

The Repeater Rag Volume 28 Number 3



NEWSLETTER OF

THE DENVER RADIO LEAGUE

A CLUB DEVOTED TO OUALITY AMATEUR RADIO

Published in the Denver South Suburban area, Colorado

EDITOR

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DRL BOARD MEMBERS

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George Stoll, WAØKBT, Repeater Trustee *REPEATER LOCATIONS:*

146.88Ø	Lockheed Martin Company
146.64Ø	Centennial Mountain
449.600	Lockheed Martin Company
145.Ø5Ø	Digi - Lockheed Martin Company
Repe	ater Identifier: WAØKBT

The Denver Radio League is open to all licensed amateur radio operators. Repeater usage is limited to properly licensed hams.

Membership dues and renewals

~ <u>Please make checks (\$15) payable to</u> <u>Denver Radio League or DRL</u> ~

Remit to: Al Cooley, NØAUS 6199 South Broadway Littleton, Colorado 80121-8016 For information, contact Al at: 303-794-6511 or on the 146.88Ø Repeater DRL Membership Meeting
(Last one for 2005 !!!)

Wednesday ~ November 16, 2005

7:00 to 9:00 p.m.

Bemis Public Library

Please note: We Must Be Out Before or By 9:00 P.M.



From the Editor ...

Wishing each of you the happiest of holidays, a warm home, and the courage and strength to face all the changes that our world is presenting to us. My hope is that we will all be able to maintain, if not excel, in the face of rising costs and mother natures antics, with good health, family and friends.

This publication offers *Hamfests and Other Events 2006* by NØLP, an excellent *IRLP Info* by Bob Schellhorn, NØTI, a *humorous article* from Russ Lawrence, KAØULN, and a *cartoon* by Chris Krengle, KBØYRZ. In addition, you'll find the *EOSS 100th Flight invitation* and the *2006 ARRL Rocky Mountain Division Convention Registration Form*. Thank you all for providing the information and humor.

As we move toward the future, please remember that this is YOUR newsletter publication. Please take the time to submit articles of interest, learning and fun and share them with your fellow hams.

I thank you for your continued support of this editor. Thank you Tim, WBØTUB and Al, NØAUS for all that you have done to continue making it possible.

Happy Holidays one and all!!! Eileen, WDØDGL



Hamfests and Other Events - 2006 As of: October 6, 2005

Hamfests

Date		Group/Name	Location/Time
02/12/06		Aurora Repeater Association	Adams County Fair Grounds
04/01/06		LARCfest	Longmont, Boulder County Fairgrounds
07/08/06		PPRAA	Monument, Lewis-Palmer High School / 0800
08/20/06		Denver Radio Club	Lakewood, Jefferson County Fair Grounds
08/27/05	X	Campfest / Mountain ARC	Golden Bell Campgrounds near Divide
09/24/06		BARCfest	Longmont, Boulder County Fairgrounds / 0800
09/17/05	X	Northern Colorado ARC Superfest	Loveland, 700 South Railroad Avenue
No plans		RMRL	Lakewood, Jefferson County Fair Grounds

X - means no official announcement from the sponsor so using last year's date plus one year.

Other Events

Date		Events/Location		
04/01/06		Arapahoe County ARES D22: Destination Imagination		
04/16/06		Easter		
05//06	X	Arapahoe County ARES D22: Leukemia Regatta		
05/07/06	X	Arapahoe County ARES22: Denver MS Walk		
05/14/06		Mother's Day		
05/19-21/06		Hamvention, Dayton, Ohio		
05/29/06		Memorial Day		
06/2-3/06		Arapahoe County ARES D22: NDMS Ops, West Slope		
06/9-11/06		ARRL Rocky Mountain Division Convention - Hamcon 2006, Estes Park		
HAMCON 2 0 6		Registration form included in this edition of the Repeater Rag The Editor		
06/10-12/06	X	Arapahoe County ARES D22: Metro Wide Exercise		
06/18/06		Father's Day		
06/24-25/06		Field Day		
06/24-25/06		Arapahoe County ARES D22: Fat Tire Classic		
07/8-9/06		Arapahoe County ARES D22: MS150 Bike Tour		
07/23/06		Arapahoe County ARES D22: Leukemia Regatta (tent)		
08/4-6/06		Great Plains Super Launch, Hutchinson, Kansas		
08/19-20/06		Arapahoe County ARES D22: Rattlesnake Triathlon		
09/04/06		Labor Day		
09/9-11/06	X	Arapahoe County ARES D22: MS Challenge Walk		
11/23/06		Thanksgiving		
12/1-2/06		Parade of Lights, Denver		

X - means no official announcement from the sponsor so using last year's date plus one year.

