THE CODE OF THE WEST

UNIVERSITY AMATEUR RADIO CLUB N7UW
Department 3625
1000 East University Avenue
LARAMIE, WYOMING 82071
March-April 2005
http://picasso.uwyo.edu/uarc

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UARC MEETING

The next regular monthly meeting of the University Amateur Radio Club will be held Tuesday 5 April 2005 in room 2 on the lower level of the Wyoming Student Union building at 7:30 pm local time on the University of Wyoming campus. Talk in on the UARC repeater at 146.610 MHz 600 kHz standard negative offset.

This meeting room has been reserved for UARC through the spring academic semester. It is located in the west old original portion of the building immediately across the corridor from the passenger elevator.

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MESSAGE FROM THE PRESIDENT / COTW EDITOR John KD7NAE

This summer promises to be busy with a lot of local ham activities especially in the month of June. Hopefully we can pace ourselves and make these activities enjoyable while providing a valuable service where needed. Planned events include statewide ARES/RACES exercises on Saturday 11 June beginning at 9:00 AM Mountain time, support for a horse race Saturday and Sunday 18 & 19 June somewhere east of Laramie and Field Day / Dead Dog Classic Bike race support Saturday 25 June. July brings the Laramie Enduro mountain bike race at the Happy Jack area. More about these activities elsewhere in this issue and as information becomes available. Volunteer lists are already being assembled, so let us know if you would like to participate. 73s John KD7NAE

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UARC CALENDAR

2 April 2005 **LARCFEST 2005** Longmont ARC http://www.qsl.net/larc
Longmont, Colorado
Contact Brian Steege, K0BRS 942 Spencer Street
Longmont, CO 80501 Phone: 303-678-0406 or 303-678-8731
Email: larc@qsl.net

23 April 2005 **Northern Utah Hamfest** Ogden Amateur Radio Club
Browning Armory Building 625 East 5300 South Ogden, UT
http://www.ogdenarc.org/ Talk-In 146.82 (PL 123)
Contact Gary Liptrot, N7ZI 511 South 775 East
Ogden, UT 84404 Phone: 801-394-8793 Email: N7ZI@arrl.net

27-29 May 2005 **Wyoming State Convention** hosted by the Sweetwater ARC
Parkway Plaza 123 West E Street Casper, WY
http://www.qsl.net/wy7u talk-in 146.94
Contact Dave Gregory N7COA 1000 Dakota Street
Green River, WY 82935 Phone: 307-875-1716
Email: n7coa@arrl.net

11 June 2005 **Statewide Wyoming RACES Exercise beginning at 9:00 AM MST**
The exercise on UHF/VHF is designed to practice the things your local EMC will want you to be able to provide during an EMC directed exercise or incident. See www.wyomingraces.org and/or more info in this issue of COTW.

11 June 2005 **PPRAA Megafest** Pikes Peak Radio Amateur Association
http://www.qsl.net/ppraa
Talk-In: 146.970 (PL 100 Hz); 146.520 Simplex
Contact: Karolyn "Kate" Muniz, WB9BAH
13360 Cottontail Drive
Peyton, CO 80831
Phone: 719-683-7702
Fax: 719-636-9299
Email: wb9bah@elpasotel.net

18-19 June 2005 **Radio support for a horse race east of Laramie.** Volunteers are needed. More information as it becomes available.

25 June 2005 **Dead Dog Classic Bicycle Road Race** from Albany to Ryan Park through Centennial and over the Snowy Range. Bill AF7E is coordinating radio support again this year. The road race course appears to be the same as last year.

25-26 June 2005 **Field Day –** Based on preliminary discussion at the last UARC meeting we'll probably set up on Friday the 24th at Fox Park as we did last year, so bike race support crew can make it over for Saturday evening dinner. Volunteers for set-up, food, etc. are needed and everyone's participation and ideas are welcome.

29-31 Jul 2005 **Rocky Mountain Division Convention** Utah Hamfest Committee
http://www.utahhamfest.org **Talk-In:** 146.380/146.980
Contact: Ray Riding, AC7RR
77 North Tiebreaker Circle
Grantsville, UT 84029
Phone: 435-884-3217 Email: ac7rr@arrl.net

31 July 2005 **Laramie Enduro Mountain Bicycle Race** at the Happy Jack area east of Laramie. Route is being finalized with the Forest Service, but will be similar to last year's. Volunteers are needed. Contact John KD7NAE or Doris KD7RQX.

