

Dayton Hamvention - A UARC Member's First Visit.



Hara Arena convention center in Dayton, Ohio, for many years, site the world's largest Hamvention. Notice the parking lots on the top and right side. That's the outdoor fleamarket which, in addition to what goes on indoors, makes the scale of this event hard to comprehend.



Volume XLII Issue 7, July 1998

The MICROVOLT

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THE MICROVOLT (USPS 075-430) is published monthly except August for \$15.00 per year or \$1.50 per issue by the Utah Amateur Radio Club, 632 University St. Salt Lake City, UT 84102. Periodicals Postage Paid at Salt Lake City UT. POSTMASTER: Send address change to "The Microvolt" 2684 Kenwood Street, Salt Lake City, UT 84106

Prologue

The Utah Amateur Radio Club was organized under its present name in 1927, although its beginnings may date back as early as 1909. In 1928, it became affiliated with the American Radio Relay League (club #1602) and is a non-profit organization under the laws of Utah. It holds a club station license with the call W7SP, a memorial call for Leonard (Zim) Zimmerman, an amateur radio pioneer in the Salt Lake City Area.

The club meets each month except July and August. The meetings are held on the first Thursday of the month at 7:30 PM in the Doxey-Hatch Medical Building located at 1255 East 3900 South in Holladay, across the street from St. Marks Hospital.

Club membership is open to anyone interested in amateur radio; a current license is not required.. Dues are \$15 per year, including a *Microvolt* subscription. *The Microvolt* and membership cannot be separated. Those living at the same address as a member who has paid \$15 may obtain a membership without a *Microvolt* subscription for \$9. ARRL membership renewals should specify ARRL Club #1602.

Monetary contributions are gladly accepted. Send directly to the Club Treasurer: Chuck Johnson, 1612 W. 4915 S., Taylorsville, UT 84123-4244. For in kind contributions, please contact any board member to make appropriate arrangements.

UARC maintains the following repeaters: 146.62 (-), 146.76(-), and 449.10. The repeaters are administered by the UARC Repeater Committee. Comments and questions may be directed to any Committee member. The Lake Mountain repeater 146.76(-) has Autopatch facilities on both the Orem exchange (covering Santequin to Lehi) and the Salt lake City exchange (covering Draper to Layton). The 449.10 repeater has autopatch facilities into Salt Lake City only. Due to the volume of traffic, only mobiles should use this autopatch. Autopatch use is open to all visitors to our area and to all club members. Non members who wish to use the Autopatch are encouraged to help with the cost of maintaining the equipment by joining the club.

THE MICROVOLT: *The Microvolt* is the official publication of the club. Deadline for submissions to the *Microvolt* is the 10th of each month prior to publication. Submissions by email are preferred (bbergen@xmission.com), but other means

including diskettes and typewritten submissions can be mailed directly to: Bruce Bergen, 3543 Fieldstone Cir., SLC, UT 84121. In order to maintain ease of conversion it is suggested that you contact Bruce at 943-1365, or via e-mail before making electronic submissions.. All submissions are welcome but what is printed and editing are the responsibility of the UARC board. Reprints are allowed with proper credits to *The Microvolt*, UARC, and authors. □

UARC 1998 Board - Partial Listing

President: Tom Schaefer, NY4I	569-2664
Exec VP: Ray Allen, N7TEI	963-0790
Vice Pres: Gordon Smith, K7HFV	582-2438
Secretary: Russell Smith, KC7ZDZ	463-2568
Treasurer: Chuck Johnson, WA7JOS	268-0153
Microvolt Editor: Bruce Bergen, KI7OM	943-1365
Book "Lady": Fred DeSmet, KI7KM	485-9245

Note: Detailed listing of board members address's, phone numbers, and email address's will not appear in every issue. For current information either refer to the January '98 issue or to the club's web-page: www.xmission.com/~uarc □

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For late breaking news listen to the UARC Information Net Sundays at 21:00 on 146.62 or set your browser to:
www.xmission.com/~uarc/announce.html □



The Microvolt

The Official Publication of the Utah Amateur Radio Club, Salt lake City, Utah

Volume XLII, Issue 7 July 1998



QST From the Prez

Looking at the calendar, summer is here. Of course, judging by the weather for the last month, it looks like Spring hasn't decided to show up yet. If it is summer in Utah, it must mean the annual UARC Steak Fry. What better way to spend a day than in the mountains with your fellow club members. As usual, the Steak Fry will be at the Spruces campsite in Big Cottonwood Canyon. The date is July 18. See elsewhere in this issue for more details and how you can get some tickets. Last year was my first UARC Steak Fry, and the family and I had a great time.