Compiled by NØLP with lots of help. Please send any updates or corrections to n0lp@arrl.net.

DRL IRLP INFO

This document is for DRL members eyes only. Oooh Secret! Just don't want this to get into the hands of any hackers.

DRL IRLP is the Denver Radio League's Internet Radio Linking Project. This document attempts to explain changes in the repeater software to accommodate the linking and user interface to the IRLP computer which is not located at the repeater site. The IRLP computer which is connected to the internet via a special card is linked to the repeater via a transceiver. This radio transmits into and receives from the repeater just like another user.

One of the requirements of being connected to the network is that repeater CW Ids, courtesy tones, beeps or bopes not be sent over the network. You are allowed to send DTMF tones, but these are filtered out before they get to the network. The DRL 449.600 repeater has been upgraded awaiting the IRLP ground station. The repeater software was installed before the first snow. We hope the software is ready with no mistakes.

Lets take an example of what should take place to make a connection. The user must first send, via DTMF tones, a 3-digit access code followed by the 4-digit node code (indicating where they want to be connected). There is no need for a * (as when putting the repeater in net mode). The first digit of the access code must be zero as this allows the cmd (command) string to pass through the repeater un-muted and disregarded by the repeater. This command string is for the IRLP ground station. If the tones were muted, the ground station would not hear them.

If the string is received ok, the ground station will send a proper command string to the repeater to put it into IRLP mode. If the ground station would have been turned off or something else wrong, nothing happens. If everything works ok, the node you requested

should announce itself in a few seconds.

When the repeater is put into IRLP mode the following changes take place:

- The CTCSS tone is ONLY sent when a carrier is received by the repeater. This is done to prevent any IDs or tones from being heard at the ground station.
- The timeout timer is increased from 2 minutes to 3 minutes.
- The hang time is increased from 3.9 seconds to 6.5 seconds. This allows the remote station to pick up so the repeater won't keep turning off between transmissions.
- There is a special courtesy tone to remind anyone locally that you are in IRLP mode. The tone will not be sent over the network

When disconnecting from IRLP mode, the same command is sent by the user except no ID node is needed. This command is sent through the repeater just like the connect command. The ground station will send a disconnect command to the repeater to take it out of IRLP mode.

DRL repeaters don't normally require that a CTCSS tone be used to access the repeater, but when using IRLP mode, it is required. This keeps noise off the network. When using a CTCSS decoder, if you have it turned on, you will not hear the courtesy tones or the CW ID. It might be better if you have it turned off. The CTCSS is used for the benefit of the ground station, not the user.

As a suggestion, you might want to program a separate memory channel to use for IRLP with the CTCSS encoder turned on and the decoder turned off.

Bob Schellhorn, NØTI

The Accident Report

Dear Sir:

I am writing in response to your request for additional information for block number 3 or the accident reporting form. I put "poor planning" as the cause of my accident. You said in your letter that I should explain more fully and I trust the following detail will be sufficient.

I am an amateur radio operator and on the day of the accident, I was working alone on the top section of my new 80 foot tower. When I had completed my work, I discovered that I had, over the course of several trips up the tower, brought up about 300 pounds of tools and spare hardware. Rather than carry the now un-needed tools and material down by hand, I decided to lower the items down in a small barrel by using a pulley, which fortunately was attached to the gin pole at the top of the tower.



Securing the rope at ground level, I went to the top of the tower and loaded the tools and material into the barrel. Then I went back to the ground and untied the rope, holding it tightly to insure a slow decent of the 300 pounds of tools. You will note in block number 11 of the

accident reporting form, that I weigh only 155 pounds.

Due to my surprise of being jerked off the ground so suddenly, I lost my presence of mind and forgot to let go of the rope. Needless to say, I proceeded at a rather rapid rate of speed up the side of the tower. In the vicinity of the 40 foot level, I met the barrel coming down. This explains my fractured skull and broken collarbone.

