



ROUNDTABLE

PRESIDENT'S MESSAGE

By Bryan Steinberg – KB0A

It looks like the hot temperatures refuse to let go but Fall will be here soon. With that in mind most of us will use the cooler days to do a check of our outdoor antennas. Like each of our own equipment a small number of club members will be trying to finish up some antenna work, too. But in this case the antennas are mounted on 60 to 120 foot towers located along the Front Range, including some mountain tops. As usual, a busy summer has lead to a busier Fall with the repeater system work starting to back up. As you should be aware we lost our 147.33 MHz repeater site in Hudson, CO. We have been working to get the repeater back on the air at its new location on North Table Mountain. While we will lose some coverage into the foothills the new location should give us good coverage along the Northern Front Range. We have been trying to coordinate schedules to get the necessary people together to get this project done and hopefully will be able to complete it in September. Our Moto-TRBO repeater has been moved to Station 4 on Green Mountain in Lakewood. This was accomplished by implementing a microwave link between my house and that site. The link provides Internet access for the linked backbone of the DMR-MARC (<http://www.dmr-marc.net>) network.

If you are interested in assisting with any of these projects please stop by the Technical Committee meeting which starts at 6:30 PM right before our monthly club meetings. By the way, tower climbing is not a necessity, there's lots of ground level work to do. There are also other club positions where we can use assistance, see the article in this issue of the "RoundTable".

Speaking of the newsletter you will also find a couple of new, and hopefully regular items. The first is an acknowledgement of the new members who have joined in the past month. We hope that this will give members a chance to introduce themselves to these fellow hams at the monthly meeting. The other item is something Bill, W6OAV, and I are working on where we take a question that has been asked and felt that the answer may be of interest to the rest of the club. So we will publish the question and the answer. There is information on how to submit a question, or idea for an answer, in the column. And, all items are anonymous, so don't be afraid to ask anything. Your name won't be used.

Lastly, the September meeting is when we hold our annual elections. Of the eight club board members, four seats are up for election each year. In addition, the club officer (President, Vice-President, Secretary and Treasurer) positions need to be filled via election from among the eight board members. If you have any interest in becoming more active in the management of the club please come to the meeting and make your intention known.

Until next month...

Bryan – KB0A
President

INSIDE THE ROUND TABLE

August Meeting - What'd I Miss	Pg 2	Up Coming Events	Pg 5
September Meeting Announcement	Pg 2	Question of the Month <i>(NEW)</i>	Pg 6
Who's New	Pg 3	Calendar & Up Coming Events <i>(Cont'd)</i>	Pg 7
How'd We Do? Hamfest Report	Pg 4	DRC Information	Pg 8

AUGUST MEETING - WHAT'D I MISS

By Bill – W6OAV

ELMER MEETING

Bill, AC0VC, presented a Power Point covering the basics of packet. This presentation was designed to give the attendees an understanding of packet in preparation for N4ATA's BPQ presentation at the general meeting to follow.



Bill covered the following topics:

- Interfaces and software
- The functions provided by packet
- Options
- Callsigns, SSIDs and Alias's
- Network configurations
- Examples of various types of network connections

Bill's presentation was well received by the attendees. **Note:** AC0VC, N4ATA, KC0CZ and W6OAV, being retired and into packet for years, monitor the club's repeaters as much as possible and are very willing to answer any questions about packet or about any other issues.

GENERAL MEETING

There were 39 attendees at this month's meeting. Bryan started the meeting by giving an overview of the hamfest activities and what needs to be done to setup and conduct the hamfest. He then announced that the MotoTRBO repeater is operational at Station 4.

After introductions, the meeting was turned over to the guest speaker, Doug, N4ATA. Doug presented a Power Point covering BPQ, an application that allows a computer to be a node and a member of a worldwide digital packet network. Doug covered the following topics:

- The history of BPQ as developed by G8BPQ.
- Overview of what the BPQ sysop sees at the node console.
- Overview of the features provided by a BPQ node and the worldwide network:
 - o Worldwide functions: Keyboarding, BBS, Chat, Winlink, Node Listings.



- Access methods:

- o Telnet from a PC, smartphone, or any device supporting Telnet
- o VHF and/or HF depending upon the node's port configuration

Doug then gave a live demonstration via Telnet where he illustrated the various BPQ features provided by his BPQ system. Doug concluded the demo by connecting to Sidney Australia and checking out what stations were active there on that node's 40 meter port. Had time been available, Doug would have been able to connect, to and keyboard with, those 40 meter stations.