21 Aug 2005 **Denver Radio Club** http://www.qsl.net/w0tx/
Talk-In: 145.490 (-600KHz)/448.625 (-5MHz) 100Hz
Contact: Bryan Steinberg, KC0CUA
1011 South Foothill Drive
Lakewood, CO 80228
Phone: 303-987-9596
Fax: 303-987-2195
Email: kc0cua@arrl.net

26-28 Aug 2005 **MARC Campfest** Mountain Amateur Radio Club
http://nx0g.org/
Talk-In: 146.82 (no tone)
Contact: Melinda Wright, KC0QQO
84 Shavano Drive
Florissant, CO 80816
Phone: 719-748-0165
Email: melwright@ccvnet.net

Upcoming ARRL Special Operating Events of note include:

19 Mar 2005 **Macon, GA:** Macon Amateur Radio Club, W4BKM. 1500Z-2200Z **Mar 19**. 23rd Annual Cherry Blossom Festival. 21.335 14.240 14.055 7.055. Certificate. Macon ARC, PO Box 4862, Macon, GA 31208. **www.qsl.net/w4bkm**.

19-20 Mar 2005 **Virginia Beach, VA, and Moss, Norway:** Virginia Beach Amateur Radio Club, Inc, and Mossegruppen av NRRL, W4UG and LA5M. 1300Z **Mar 19**-2200Z **Mar 20**. 114th anniversary of the Norwegian Lady. US: 14.278 14.040 7.280 7.040 Norway: 28.363 21.192 18.164 18.145 14.278 14.070 (7.121 morning) 7.040. Certificate. US: VBARC, PO Box 62003, Virginia Beach, VA 23462. Norway: Haakon Andreassen, LA1YKA, PO Box 88, N-1501, Moss, Norway; include1 IRC and A4 envelope.

15-17 Apr 2005 **Trento, Italy:** Carabinieri On The Air (C.O.T.A.), II3CC. 0700Z **Apr 15**-1900Z **Apr 17**. XVI National Meeting ANC Associazione Nazionale Carabinieri. 28.500 21.280 14.280 7.070. QSL. Orlando Balisciano, IZ8DDG, Via Villa Bisignano, V Traversa no. 21, Napoli, Italy 80147. **www.cota.cc**.

22-24 Apr 2005 **Broken Arrow, OK:** Wayne Rumley Amateur Radio, W5R. 0000Z **Apr 22**-0000Z **Apr 24**. 50th anniversary of Rock and Roll. 21.250 14.250 7.250 3.850. QSL. Wayne Rumley II, WA5YNE, 12315 E 61 St, Broken Arrow , OK 74012.

23-25 Apr 2005 **Johnson County, NE:** Lincoln ARC, K0KKV. 1700Z **Apr 23**-1700Z **Apr 25**. Activation of rare Nebraska County during the NEQP. CW up 35 kHz from band edge; General portion of SSB bands. QSL. Greg Brown, 10800 W Mill Rd, Malcolm, NE 68402. **http://larc.unl.edu**.

22-24 Apr 2005 **Toad Suck, AR**: Faulkner County Amateur Radio Club, W5AUU. 1500Z-2200Z **Apr 30**. Toad Suck Daze Festival. 21.350 14.260 7.260. Certificate. Faulkner County ARC, PO Box 324, Conway, AR 72032. **www.w5auu.org**.

Refer to http://www.arrl.org/contests/spev.html for more ARRL Special Events

Upcoming contests include:

5-6 March 2005 ARRL International DX Contest (Phone)
11-13 June 2005 ARRL June VHF QSO Party
25-26 June 2005 ARRL Field Day
9-10 July 2005 IARU HF World Championships
6-7 August 2005 ARRL UHF Contest
20-21 August 2005 ARRL 10 GHz and Up Contest

see http://www.arrl.org/contests/calendar.html for more info including contest rules

David J. Warrington, WW4MM, SK

David J Warrington WW4MM died on or about 17 February 2005 in Cheyenne, Wyoming. David was an avid hot air balloon pilot, active ham and a producer for Wyoming Public Television for several years. He died while pulling camera cable after a live production in Cheyenne.

David produced many programs for WPT, but will probably be remembered most for the program Wyoming Voices, according to Bob Spain, WPT Director of Engineering. He was active in the Fremont County Amateur Radio Society.

