Coordinator.....	Ted Cline, NØRQV, 970-593-9303, ted_cline@agilent.com
General Repeater Maintenance.....	Dennis "Duff" Dyer, WØXYZ, 970-593-9984, dennis_dyer@msn.com
Repeater Macros.....	Dennis "Duff" Dyer, WØXYZ, 970-593-9984, dennis_dyer@msn.com

Club meetings are held the first Saturday of each month at the Wayside Inn in Berthoud, CO (505 Mountain Ave (US 287), 970-532-2013). An optional \$6.00 breakfast buffet begins at 8 AM. The meeting starts promptly at 9 AM. Visitors are welcome. Come join us!

**Next Meeting: Saturday, April 7th**

"Electronics & Stuff Garage Sale" at the Boulder County Fairgrounds, and I'm off to represent us at the Colorado Council of Amateur Radio Clubs ([www.ccarc.net](http://www.ccarc.net)) meeting in Bailey.

73  
Ted

### February 01 Meeting Report From Jody Klein, NØAJB

The March meeting was called to order by Ted Cline. There were 19 members and guests present. Among those present was Nathan, KCØJSY who had just received his license.

Ron, WØOSK, gave the treasurer's report. Bank balance as of 2/23 is \$\_\_\_\_. We have received renewals of 93 members and 39 family members. A membership roster will be included in the April newsletter.

Interference: It was reported that there is AC noise de-sensing two meters at the repeater site when damp. Let Ted know of any other problems.

### President's Corner From Ted Cline, NØRQV

Thanks to Tom Levendusky NØMWY for his recent repeater macro updates.

Field Day is June 22-24. We need a volunteer for Field Day Poobah. The ARRL is offering FD T-Shirts and Pins.

Both repeaters are working. Everything is just ducky.

I plan to have a quick Sat-Apr-7 meeting. I expect folks may want to rush down to the Longmont Amateur Radio Club's

Rick, WB7THT, announced he has 2 folding tables available for club use. The price is right.

Ted, NØQRV, described a new QSL "bureau" service available at <http://www.vqsl.net>. Discussion reminded members that electronic QSLs are not accepted for most awards.

The Longmont Amateur Radio Club will have a "Garage Sale" on April 7. Details can be found at: <http://www.qsl.net/larc/garage.html>.

Rick, WB7THT, is now the LRA liaison to the Loveland EOC. Recent checks indicate the equipment is all in working order.

Jim Crowder, NØHBX, has been approached about use of the repeater site for high speed internet access business. It was pointed out the Fred Wenninger owns the site, not the club and even with his approval, we're not sure it would work. Ted suggested that we mull it over we make a decision. We'll contact Fred to see what he wants.

John Clark, a Technical Education Instructor from BHS, spoke to us. He would like volunteers to help with his class and to submit ideas for hands on projects. He would appreciate comments, volunteers, ideas, equipment and maybe a demo. He can be reached at 970-330-4375, 613-7719 is his voice mail number at the school and his e-mail address is: [johnclark@home.com](mailto:johnclark@home.com)

Weather training is still to be scheduled in late April or early May. Randy, WØAVV needs 2 controllers to help him. The ARES District 10 web site has details.

Kerry, NØWIQ, won the 50/50 drawing and left \$7 richer with his share of the big prize.

A good time was had by all, and everything is "just ducky".

**From our Secretary/Treasurer for February 2001  
From Ron Klein, WØOSK**

Our bank balance was \$\_\_\_ on March 31, 2001. Significant account activity for the month was the receipt of dues from 8 members, and the payment for purchase of the battery charger equipment for the repeater emergency backup power system. There are now total of 135 members with 94 primary members and 41 family members paid for 2001. Those who have not renewed by March 30, 2001 have been purged from the active membership roll. Details of account activity through March 31, 2001 are shown in the following table:

Beginning Balance as of 2/23/01	
Credits	
01 Dues	
Repeater Fund	
50/50 Drawing	

Total Credits	
Debits	
Newsletter	
Public Service	
Qwest	
Bank Charges	
Repeater Batteries	
Total Debits	
New Balance as of 3/30/01	

**Upcoming Swapfest Information**

Longmont Amateur Radio Club (LARC) is hosting the "Electronics & Stuff Garage Sale" Saturday, April 7<sup>th</sup> at the Boulder County Fairgrounds from 8:00 AM to 2:00 PM. *They promise not to sell any "good stuff" until after the LRA meeting is over, so don't use this as an excuse to skip your monthly club meeting! Ed.*

Little different format this year; \$2 admission buyer or seller at the door. Table rental \$10 (that includes one chair) – also at the door. Talk in: 147.27 +100Hz, simplex 146.520. LARC reports that everything is "just ducky."

**Berthoud High School Electronics Program  
From Ron Klein, WØOSK**

After last month's meeting I met with John Clark at Berthoud High School to see what he might need and how I might be able to help with his electronics instruction in Industrial Technology. He has some good ideas and has a good project started in the model railroading area with another volunteer helping with that. I think it offers the possibility of extending that to applications of digital control and some "RF" communications tricks.

There is some basic lab equipment available, although a little limited. Perhaps Agilent/HP/Kodak surplus and or donations could somehow be looked at to help them with the addition of some equipment.

Apparently the BHS Physics teacher has done some things that could be used as a beginning of introduction to short wave listening and ham radio. There is apparently one or more wire antennas installed as part of that activity. I mentioned to John that there had been some discussion within LRA about finding out about a possible ham club interest at BHS. He offered to try to bring the Physics teacher to the next LRA meeting on April 7.