Writer's note:

Just to show the power of BPQ, during the several months I accessed the BPQ network from a netbook and/or a smartphone to "ham" while I sat waiting for planes in airports in Miami, Fort Lauderdale, San Diego, Las Vegas and New Orleans. I was able to check my 2 meter packet mailbox here in Denver, keyboard with packet friends on 2 meters in Denver, and all across the country via 20 meters and 40 meter via various telnet to RF gateways. As mentioned above several of us "packeteers" are available to answer any questions.

SEPTEMBER MEETING ANNOUNCEMENT

By Doug Talley

Doug Talley, CEO of Pixel Technologies, will give a presentation and demonstration of the highly reviewed RF PRO-1B active broadband shielded magnetic loop which is manufactured here in Golden Colorado. This antenna is a receive-only active loop which has been highly acclaimed for its capability to reject local RF noise and interference from sources such as power lines, fluorescence lights, computers, flat panels TV's, switching power supplies and other electrostatic interference.

Pixel Technologies is a leading manufacturer of antennas and systems for satellite radio, AM/FM radio, cellular telephone and amateur applications.

Doug is the co-inventor of one of the first cordless telephone systems developed in 1974 which helped revolutionize the telecommunications industry as we know it today. This patented technology (US Patent 4,039,760) was licensed to major corporations such as AT&T, Sony, Panasonic and many others. Prior to forming Pixel, Doug was the CEO and President of a unit of Rockwell International and Chief Technical Officer for divisions of AT&T and Liberty Media.

SEPTEMBER ELECTION MEETING

Part of this month's meeting will cover the election of four of the eight board members (each is a 2 year term). We will also elect the new club officers (President, Vice-President, Treasurer and Secretary) from among the eight members of the new board. Please consider stepping up to increase your participation in the club. Even if you aren't ready to be a board member or officer consider one of the other positions or assisting an existing committee chair. At the current time we are in need of a Emergency Communications Coordinator and a Training Coordinator. We are also looking for a new weekly Net Control. If you have an interest in either of these positions please contact the club president, Bryan Steinberg, KB0A. If you wish to assist an existing committee chairman please contact them directly. All contact information for club officers, board members and committee chairs can be found on the last page of the "RoundTable" and on the club website on the Club Officers page.



Who's New In The DRC

Starting this month, the "RoundTable" will contain a new article titled as shown above. The purpose is to welcome our new members and let the membership know who they are. If you hear any of the calls listed below on the repeater, please welcome them and make them feel comfortable on our repeaters.

WELCOME NEW MEMBERS

Mike Thomas	W0MKE
Carl Lippman	WH6ANH
George Schoenecker	KD0SKL
Harold C. Hurst	KD0PVN
Harold F. Hurst	KC0IFW
James Nollenberger	KG0AJ
Jason Smallwood	AC0UA
Mary Lippman	WH6BYL
Robin Roberts	KD0SUR
Zach Smallwood	KD0SGF
Carl Saueressig	KB9QDG
Ellie Van Winkle	N0QCX
Rip Van Winkle	NV0M
James McCoy	KS4DE
John Montalbano	W3SOF
William Thomas	WB9KPT
David Ebert	W0LNK
Gary Freeman	KD0SQA
Gary Zimmerman	W0ZIM
John Anderson	KF6AAR
Jolene Ebert	K0LNK
Leon Reichard	KI0XX

AUGUST TECH COMMITTEE REPORT

No Tech Committee Report this month.

DRC BENEVOLENT

Some of you may not be aware that the club has a Benevolent committee which is responsible for contacting members when they are hospitalized or have a loss in their family. The current chair of our Benevolent Committee is Carolyn Wolf. If you know of a member in such a situation please contact Carolyn. Her contact information can be found on the last page of the "RoundTable" as well as on the club website in the Officers section.

Personal Note: In May of this year my mother passed away suddenly. The loss was tremendous but on the other end of that scale when I received the card from Carolyn Wolf I was gratified to know that the DRC recognized my loss and shared it with me. Thanks You, George- AG0S

Note to new members: if you have recently joined and don't see your name & call here, we apologize if your information didn't get to the "RoundTable" in time for this issue. We will see you next month. Please come to the club meeting and join in the fun.



