

# The Repeater Rag

## Volume 32 Number 1

NEWSLETTER OF  
THE DENVER RADIO LEAGUE

**A CLUB DEVOTED TO  
QUALITY AMATEUR RADIO**

Published in Centennial, Colorado

**EDITOR**

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**DRL BOARD MEMBERS**

Tim Armagost, WBØTUB, President

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Curtis Willoughby, KAØVBA, Member at Large

George Stoll, WAØKBT, Repeater Trustee

**REPEATER LOCATIONS:**

146.88Ø ..... Warren Mountain

146.64Ø ..... Centennial Mountain

449.6ØØ ..... Lockheed Martin Company

145.Ø5Ø ..... Digi - Lockheed Martin Company

**Repeater Identifier: WAØKBT**

DRL website: [www.denverradioleague.org](http://www.denverradioleague.org)

or [www.eoss.org/drl](http://www.eoss.org/drl)

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

### MEMBERSHIP DUES AND RENEWALS

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

**Remit to: Lisa Hurdlebrink KØLMH**

**9728 Laredo Street, #27C**

**Commerce City, Colorado 80022**

**For information, contact Lisa at:**

**303-475-6866 or on the 146.88Ø Repeater**

**MEMBERSHIP MEETING**

**REMINDER**

**TUESDAY, FEBRUARY 24, 2009**

**7:00 TO 9:00 P.M.**

**BEMIS PUBLIC LIBRARY**

- 
- HAMCON COLORADO 2009!
  - MEETING PROGRAM & PRESENTATION
  - AL COOLEY, NØAUS, TREASURER
- 

**HAMCON COLORADO  
2009!**



Once again, The Denver Radio League is one of the proud sponsors of HamCon Colorado 2009!

The dates will be May 29, 30 and 31, 2009 and the location will be in Estes Park.

The HamCon Committee has been working very hard to put together great speakers and activities and events. A registration form has been included in this publication so you can sign up today and enjoy the Early Bird Registration Rate! Retain the activities and events page for reference. There will also be many prize drawings throughout the event. This will be a great time to get reacquainted with hams of the past and with new hams who attend! Sign up today!

The Convention Committee has negotiated a great room price at the Holiday Inn for \$89/night! You can register *now* by calling the Holiday Inn at 1-800-803-7837 and request the "Special ARRL HamCon Rate". Planning on camping? Contact the Estes Park RV/Campground at 1-800-562-1887 (no special rates).

Visit <http://www.hamconcolorado.org/> for upcoming details and on-line registration.

**FEBRUARY MEETING PROGRAM  
& PRESENTATION  
“WIRELESS TECHNOLOGY IN THE ELECTRIC  
DISTRIBUTION GRID”  
GEORGE STOLL, WAØKBT**

The high cost of energy and the push to better manage consumption – for both economical and environmental reasons – is making the management of retail electric energy more important. A variety of electronic and wireless technology solutions are making this possible and may soon be in your home, for example, the little box in our photo. These include a variety of devices that provide automatic meter reading, time of day electric pricing, interruptible rates and more - plus the ability for the utility to send signals and communicate directly with you and some of your home appliances, not to mention the ability to control wind, geothermal, or solar energy generators at your residence.



*Looks like a thermostat doesn't it? But its not...  
...join us for more about this and other  
wireless devices that may become common in your home.*

Our program will include an overview of some of the technology being tested and in some cases, in full use at customer homes throughout the United States complete with some photos and diagrams.

About our presenter: George is a long time ham and member of DRL. He is President of an engineering company he started 14 years ago that specializes in the planning, design and project management of specialized telecommunications systems for electric and gas utilities. Several of his engineers specialize in fiber optics, microwave, radio or telephony systems. George is involved in all phases of the business but loves the wireless and radio technology. He authors a regular column in one of the trade journals and some of his photos and diagrams

will be excerpts from this series and other articles and classes. Don't miss a neat presentation.

**IF YOU DIDN'T GET THE WORD ...  
12/28/08**

Hello Friends,

Al Cooley, N0AUS, today asked Tim, Chris and Marty to share a sad but “true story” with his friends. Al has recently been in the hospital and learned that his heart and lung issues are causing systemic failures that will close the final chapter of his storied life within the next 4-16 weeks. He asked us to respectively share this information with his friends. Out of our respect for this situation, he would like conversations about his health issues minimized on the air. We thank Al for sharing this difficult news with his friends and hopefully we can help make this time easier for Al and his family. Please feel free to contact Tim, Chris or Marty for information regarding Al's ongoing health situation.