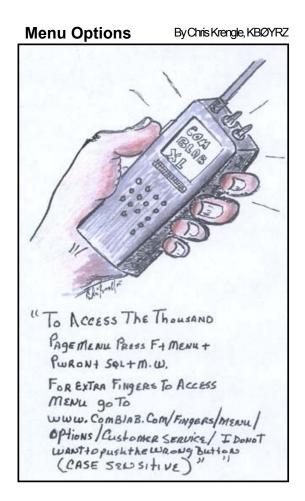
Slowed only slightly, I continued my rapid ascent, not stopping until the fingers of my right hand were two knuckles deep into the pulley. Fortunately, by this time, I had regained my presence of mind and was able to hold onto the rope in spite of my pain.

At approximately the same time, however, the barrel of tools hit the ground and the bottom fell out of the barrel. Devoid of the weight of the tools, the barrel now weighed approximately 20 pounds. I refer you again to my weight in block number 11. As you might imagine, I began a rapid descent down the side of the tower.

In the vicinity of the 40 foot level, I met the barrel coming up. This accounts for the two fractured ankles and the lacerations of my legs and lower body. The encounter with the barrel slowed me enough to lessen my injuries when I fell onto the pile of tools and fortunately, only three vertebrae were cracked.

I am sorry to report, however, that as I lay there on the tools, in pain, unable to stand and watching the empty barrel 80 feet above me ... I again lost my presence of mind. I let go of the rope.

73, Russ, KAØULN





Edge of Space Sciences

Join us as Edge of Space Sciences (EOSS) celebrates 15 years of high altitude educational balloon experiments by launching Flight #100!

EOSS is a non-profit Colorado organization consisting of scientists, amateur radio operators and educators who promote the sciences by utilizing amateur radio and high altitude balloons to conduct missions at the edge of space. Over 21,000 high school and university students have participated in exploratory and experimental balloon flights as a direct result of EOSS inspiration over the past 15 years.

This event is an opportunity to recognize the contributions of balloon pioneers from around the nation and within EOSS. Hosts for this launch, ceremony and party are the kind folks at Intrado, Inc in Longmont, CO. Here are the details:

WHAT: EOSS Flight #100. There will be a short recognition ceremony before the launch. Everyone can enjoy the launch and then move indoors. During the flight, you will be hosted in the multi-media auditorium while EOSS flight control personnel manage the flight. They will present the flight status, tracking and recovery operations and amazing video on many large media screens. Balloon pioneers from around the nation will offer comments and insights. The payload will be returned by helicopter and the wrap up party will begin. Food and drinks will be provided by our generous hosts, Intrado.

WHEN: Saturday, November 12, 2005. Rain or snow date is Sunday, November 13, 2005

6:30 a.m.	Pre-flight process, student experiment staging, flight string tests, balloon inflation	
6:30 a.m. – 8:30 a.m	:30 a.m. – 8:30 a.m Breakfast feast starts - please RSVP	
7:15 a.m 7:30 a.m.	Recognition ceremony at launch site	
7:30 a.m.	EOSS 100 Launch!!	
7:30 a.m. – 12:00 a.m.	Flight management and recovery in mission control center	
12:00 p.m 2:00 p.m.	Wrap-up party and reception starts - please RSVP	

WHERE: Intrado Headquarters, 1601 Dry Creek Drive, South East Parking Lot, Longmont, CO 80503

Talk-in 147.225, PL 107.2, 146.58 Simplex

DINNER FRIDAY NIGHT: Gather with us at the Armadillo Restaurant for an informal "gab and eat" on Friday night, October 11 at 7:00. The location is: 700 Ken Pratt Blvd, Longmont, CO 80501-6452, (303)-651-1116. The Armadillo provides very good Mexican cuisine at a reasonable price. If you plan to attend the informal Friday night dinner, please indicate how many will be attending so we can adjust the reservations.

LODGING: For those of you wishing to stay Friday night in Longmont, the official event hotel will be the Marriott Courtyard, 1410 Dry Creek Drive, Longmont CO 80503, (303)-682-1166. \$89 per night does not include breakfast. This facility is right across the street from the launch site - a nice walk on a beautiful morning.

There is also a Days Inn nearby at 3820 Highway 119, Longmont, CO 80501. \$78 per night.