David was 50 years of age. He was a graduate of Radford College in Virginia. He is survived by his parents and wife of 25 years - Darleen. Our sympathies to David's family and friends.

RACES information from Tom Dodson, KF7VR, State RACES Officer

Reprinted from www.wyomingraces.org - the state RACES web site

Date of this information: 2/7/2005

Questions have come up on who selects and replaces ARES/RACES volunteer in charge amateur. If it is within the county, the county Emergency Management Coordinator (EMC) will be the selecting and replacing person. Their choices will be supported by the State Communication Officer and the State RACES (Radio Amateur Communications Emergency Services volunteer)
We highly recommended that the appointees be given the joint position of ARES/RACES to maximize the ability to overlap those two agencies.

RACES is being reorganized. New applications will be sent to all. The will be new area break downs so all existing RACES appointments will be cancelled and new recommendations made by EMC's within those areas. State RACES will support the recommendations of the EMC's from that particular area. The new applications will be different than what is currently on WyomingRaces.org web site.

A state wide exercise is scheduled for June 11, 2005 beginning at 9:00 A. M. Mountain time. It will include HF and UHF. The exercise on UHF/VHF is designed to practice the things your local EMC may want you to be able to provide during an EMC directed exercise or incident.

If your amateur radio emergency team wants to demonstrate things to the EMC, this is the time. The EMC will not be running this exercise (amateur radio operators will) so he or she will be able to look at other items that you might want them to incorporate into an exercise or incident that they are running. Please do not expect them to incorporate things that they have not had a chance to preview.

The ARES/RACES volunteer in charge should be doing some preliminary items such as:

- Asking their EMC what he/she would like to see practiced.
- Preparing a call up list to give to the EMC. Do preliminary training to the amateur emergency team so that they know how to call up the rest of the team.
- Give assignments to amateurs so they know where to go for this exercise and for other exercises or incidents.
- Drill on practicing saying "This is an exercise." before and after each transmission.
- Explain how to determine who is to be net control for the exercise.
- If an emergency comes up, or a priority communications need, preface that transmission with the words "Real Life" followed up the transmission. End that transmission with "Real Life" If appropriate, the exercise will be suspended as long as necessary for this real life assistance.
- Determine what things are going to be demonstrated to the EMC. Make sure these items have been practiced by the amateurs who are going to demonstrate the communication practice or the new technology.
- Determine if there are adequate amateur emergency operators in your area. (If not you may need to see if there are amateurs from other areas that you could borrow and make a list containing how to contact them. You may also need to plan to have someone hold classes to

get new amateurs in your area. Contact RACESTom@Wyoming.com for ideas and assistance).

- Use professionalism on all exercises and incidents but also enjoy what you do.

Activities on HF will include reporting in from each Emergency Operations Center (EOC) or other area where your Emergency Management Coordinator (EOC) expects you to set up a net control. Wyoming RACES will be taking check-ins on 3923.5MHz, 7260 MHz, or a 20 meter frequency to be determined later. There will be a monitoring of the unused frequencies in case band conditions deteriorate to the point of total unusability for a participating station on a particular band. There will be check in requesting information on what type of equipment and its portability/mobility. We will need the following types of information for each station:

- Are you an ARES member?
- Are you a RACES member?
- Operating privileges of station licensee?
- Operating frequency range of equipment?
- Power levels?
- Antennas frequency range?
- Fixed station location?
- Can you operate mobile?
- On what frequencies?
- At what power?
- Can you operate portable?
- On what frequencies?
- At what power?
- What modes can you operate from your fixed station?
- What modes can you operate from your mobile station?
- What modes can you operate from your portable station?

Questions have been asked about how to do emergency communications if an incident came up. On November 4th, Laramie County had a county wide exercise. It was set up as a terrorist act that resulted in a train being derailed and a major chemical spill of an undetermined item (later verified to be chlorine gas) and a bomb.

The following basic sites were set up.

- Union Pacific had a command car set up since this was on their property. (Brian McNutt, KD7KXD, is ARES/RACES amateur in charge and he made the various assignments).An amateur operator was assigned to this center.