Al will be hanging around at home and will monitor 146.64. Give him a call or chat with him while you are driving to work or out and about. He plans to join us at breakfast next Saturday (1/3) to say “Hi”. Also, he would appreciate a call or for you to drop in with a cup of coffee (Starbucks regular brew) so he can tell those stories one more time. (Side note ... breakfast was GREAT!!!)

So let's be sure to remember Al and Liz in your thoughts and prayers during this difficult time.

Regretfully,

Chris, Tim and Marty



**AL COOLEY, AKA “RICKSHAW”, AKA N0AUS**



# 2009 ARRL ROCKY MOUNTAIN DIVISION CONVENTION REGISTRATION

“AMATEUR RADIO – RESILIENT, RELEVANT, READY!”

MAY 29, 30, AND 31, 2009

LOCATED IN THE BEAUTIFUL ROCKY MOUNTAINS AT  
Estes Park, Colorado



## Accommodations:

### *Holiday Inn Estes Park Conference Center*

101 South Saint Vrain Avenue  
(Colorado Hwy. 7 at US Hwy. 36)

#### Reservations

1-800-803-7837 or 1-970-586-2332

[www.rockymountainparkinn.com](http://www.rockymountainparkinn.com)

\$89.00/night + tax, Single or Double Occupancy:

**Request the “SPECIAL ARRL HAMCON RATE”**  
*Special Rates are good from 2 days before the  
Convention until 2 days after!*

### Estes Park RV/Campground Reservations

1-800-562-1887

[www.koa.com/where/co/06113.htm](http://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](http://www.estespark.us)

### HAMCON EARLY BIRD

(prior to March 1, 2009):

\$12.00/Adult

\$6.00/age 17 and under

**FREE** Convention Logo Pin

### HAMCON ADVANCED

(prior to May 15, 2009)

\$15.00/Adult

\$8.00/age 17 and under

\$3.00 Convention Logo Pin

### HAMCON AT THE DOOR

beginning at 0900 Friday, May 29, 2009

\$20.00/Adult

\$10.00/age 17 and under

\$3.00 Convention Logo Pin (while supplies last)

Please complete the registration form below, cut along dotted line, and remit to Registration Chairman at bottom of form.

1. Name: \_\_\_\_\_ Call Sign: \_\_\_\_\_ Tech Session Speaker? ✓one: Yes \_\_\_ No \_\_\_

Additional Attendees (w/call sign if applicable – full names are a must): \_\_\_\_\_ (Tech Session Speaker only, Free Registration)

2. Name: \_\_\_\_\_ Call Sign: \_\_\_\_\_ 4. Name: \_\_\_\_\_ Call Sign: \_\_\_\_\_

3. Name: \_\_\_\_\_ Call Sign: \_\_\_\_\_ 5. Name: \_\_\_\_\_ Call Sign: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_

State: \_\_\_\_\_ Zip Code: \_\_\_\_\_ Phone: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ (include area code)

E-mail: \_\_\_\_\_ (for registration confirmation)

	# Reg.	Early bird or Advanced	Total
<i>Tech Session Speaker only (spouse welcome), Free Registration:</i>	x	<i>Tech Session Speaker</i>	N/C
Adults:	x	\$12.00 or \$15.00 ea	
Youths (17 and under <u>must</u> be accompanied by adult):	x	\$ 6.00 or \$ 8.00 ea	
* Friday Night Keynote Address:	N/A	<i>Free to all</i>	N/C
Saturday HamCon Luncheon (Vegetarian Lasagna):	x	\$25.00 ea	
* Saturday Night Banquet (please make selection) {	x	8 oz. Ribeye Steak Dinner:	
		or 10 oz. Chicken Dinner:	
Sunday ARRL Elkhorn Buffet Breakfast:	x	\$20.00 ea	
<b>* Friday Night Keynote Address &amp; Saturday Night Banquet each include a MAJOR PRIZE drawing!</b>			<b>Total Due:</b>

**MAKE CHECK OR MONEY ORDER PAYABLE TO HAMCON COLORADO, INC.**  
**Remit to: VICKI KRENGEL, Co-Chairman, Hamcon 2009 Registration,**  
**2950 South Bannock, Englewood, Colorado 80110-1519**