73,

**Ron - WØOSK**

## Aurora Borealis Web Pages (Thank You, Ted!)

Reports from around USA:

<http://www.spacew.com/aurora/forum.html>

Auroral Activity Sighting Reports:

<http://www.spacew.com/www/auroras.html>

Hourly STD DMSP/POLAR Auroral Activity Report:

<http://solar.uleth.ca/www/aurora.html>

Intensity of aurora stripchart?:

[http://www.sec.noaa.gov/ace/MAG\\_24h.html](http://www.sec.noaa.gov/ace/MAG_24h.html)

Stripchart of width of aurora?:

<http://xyber.irisz.hu/cucc/aurora.html>

Current Solar Data (from NOAA):

<http://www.maj.com/sun/noaa.html>

## LRA Classifieds.....

Yaesu FT-10R (2m HT) for Sale

Transmitter has been opened up for CAP. Includes:

ADMS-1 programming package w/cable

E-DC-6 external power cable

Rubber protection boot

MH-34 lapel speaker mike

Standard charger

Everything is in mint condition except the battery (FNB-41) is bad. \$175 or best offer

Bill Miner (970)679-2786 [bill\\_miner@agilent.com](mailto:bill_miner@agilent.com)

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I have some things I would like to give away to anyone who can put them to good use. Thanks,

Clyde, NØCG, 970-667-7415, [ceglass@juno.com](mailto:ceglass@juno.com)

Motorola "Low Band" FM base station in a 29"H x 22"W x 14"D cabinet. Includes a receiver, transmitter, power supply and a control panel (mounted on the front of the cabinet.)

Model: C71GJB-1100A

Type: CG-1004

Serial #: JO5779

Power: 115 VAC

Freq: Last licensed on 47.46 MHz.

12-Foot satellite dish of heavy duty construction.

I'll accept inquiries until May 15th then if more than one person is interested in the above I'll flip a coin or draw names to determine who gets the item.

I also have several 3-ft x 4-ft sheets of 0.59" double-sided copper-clad fiberglass printed circuit material to give away. This is excellent ("*ducky*" Ed.) material for making shielded RF enclosures or commercial grade PC boards.

## Would you like to get your newsletter via email?

33 of you have already signed up! Thanks. If you sent me an email, but still got a hard copy, please email again. Find out what's happening with LRA a day or two sooner – sometimes even BEFORE the monthly meeting! Just send Walt an email at [walter@ezlink.com](mailto:walter@ezlink.com) and I'll add your email address to the monthly list. It's fast, it's simple and it will save your club much \$\$\$ (First class postage is up to \$.34 now!) In April I'll send in Text (.txt) and HTML (Web Browser) file types. The HTML should be more "universal/ducky" than MS Word. I'll keep experimenting with file types – maybe .pdf next

MS Word readers are available free at  
<http://members.home.net/baltimore/all/freesoft.html>

Walt, KCØFGT

## ARLS006 AO-40 Spinup Under Way

While using the onboard magnetorquing system to adjust AO-40's attitude, AO-40 ground controllers were able to bring the spin rate from nearly 18 RPM down to 1.8 RPM--the planned final value. Now, they're planning to raise the spin rate to 5 RPM to check excessive attitude change.

Citing what he called "some confusing results," AMSAT-DL President and key AO-40 project team member Peter Guelzow, DB2OS, said AO-40's attitude had changed faster than the experts believed possible.

Ground controllers theorized that the effects of drag at perigee were much higher than anticipated. The extra drag at perigee might have been caused by Earth's atmosphere ballooning outward in response to solar activity. As a result, it was decided to spin up the spacecraft to compensate for the too-rapid changes in attitude due to drag.

"This will give us additional breathing space," Guelzow said. Ground controllers have commenced a five-perigee magnetorquing sequence to raise the spin rate to 5 RPM. "In addition," Guelzow said, "preparations to test the arcjet thruster, as soon as accurate attitude is determined, are under way."

Further plans for orbit correction and commissioning of AO-40 will depend on how the arcjet tests go. If the arcjet tests are satisfactory, initial transponder operation could be attempted before summer. AO-40's telemetry data stream halted briefly late last week. "Because of the recent very high solar activity, the AO-40 team at first thought that the IHU-1 had crashed," Guelzow said. It was later determined that a soft error had occurred and was corrected by the onboard EDAC, or Error Detection and Correction unit.

Loveland Repeater Association  
 PO Box 1733  
 Loveland, CO 80539-1733



Amateur Radio Serving the Community  
 Since 1978



**LOVELAND REPEATER ASSOCIATION  
 MEMBERSHIP APPLICATION**

NAME		CALL	
ADDRESS			
CITY		STATE	ZIP
PHONE	LICENSE CLASS	UNDER 18 Y N	ARRL MEMBER Y N
PACKET ADDRESS		E-MAIL ADDRESS	

DUES: Family Membership \$20.00 *NEW FAMILY MEMBERS ARE*  
 Under 18 \$ 5.00 *PRO-RATED AT \$1.75/MONTH*  
**\*\*\*USE BACK OF FORM FOR ADDITIONAL FAMILY MEMBERS\*\*\***

INCLUDES 2 **FREE** MACROS

Contact: Ted Cline, N0RQV, 593-9303

MAKE CHECKS PAYABLE TO **LRA**

Loveland Repeater Association P.O. Box 1733 Loveland, CO 80539-1733	TOTAL ENCLOSED DUES
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