- Laramie County Mobile Emergency Center was moved to this incident location and was also manned by an amateur. This position became the net control, but this will change in the next situations.
- The fire department was in charge and took over this site at the Union Pacific train derailment. They also set up a portable weather station. This location was where the incident commander was in charge of dealing with the problems.
- The Emergency Operations Center (EOC) was in the basement of the police station. The county EMC was at this center as was the Public Information Officer (PIO). Two amateurs were manning this position. (This is where the net control operator position will be in the future to facilitate more direct communications).
- Another amateur was sent to the Cheyenne National Weather Service where the Sky Warn amateur station was located. (Since the fire department had a portable weather station at the incident location, we didn't expect to need information from here. We were wrong!).
- An amateur was assigned to the Red Cross. The Red Cross set up shelters and we were prepared to send hams to each shelter.
- A ham was assigned to the Salvation Army canteen that was set up too near the incident center (more hazmat concerns).
- The hospital was set up as a decontamination point and a treatment center. A ham was placed at the amateur station that was at the hospital.
- We had a team of amateurs located at the only barricades required for this incident.
- There were two teams of roving hams set up to go where ever directed, and more hams alerted that they might need to become roving hams. One of the teams was inadvertently sent into an area suspected to have chlorine gas blowing into that area. (Shows the need for hazmat training.)

What were problem areas with this incident?

- Since information and instructions were going into and out of the permanent EOC, (also the location of the PIO), this position should have been net control. It might appear that information and instructions would be more appropriate from the incident center, but the fire department had their own communication system. They did a good job of department communicating but ignored the needs of the EOC EMC. Hams on location were able to provide this information. Originally the EMC thought he would be able to get information from the 911 center. Two problems were identified. First 911 was interested in doing their job and often forgot to pass info to the EMC. (Sometimes the other commanders had not passed information on to the 911 center). The 911 center was not on the same floor as the EOC so the EMC could not eavesdrop when needed. Second, at times 911 was overloaded and could not get essential information. On site hams were able to provide this information to the EMC.
- Our preparedness at the Weather Service allowed us to obtain and instantly pass on information about projected wind directions (15 minute projections). This showed a need to send someone into the area to communicate any problems. I directed a roving team to this area, as requested by EMC, without adequate planning for their safety.

- Inadequate call up procedures were made by the EMC partly due to our not having provided a call-up list for him and for 911 personnel.

Until I have time to get more detailed information, here are suggestions on what should be set up for an exercise. If you already have a comparable list, use your list because you know the needs of your area much better than I would.

- Consult with your county EMC to see what he/she wants hams to do.
- Advise your team to have a 24 hour and a 72 hour call out kit. Info and suggestions available on ARRL website.
- Prepare a call-out list and give it to appropriate people and your team members (EMC, etc).
- On a call-out make sure that amateur team members know where to go.
- Man every site that EMC wants covered.
- Man sites that might be important (don't trespass or enter areas without their ok) to an EMC so that if he/she comments that they could use info from those locations, you can provide that info quickly. (Do not force this information and service on the EMC).
- Have some roving teams of your more reliable hams so you can flexibly and competently provide previously unidentified service needs.
- Follow strict net protocol- be professional.
- Evaluate after the exercise to see where improvements could be made.
- Enjoy providing this service to the public.

BPL RECONSIDERATION PETITIONS FILED; LEAGUE CEO SAYS COURT APPEAL PROBABLE *reprinted from the ARRL email newsletter 11 Mar 2005*

More than a dozen petitions for reconsideration have been filed in the wake of the FCC's October 14, 2004, Report and Order (R&O) adopting new Part 15 rules governing broadband over power line (BPL) deployment. They include the ARRL's February 7 Petition for Reconsideration <http://www.arrl.org/announce/regulatory/et04 37/recon_petition/>. ARRL CEO David Sumner, K1ZZ, has expressed little confidence that the FCC will make any substantive rule changes in response to any arguments put forth in the petitions for reconsideration. In a March 1 interview with Marc Strassman of Broadband over Power Line World (BPLW) <http://www.etopiamedia.net/bplw/audio/sumner2.0.wma>, Sumner predicted that the BPL proceeding ultimately will wind up in court.

"Realistically, do we expect dramatic changes in the Commission's rules as a result of the reconsideration petitions?" Sumner asked in concluding the interview. "Probably not. So we're probably looking to the Court of Appeals before all the dust settles."

In his interview with Strassman, Sumner discussed the League's petition, which calls on the FCC to "reconsider, rescind and restudy" its unanimous adoption of the new Part 15 BPL rules last October.