The Denver Radio Club
Is an ARRL
Special Service Club
Support your hobby
Join the ARRL TODAY



So HOW'D WE DO? DRC 2012 HAMFEST

By Bryan – KB0A

After all the planning and preparation another Hamfest has come and gone. Once again the DRC Denver Hamfest has been the most anticipated and most attended event within the ham community.



With the new configuration this year we had 114 tables, 21 more than previous years. We did not sell out, but we came pretty close. I believe we only had



about 4 tables that were not sold. We also smashed previous attendee records with over 530. This year we tried something new and turned the kitchen duties

over to the local Lions Club volunteers. It appears that they did a good job of handling the food service for us. It also freed up more of our members for assisting during setup, vendor setup and cleanup at the event.

During the event, Jack Ciaccia, WM0G, Colorado Section Manager presented two ARRL Rocky Mountain Division awards. One for Ham of the Year to Bob Sterner, KB0BS (Aurora, Colorado) and the other for Young Ham of the Year to Austin Schaller, KD0FAA (Boulder, CO). Congratulations to both of the award winners.



Our technical sessions were also well received this year with a record number of attendees. The topics included Summits on the Air (SOTA), Moto-TRBO Digital

Communications, Using Radio Mobile for Signal Coverage and a general New Ham session. Our VE team was also kept busy with about 15 new and upgrading hams taking exams.



My thanks go out to all the club members that assisted in preparing, setting up, cleaning up, giving seminars, being VEs and doing just about anything that needed to be done to make this a great Hamfest. I'd also like to



thank our local Ham Radio Outlet store for their support of the DRC and our hamfest by providing discounted and donated items to the club for our door prizes. Also, two of our vendors, Southwest Antennas and RT Systems each provided door prizes for the event.

Be sure to put next year's Hamfest on your calendar. It will be Sunday, August 18th, 2013 at the same location, Jefferson County Fairgrounds in Golden Colorado.



Editors Note: A very Special Thanks to Bryan – KB0A for the many years of unselfish hard work making the Hamfest better and better each year. Also, Thanks Michael – KUSX for taking the HAMfest photos.

Remember!
The Denver Radio Club Meeting
time has changed!
General Meeting start time is now
7:00PM

The Elmer Session starts at
6:30PM

HAM RADIO OUTLET
WORLDWIDE DISTRIBUTION

HRO 12 STORE BUYING POWER WORKS FOR YOU!!

www.hamradio.com

8400 E. Iliff Ave #9, Denver, CO 80231
303-745-7373 800-444-9476
24 HOUR FAX 303-745-7394
e-mail: denver@hamradio.com

UP COMING EVENTS

BEECHER ISLAND

MEMORIAL CELEBRATION

By Jim – K0TOR

Amateur radio special event station "N0B" will be operating from the historic Beecher Island battlefield in Yuma, County, CO, on the weekend of Sept 14-16, 2012. Ron Peterson, K0LMD will operate on a primary frequency of 14.268 MHz, with a backup at 7.268 MHz. Planned operation is from noon to 5pm on Friday, Sept 14, 8pm to Midnight, Saturday, Sept 15 and 8am to 11am and 3pm to 8pm on Sunday, Sept 16. A certificate is planned for check-ins.

See <http://www.nyx.net/~wboas/beecher.html> for more information.

TECH DAY 2012

On Saturday, September 15th, 2012 the W0TLM and PPRAA radio clubs are sponsoring a half day workshop from 9:00am to 2:00pm, for Technician class radio amateurs. It will be held at Tri-Lakes Monument Fire Administration Complex located at 166 Second Street, in Monument, CO. There will be five 15 minute presentations with 5 minute Q and A periods.

The topics will be:

- Youth DXpedition to Costa Rica
- Mountaintop Operating
- Home Station Setup
- Getting on the Air
- Radio Equipment 101

Also there will be 7 demonstration booths:

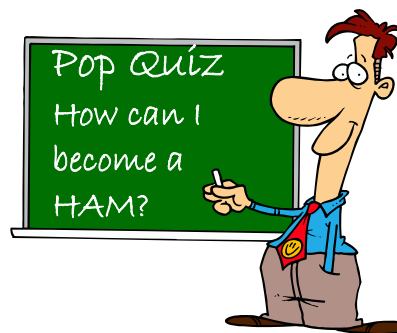
- Get Your Radio Programmed with Local Repeater Freqs by RT Systems
- Check Your Radio Performance
- See an HF Station
- Ask Any Question – The Elmer Booth
- Understand Mobile Installations
- Getting Your Ham Radio License
- Ham Radio & Public Service

For more details see <http://www.W0TLM.com>.