With a fond farewell, we say goodbye to our old meeting place. The September meeting will be in the new location. Look for more details later in this issue.

The club station is finally rolling again. By the time you read this, we may even have antennas on the roof and cable run. I look forward to the grand opening of the station sometime in July or August.

As always, all these wonderful things only get done with the help of you, the members. If you would like to volunteer to help with the club station or any other project, please let one of us know. We would always welcome the help.

73,

Tom, NY4I

P.S. On behalf of the Board and all the members of UARC, we wish Robert Dyess a fond farewell. Robert is leaving for Denver and will be sorely missed at the club meetings. For three years, Robert graciously donated his time and audiovisual equipment to allow UARC to stage very professional presentations. If you thought things like wireless UHF microphones, computer projectors, and other equipment made for interesting presentations, thank Robert. I know I join with my fellow UARC members in thanking Robert for his hard work and wishing him the best in all his future endeavors. □

Featured Member of The Month

Featured this month is Robert Dyess, KC5HZO, who has been licensed for 5 years. He first became interested in amateur radio as a 15 year-old, while visiting, with his family, his cousin Houston Taylor, W0LPR, in Springfield, Missouri. His cousin, licensed as a General, had a Collins rig, which really impressed Robert. He had been using Citizen Band Radio and felt that Amateur Radio had much more to offer. Nothing happened, though, until years later. While working at Infomart in Dallas, Texas, servicing conventions, he met a lot of ham radio operators. It was at this point that he finally decided that it was time to get his license. He received his No-Code Technician license on July 14, 1994.

In the summer of 1995 Robert went on a road trip from Dallas to Southern Utah and loved it. When he returned he asked his company if they had an opening in Salt Lake City, Utah, and was told that they did. Three weeks later he was told of an opening at the Red Lion Hotel in the audiovisual department. Robert moved to Salt Lake City in December of 1995.

Robert has been a great asset to the UARC meetings since 1996. Robert has provided and operated state-of-the-art audio-visual equipment from his company, for our meetings, at no charge. He has provided VCRs, projection computer and TV monitors, projection screens, slide projectors, computers, audio cassette players and wireless PA systems with traveling mics. Each month with simply a call from one of the program chair persons, he would show up at the meeting with the needed equipment, making for many successful meetings.

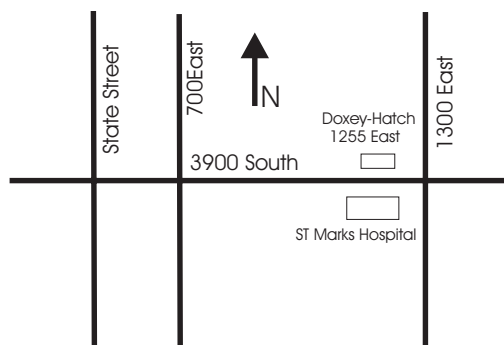
His favorite modality is packet and HF, and it is his goal to upgrade. Robert said he would love to get on the HF radio and let his cousin know that he finally got his ham license. But there is also another reason he would like to upgrade. Several weeks ago Robert was approached by the Davis Audio Visual company, a competing company, with a better job offer in Denver. Robert has accepted the offer, and will be leaving for Denver on June 30th. Robert said he is going to miss UARC very much and would like to be able to talk with us on the radio. He said he still wants to keep his UARC membership and will send us his email address

Robert, we really appreciate all you have done for UARC and wish you the best in your new endeavors.