Strassman also interviewed Associate Counsel Brett Kilbourne of the United Power Line Council (UPLC), an

organization promoting BPL development that also filed a reconsideration petition. Among other things, Kilbourne conceded to BPLW that Amateur Radio complaints and concerns raised about RFI from BPL could hinder BPL rollouts.

"Yeah, my concern is that you're going to have--whenever there's a deployment--people complaining automatically," Kilbourne said. "To the extent that does happen, that's going to discourage folks from getting into this phase, I would think."

In its reconsideration petition, the UPLC calls on the FCC to not require 30-day advance notice of BPL operations. It also wants the FCC to extend the 18-month transition period that applies to marketing or installation of equipment.

The various petitions for reconsideration came from BPL industry groups and proponents as well as from the League and other organizations and individuals concerned about BPL's interference potential. All petitions for reconsideration filed in the two BPL-related proceedings--ET Docket 03-104 and ET Docket 04-37--are available for viewing via the FCC's Electronic Comment Filing System (ECFS) <http://www.fcc.gov/cgb/ecfs/>.

Interested parties must file opposition comments ("oppositions") to the petitions by March 23, which is 15 days of the March 8 public notice of the petitions in the Federal Register. A 10-day period to file replies to oppositions follows. Those wishing to file oppositions to specific petitions may use the ECFS to do so, but comments supporting one petition or another are not welcome, ARRL General Counsel Chris Imlay, W3KD, points out.

"Individual radio amateurs are welcome to file oppositions on any petition with which they have specific issues," he said, adding that commenters should support their points with facts and statements. "All statements should be specific to one or more arguments in a reconsideration petition with which the person filing an opposition disagrees," Imlay explained. "They should not simply say, 'I oppose this petition.'"

Among other reconsideration petitions were those filed on behalf of BPL manufacturers Amperion and Current Technologies; Donald G. Everist, a professional engineer; the National Antenna Consortium; Aeronautical Radio Inc; the American Petroleum Institute; the Association for Maximum Service Television; G. Scott Davis, N3FJP; W. Lee McVey, W6EM, a professional engineer; Steven E. Matda, KE4MOB, and Cortland E. Richmond, KA5S.

Imlay says the ARRL is reviewing all petitions for reconsideration filed in the BPL proceedings to see if any oppositions from the League will be required.

UARC Meeting Minutes 1 February 2005

Call to Order:

The February meeting was called to order by President John KD7NAE at 7:37 pm in room 2 of the Wyoming Union. 11 members were in attendance; all officers were present. Those attending were: Jim Johnson KD7KMU, Bill Frazier N7SXC, Paul Pheneger W7MO, Wayne Sutherland NQ7Q, William Wright AF7E, Jerry Tastad N7JT, Doug Wheeler KD7W, David Rush KY7DR, Suzanne Luhr AA7AY, John Harrison KD7NAE, and Doris Hutcheson KD7RQX.

Jerry N7JT has some books from Dave Worley W7KY to be given to the club or sold at a ham fest.

Reports:

Treasurer's Report-Suzanne AA7AY reported the following:
Regular account balance: $533.16.
Maintenance fund balance: $876.42.
High Plains Roundup: $642.34

John KD7NAE still owes the club $50 for a tower section and Jim Petty owes the club $50 for tower sections purchased for LPATVA

Communications:

John KD7NAE reported that he had received the club World Radio subscriptions.

Old Business:

Upcoming club events were discussed, including Field Day and the Dead Dog classic bike race both on Saturday, June 25th.

Paul reported that he had been contacted by Bob Atherton to provide support for a horse endurance race in area of Pole Mountain and Blair/Wallace campground in mid-June. Doris KD7RQX volunteered to contact Mr. Atherton.

The Laramie Enduro mountain bike race will be held Sunday, July 31st.

High Plains Roundup will be in September, hosted by the Shy-WY club.

In mid-October there will be a Scouts Jamboree on the air.

John KD7NAE will investigate submission of forms for the club's tax-exempt status and a continuation of the fee waiver for the repeater site on Forest Service land.

There was a discussion about erecting a repeater for another band between Laramie and Cheyenne and the history of the current repeater. The site was originally developed by the Wyoming Amateur Repeater Society and the building was erected primarily by UARC members. Jerry N7JT has a scrapbook of the construction. When WARS became defunct, UARC agreed to pay the site fees and Shy-Wy agreed to maintain the repeater.