This should prove to be a great learning experience. Come join us.

Ham Radio Two-Day License Class

Two day Technician license class will be conducted on Saturday, Sept 29th and Saturday, Oct 6th from 8:00am to 5:00pm at Tri-Lakes Monument Fire Station #1. Registration required by 9/21/12. For more information go to <http://www.W0TLM.com>.



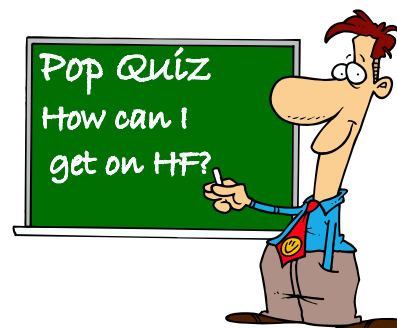
TECHNICIAN LICENSE CLASS

When: Thursdays, September 27th thru October 25 at 6:30PM
(for 5 consecutive weeks)

Where: Evergreen Fire Rescue Station #2; 1802 Bergen Pkwy, Evergreen, CO

Materials: HamRadioSchool.com Technician License Course by Stu Turner, W0STU (\$19.95)

Contact: Ed Mills (303) 524-5756 or email - impactci@aol.com



GENERAL LICENSE CLASS

Jim Beall, K0TOR is planning to conduct a General Class Ham course beginning in late Sept or early Oct. The course will run 13 weeks with VE testing on the 14th week. We will be using the ARRL General Class License Manual 7th edition, which is available at HRO. The day and location (southwest Denver) is to be determined. I'm hoping to select a day of the week that would best suit the students. Class is planned to be held from 7pm to 9pm. As further details are determined, I will pass them on through the DRC Sun night net, DRC Wed night learning net and DRC Sept meeting. For further information you can contact Jim, K0TOR at 303-798-2351 or email at k0tor@arrl.net.

Up Coming Events Continued on Page 7

QUESTION OF THE MONTH

By Bryan – KBOA & Bill – W6OAV

The "RoundTable" is starting a new column with the above title. We invite anyone to submit a ham radio related question and we will find someone who has the answer. Remember, no question is a dumb question. If you desire to have your call published with the question, we can do that. Send your questions to w6oav@arrl.net.

QUESTION

I am a technician trying to program a handheld. I have found 250 frequencies to monitor in the Denver/Front Range region. Most of those frequencies are repeaters that I've found in the ARRL Repeater book and Internet searches.

I can connect with about fifty of those repeaters and use them. I can listen to the ones that I can connect with, and there a few repeaters that I can hear but not speak to because I have a 5 watt handheld.

That leaves about 200 repeaters that I should be able to hear (even if I cannot connect with them) but I cannot. In fact, I've been tracking which repeaters are being used by local hams, and those 200 are not on that list.

Can you help to answer these questions:

1. How do I know which repeaters are only registered frequencies but no actual hardware in use?
2. How do I know if a repeater is private, not in use, turned off or doesn't exist.

I'd like to purge my programming software of repeater frequencies that don't exist and/or are not used anymore, but I don't know how to determine that.

How do your Club Members know when to remove a repeater from their programming lists?

Thank you!