RSVP: If you think you can attend this event, please send an email to Jennifer Laverty, <u>jlaverty@Intrado.com</u>. Advise us how many will be in your party which will help us plan for ample food and refreshments.

EVENT COST: Simply bring your intent to enjoy the flight and the hospitality offered by EOSS and our friends at Intrado.

FOR MORE INFORMATION: Contact Jim Gifford at <u>KOLOB@ARRL.NET</u>. Check <u>www.eoss.org</u>, and select Upcoming Flights.

We hope to see you there!!!

2006 ARRL ROCKY MOUNTAIN DIVISION CONVENTION REGISTRATION FORM

"AMATEUR RADIO - FACING THE FUTURE"

June 9, 10 and 11, 2006

LOCATED IN THE BEAUTIFUL ROCKY MOUNTAINS AT Estes Park, Colorado

ANOTHER MAJOR DIVISION CONVENTION FEATURING A LARGE VARIETY OF INTERESTS WITHIN AMATEUR RADIO Many high profile personalities plan to attend this convention including the following:

~ FRIDAY NIGHT KEYNOTE ADDRESS SPEAKER ~

Brian Mileshosky, N5ZGT, Vice Director, Rocky Mountain Division, ARRL

 \sim Saturday Ladies Luncheon Guest Speaker \sim

TBD

~ SATURDAY NIGHT BANQUET GUEST SPEAKER ~

Riley Hollingsworth, K4ZDH, FCC Special Counsel for Enforcement

 \sim Sunday morning ARRL Badge Breakfast Guest Speaker \sim



Harold Krame	r, WJ1B, ARRL Chief Op	erating Officer, & QST Publisher
ACTIVITI	ES AND EVENTS	ACCOMMODATIONS
Additional items may be added Amateur Radio Emergency Service (American Radio Relay League (ARI BARC Juniors Contesting includes a Transmitter Hi Digital Modes – General Digital Modes for Traffic Handling DX EOSS Facts and Myths of RF Grounding Low Band Propagation (for current s NVIS Antennas QRP Saturday evening Social Hour – An o Saturday Midnight - Wouff Hong VE Exams What Do Receiver Specs Really Mer See www.hamcon for complete forums, speake	ARES) RL) unt unspot low) ppportunity to meet fellow hams! (an "enlightening" adventure!) un? ucolorado.org	Holiday Inn Estes Park Conference Center 101 South Saint Vrain Avenue (Colorado Hwy. 7 at US Hwy. 36) 1-800-803-7837 or 1-970-586-2332 www.rockymountainparkinn.com Reservations \$82.00 + tax Single or Double Occupancy: Request the "Special ARRL HAMCON Rate" Place your reservations today! Special Rates are good until 05/19/06 only! Estes Park RV/Campground - 1-800-562-1887 www.koa.com/where/co/06113.htm Estes Park General Information For shopping information, things to do and see 1-800-443-7837 or www.estespark.us
EARLY BIRD (prior to March 1, 2006): \$10.00/Adult \$ 5.00/age 17 and under	ADVANCED (prior to May 15, 2006): \$12.00/Adult \$ 6.00/age 17 and under	beginning at 0900 Friday, June 09, 2006 \$15.00/Adult \$ 7.00/age 17 and under

Name:		Call Sign:		Tech Session Speaker? ✓one: Yes No	
Additional Attendees (w/o	call sign if applicable – full name	s are a must):			
Name:	Call Sign:	Name:	Call Sign:		
Name:	Call Sign:	Name:		Call Sign:	
Address:		City:			
State:	Zip Code:	Phone:		_ (include area code)	
E-mail:		(for registration confirm	nation)		
* Frid	Youths: (17 and under <u>must</u> be ac ay Night Keynote Address ~ Brian Saturday Ladies Lunch	Adults:	Free to all	Total =	
Si	Banquet ~ an evening with Riley Ho unday ARRL Badge Breakfast ~ H (EYNOTE ADDRESS AND SATURDAY)	llingsworth, K4ZDH:arold Kramer, WJ1B:	x <u>\$32.00 ea</u> <u>\$15.00 ea</u>	= = = = = = = = = = = = = = = = = = = =	

MAKE CHECK OR MONEY ORDER PAYABLE TO HAMCON COLORADO, INC.