Visit our web site at: [www.hamconcolorado.org](http://www.hamconcolorado.org)



**HAMCON COLORADO 2009**  
**ARRL ROCKY MOUNTAIN DIVISION CONVENTION**  
**“AMATEUR RADIO: RESILIENT, RELEVANT, READY!”**  
**May 29, 30, and 31, 2009**



**Located in the beautiful Rocky Mountains at Estes Park, Colorado**

*~ FRIDAY NIGHT KICKOFF SPEAKER ~ 5 TO 6 P.M. ~*

**BRIAN MILESHOSKY, N5ZGT, ARRL ROCKY MOUNTAIN DIVISION DIRECTOR**

*~ FRIDAY NIGHT KEYNOTE ADDRESS ~ 7 TO 8 P.M. ~*

**RILEY HOLLINGSWORTH, K4ZDH, RETIRED SPECIAL COUNSEL FOR THE FCC'S ENFORCEMENT BUREAU**

*~ FRIDAY NIGHT SPECIAL GUEST SPEAKER ~ 8 TO 9 P.M. ~*

**HAROLD KRAMER, WJ1B, QST MAGAZINE PUBLISHER AND ARRL CHIEF OPERATING OFFICER**

*~ SATURDAY TECHNICAL SESSION & BOOTH ~ SCHEDULE TO BE ANNOUNCED ~*

**MIKE GRUBER, W1MG, ARRL EMC ENGINEER AND CONTRIBUTOR TO "THE DOCTOR IS IN" QST COLUMN**

*~ SATURDAY HAMCON LUNCHEON GUEST SPEAKER ~ NOON TO 2 P.M. ~*

**SPEAKER TO BE ANNOUNCED**

*~ SATURDAY NIGHT BANQUET GUEST SPEAKER (Check website for confirmation) ~ 7 TO 9:30 P.M. ~*

**COL. BILL MCARTHUR, KC5ACR, NASA ASTRONAUT, SHUTTLE STS-58, STS-74, AND STS-92,  
ISS EXPEDITION-12 COMMANDER**

*~ SUNDAY ARRL ELKHORN BUFFET BREAKFAST GUEST SPEAKER ~ 8 TO 10:00 A.M. ~*

**GORDON HARDMAN, WØRUN, DESECHEO ISLAND 2009 DXPEDITION,  
3YØX PETER I DXPEDITION, ALPHA RADIO PRODUCTS**

**TECHNICAL FORUMS AND  
OPERATING SESSIONS (AS OF 1/29/09)**

- ✓ Amateur Radio Emergency Service (ARES)
- ✓ Amateur Radio License Exam
- ✓ American Radio Relay League (ARRL)
- ✓ Antenna Tower Safety
- ✓ APRS Intro & Advanced Topics
- ✓ Desecheo Island DXpedition
- ✓ D-Star Intro & Advanced Topics
- ✓ DXCC, WAS, & VUCC card checking
- ✓ DXing
- ✓ Edge of Space Sciences Student Presentations
- ✓ Federal Communications Commission (FCC)
- ✓ HamCon Buffet Breakfast
- ✓ HamCon Luncheon
- ✓ Lightning Safety
- ✓ Meteor scatter
- ✓ Mountain Topping
- ✓ Operate W1AW/Ø – HF, VHF/UHF, Digital
- ✓ Phoenix Lander
- ✓ Pileup Contest
- ✓ Prizes Daily!!!
- ✓ QLF Contest

- ✓ Receiver Performance
- ✓ Salvation Army Team Emergency Radio Network (SATERN)
- ✓ Satellite Operations
- ✓ Saturday Evening Social – Meet old friends and new hams!
- ✓ Saturday Midnight–WOUFF HONG—an “enlightening” adventure!
- ✓ Software Defined Radio (SDR) Intro & Advanced Topics
- ✓ Switching Power Supplies
- ✓ Test equipment
- ✓ “The Doctor is In” Technical Session
- ✓ Transmitter Foxhunt (BYO Equipment)
- ✓ VE Exams
- ✓ VHF Roving

Even more to come ...

Visit our web site at: [www.hamconcolorado.org](http://www.hamconcolorado.org) for additional information!

**FOR REFERENCE – PLEASE RETAIN (SUBJECT TO CHANGE)**