ANSWER

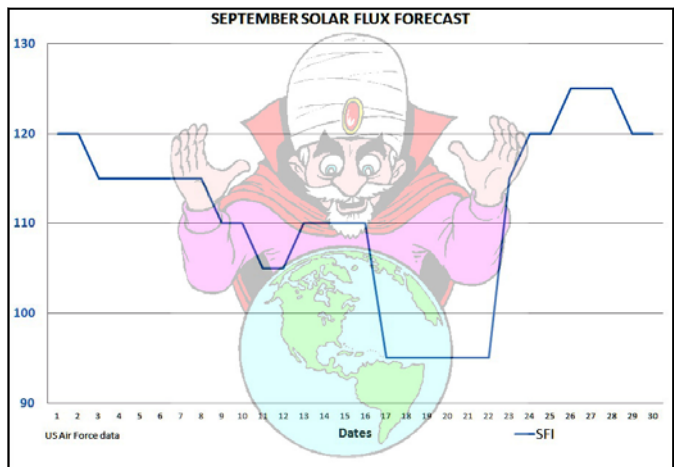
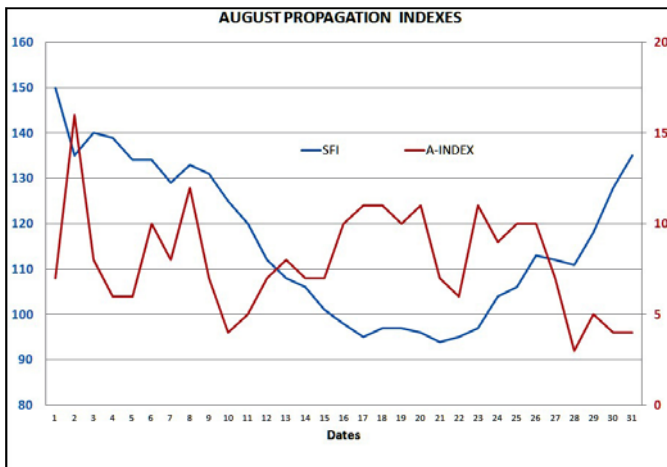
You've come across one of the dilemmas that Ham radio faces. As you mentioned there are a number of reasons why you cannot "hit" a repeater. The first, most obvious one is that you are out of range, or your signal is blocked and the 5 watts from your HT just isn't going to cut it. Another could be that the repeater requires a CTCSS (subaudible) tone in order to re-transmit the signal. It is possible that the correct tone is not listed or incorrectly listed in the repeater guide. Or, the repeater could be down for maintenance, upgrade, power outage, or some other technical problem.

Lastly, you have discovered the "paper repeater." Those are radios which the owners have requested coordination from the Colorado Repeater Coordinator, received an assigned frequency and never put a radio on the air. This has been a big problem for the ham community, not just in Colorado. The frequency Coordinator requires that a radio, once coordinated, be on the air within 6 months of receiving a frequency allocation and to remain on the air. Annually the FC contacts the Trustee for each located repeater to verify operation. There are strict guidelines for how long a system can be "off the air." However, it is a long process to remove the allocation once given. We recently did just that to a number of "paper repeaters" in Colorado. Hopefully, we will see those frequencies reassigned and activated before too long.

PROPAGATION CHARTS

The charts below show the Solar Flux and A indexes for last month and a forecast of next month's Solar Flux index.

Refer to the September 2010 "RoundTable" for more complete information on interpreting these charts. Issues of the "RoundTable" are available at www.w0tx.org.



© 2012 Denver Radio Club; All Rights Reserved; See Editor's Note for Additional Information

UP COMING EVENTS

NAØTC – 285 TechConnect Radio Club 2012 Fall TechFest

The 285 TechConnect Radio Club (NAØTC) is pleased to announce its 2012 Fall TechFest. This event will be held on Saturday, Nov. 3, 2012: 9:00am. - 4:00pm. Check-In: 8:00 - 8:45am at the Lakewood Elks Club, 1455 Newland Street, Lakewood, CO 80214 Pre-register is recommended by contacting k0nnc@arrl.net.

Topics include Homebrewing an HF Software Defined Radio, Doing a Lot with a Little (Low Power Contesting), Yagi Antennas and Antenna Design, D-Star Repeater Installation – Program Management Perspective, Using WSJT FSK441 for VHF Meteor Scatter, and Amateur Radio Emergency Services (ARES).

For more information go to: www.na0tc.org.

HAMFESTS & CONVENTIONS

The following are the HAMfests & Conventions which have been registered with the ARRL so far. More information can be found on www.arrl.org/hamfests.

September 23 – BARCfest

Boulder County Fairgrounds

<http://www.qsl.net/w0dk>

October 20 – Ski Country ARC's 2012 Hamfest

Glenwood Springs, CO

<http://www.k0rv.org>

November 3 – 285TechConnect Radio Club, Fall TechFest — More information at right.