There was a discussion of ways to interact with the Shy-Wy club. They have informal gatherings Tuesdays at noon at the East Lincolnway McDonalds and Saturday mornings at approximately 9:30 at the north McDonalds on Yellowstone Road (near Sutherland's lumber).

New Business:

There was a discussion of RACES use of the UARC repeater. Dave KY7DR moved that the club endorse RACES use of the repeater, Bill Wright AF7E seconded the motion and it was unanimously approved by those in attendance.

There was a discussion of ways to promote amateur radio in Albany county. There is an ARRL ad on Cheyenne AM radio informing people interested to contact a local ham or ARRL. The club could investigate advertising on local cable TV by contacting the city of Laramie.

Meeting Adjourned:

The meeting was moved adjourned by Bill Frasier N7SXC and seconded by Bill Wright AF7E at 8:35 pm.

Doris KD7RQX

UARC Meeting Minutes 1 March 2004

Call to Order:

The February meeting was called to order by President John KD7NAE at 7:32 pm in room 2 of the Wyoming Union. 7 members were in attendance; all officers were present. Those attending were: Jim Johnson KD7KMU, Wayne Sutherland NQ7Q, William Wright AF7E, Jerry Tastad N7JT, Suzanne Luhr AA7AY, John Harrison KD7NAE, and Doris Hutcheson KD7RQX.

Reports:

Treasurer's Report-Suzanne AA7AY reported the following:
Regular account balance: $431.43
Maintenance fund balance: $876.42.
High Plains Roundup: $642.34

The club approved a transfer of $123.58 from regular funds to the maintenance fund, bringing the maintenance balance up to the $1,000 goal.

Communications:

Doris KD7RQX reported that she had received an e-mail from Bob Atherton with minimum details of the horse endurance race to be held June 18th. Six people have initially volunteered to work this event. The race organizers plan to meet in March, Doris KD7RQX will attend that meeting.

John KD7NAE announced that since a Code of the West was not published prior to the March meeting, he would get one out in mid-March. It will include minutes for the February and March meetings for review at the April meeting.

Old Business:

Upcoming club events were discussed..

There will be an ARES/RACES state-wide event Saturday, June 11th at 9 a.m.

Field Day and the Dead Dog classic bike race are both on Saturday, June 25th. Bill AF7E reported that he has 12 volunteers for the Dead Dog and that he will coordinate that event. The club agreed to set up for Field Day on Friday, June 24th. Bill AF7E moved and Wayne NQ7Q seconded that Field Day be held at Fox Park again this year, with unanimous approval by the club.

The Enduro mountain bike race will be held Sunday, July 31st. The club will need to investigate a new repeater for this event (and probably the horse race since the repeater used last year is no longer available. So far, six people plan to assist with this event. John KD7NAE will continue to meet with race organizers.

High Plains Roundup will be in September, hosted by the Chey-WY club. Doris KD7RQX will contact Chey-WY to verify how they want to access the High Plains account and remind them that it is time to reserve the site at Curt Goudy State Park.

In mid-October there will be a Scouts Jamboree on the air.

Drawing:

Jim KD7KMU won a subscription to World Radio.

Doris confirmed from prior minutes that subscriptions were won in October by Doug KD7W and in November by Rick KD7VV. There were no drawings in September, December and January.

Meeting Adjourned:

The meeting was moved adjourned by Bill Wright AF7E and seconded by Jerry N7JT at 8:45 pm.

Following the meeting, there was a presentation by Jerry N7JT of a suit-case radio that he has acquired from the estate of a deceased ham. The radio is World War II era tube gear employing a fixed crystal tuned transmit section with a tunable receiver. The entire system is impressively compact for its time. Rigs of this kind were used behind enemy lines and at remote spotting locations. Jerry reports that he has a lot of miscellaneous parts from the same estate. Contact Jerry if you're looking for something.

Doris
KD7RQX

Bradley KC7YRA and James N7SEG explore The Needles in Custer State Park in the Black Hills of South Dakota May 2004

Photo by John KD7NAE

Submissions to COTW are welcome from all UARC members, area hams and persons interested in amateur radio communications and activities.

Printed copies of COTW are available from John KD7NAE.

Please contact

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