<http://www.na0tc.org>

2013

May 31 – Rocky Mountain Division Convention

Rocky Mountain Park Inn, Estes Park, Colorado

<http://www.hamconcolorado.org>

September 2012							DRC Net Sunday's at 8:30pm Local on 145.490 & 448.625 (No PL)
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
						1	
2	3 Labor Day	4	5 Learning Net 7:30pm	6	7	8 ARRL VHF QSO Party Begins 1800U	 Last Quarter
9 Grandparent's Day 	10 ARRL VHF QSO Party Ends 0300U	11	12 Learning Net 7:30pm	13	14	15 ARRL 10GHz & Up Contest Begins 0600L	 New Moon
16 ARRL 10GHz & Up Contest Ends Midnight	17	18	19 DRC Meeting Elmer 6:30pm General 7:00pm	20	21	22 First Day of Autumn	 First Quarter
23/30	24	25	26 Learning Net 7:30pm	27	28 Native American Day 	29	 Full Moon

DRC BOARD OF DIRECTORS

President	KB0A	Bryan Steinberg	303-987-9596	kb0a@arrl.net
Vice-President	W0GV	Gerry Villhauer	303-467-0223	w0gv@arrl.net
Secretary	WW0LF	Orlen Wolf	303-279-6264	owolf@mines.edu
Treasurer	K0TOR	Jim Beall	303-798-2351	k0tor@arrl.net
Board Member	WG0N	Dave Baysinger	303-987-0246	wg0n@arrl.net
Board Member	K0HTX	Dave Gillespie	303-880-1938	k0htx@comcast.net
Board Member	KD0CXX	Paul Meenach	720-746-1488	TBD
Board Member	N3PQ	Frank Ortega	303-452-0283	n3pq@hotmail.com

DRC STAFF AND VOLUNTEERS

Trustee	WW0LF	Orlen Wolf	303-279-6264	owolf@mines.edu
Net Control	K0TOR	Jim Beall	303-798-2351	k0yor@arrl.net
TSA/EmComm Coordinator	KF0RW	Steve Cohan	303-818-7090	
Membership	KC0CZ	Bob Wilson	303-659-0517	kc0cz@comcast.net
Club Librarian	WG0N	Dave Baysinger	303-987-0246	wg0n@arrl.net
VE Team	KC2CAG	Tom Kocalski	720-493-1426	kc2cag@arrl.net
Swapfest Mgr	KB0A	Bryan Steinberg	303-987-9596	drcfest@comcast.net
Field Day	KF0RW	Steve Cohan	303-818-7090	
Tech. Committee Chair	W6OAV	Bill Rinker	Check Roster	
Benevolent		Carolyn Wolf	303-330-0721	
RT Editor	AG0S	George McCray	303-751-7246	ag0s@arrl.net
RT Assoc. Editor	W6OAV	Bill Rinker	Check Roster	
Education	KD0CXX	Paul Meenach	720-746-1488	elmer@w0tx.org
Web Master	N0LAJ	Bill Hester	Check Roster	

DRC REPEATERS

BAND	Freq / Shift / PL Tone	Additional Information
6m	53.090mHz (-1mHz)	
Packet	145.05mHz<>14.105mHz	
2m	145.490mHz (-) 100Hz PL	Linked to the 70cm - 448.625mHz machine.
2m	147.330mHz (+) 100Hz PL	Local Area, Members Auto-Patch Does Not TX a PL!
2m	147.330mHz (+) 131.8Hz PL	NE Area Remote Does Not TX a PL!
1.25m	224.380mHz (-) 100Hz PL	
70cm	447.825mHz (-) 100Hz PL	Saint Anthony's
70cm	448.625mHz (-) 100Hz PL	Linked to the 2m - 145.490mHz machine.
70cm	449.350mHz (-) 100Hz PL	Wide area coverage with Echolink Node # 4140.
70cm	446.7875mHz (-)	MotoTRBO Repeater Slot 1 – DMR-MARC WW, Slot 2 – Local

EDITOR'S NOTE

© 2012 Denver Radio Club; All Rights Reserved; Articles in the RT may be reprinted with permission for non-commercial or educational use.

DRC members - this is your newsletter. If there is something which is club or amateur radio related that you'd like to see as a regular feature, email suggestions to the editor. Members are the heart and sole of The Denver Radio Club, if you have an expertise or an interest in a particular segment of ham radio that you'd like to write about, you may email your submissions to AG0S@arrl.net. Submission deadline is the 25th of the Month. Editor