73 Linda Reeder, N7HVF □

New UARC Meeting Place

Starting with our first meeting of the Fall season on Thursday September 3 we will be meeting in our new quarters at the Doxey-Hatch building. The address is 1255 East 3900 South, which puts it across 39th South from St Marks Hospital. Meeting times will remain unchanged. □



A Blast from the Past

Hello to all,

I found this article from Jan 1929, and this may have been the first talk of a Club station. It is now 69 years later and we are going to get a Club station. It is also interesting to note that there was some sort of initiation given to new members, (how long one can hold on to wires from a variac?) it does not say.

CUL, Alan, K7OPT □

MINUTES

January, 29, 1929.

At a regular meeting held at CHNH, Attendance 13; Bradford, Stearns, James, Morgan, Vogeler, Bowman, Jones, Yates, Mason, Miller.

Meeting called to order 8:30 PM. Harold Bradford, President, Chairman.

An interesting paper on "New Abbreviations and 1929 Operating Practice" was given by Farley James.

General discussion of the subject followed.

Morgan brought up subject of Club Station. Which was discussed by the meeting.

Committee to investigate possibilities and make recommendations as to feasibility location etc., consisting of Bradford, Morgan and James appointed by the meeting.

Motion by Bowman to make dues payable on Initiation and 25¢ credit against dues to be paid for each new member brought in whose dues were paid for the year. Approved by unanimous consent.

Refreshments were served by Mrs. CHNH.

Morgan Yates and Miller were Initiated into the first Degree. Membership cards issued to the above. Dues received from Yates and Miller.

Next meeting set for Feb. 26, Tuesday at 1825 Lake St. Morgan,

CQ CQ all Amateur Radio Operators! Varsity Scouting "Operation On Target" NEEDS YOU!

What is ON-TARGET?

ON TARGET is a national Varsity Scout special high adventure event scheduled for Saturday morning, July 18th, 1998. Varsity Scout teams will choose mountains to climb (or drive to or ride to). From there, they use mirrors to signal each other. Each team communicates (and confirms mirror flash sightings) to each other with cell phones or preferably, by amateur radios. The contacts are plotted on a map to see how many other teams each team can contact and how far the mirror flashes can be relayed (a challenge has been issued to go from Alaska to Mexico).



On a Unitah mountain peak a Varsity Scout watches as another tries his technique of aiming his signal mirror at a distant target.

Why are Amateur Radio Operators needed?

ON TARGET teams can, and do, use cellular phones to communicate, but on many mountain peaks there is no cellular coverage and therefore they find that once they've reached their mountain peak they cannot communicate with other teams to confirm their mirror flashes. This is very discouraging to the young men in the Varsity Teams. By involving ham radio operators using portable VHF radios (2m handy

talkies and extra batteries) with each of the On Target teams, there can be nearly 100% assurance that each team can contact any other team that is flashing them. This is due to the fact that the radio signals at these frequencies are line of sight and if you can see flashes from another team and they have a 2m radio with them, both teams will be able to talk directly to each other (barring radio problems).

Another benefit of using Amateur Radio frequencies is the many mountaintop repeaters in the western US that provide for communication capabilities well beyond the horizon. Some of these repeaters are chained or "linked" together to form a network of repeaters allowing radio coverage over most of a state or across several state lines. The repeaters, listed below, form such a linked system that covers most of Utah and parts of Idaho and Wyoming. This should allow teams with ham operators to know of other teams well beyond their visual range and attempt to relay mirror flashes across the state or maybe even across several states.

LINKED REPEATER SYSTEM OUTPUT FREQ. LOCATION

147.180	(HUB)Snowbird UT
*147.240	*Cinnabar (west of Boise ID)
147.120	Farnsworth Pk. (Oquirrh range), UT
147.020	Bear Lake UT
146.940	Frisco Pk. (Milford UT)
*146.880	*Las Vegas NV
146.860	Medicine Butte, near Evanston WY
146.850	Jumpoff (near Howell ID)
146.820	Utah Hill, St. George UT
146.800	Blowhard, Cedar Breaks UT
146.660	Afton WY
146.430	Malad Pass ID (simplex frequency into linked system)

LINKS to REPEATER MAPS of AZ, ID, UT, & WY:
www.burgoyne.com/pages/ferney/repeater.htm

***NOTE:** The Cinnabar (Boise) and Las Vegas repeaters may or may not be linked into the system during On Target depending on the control operators in those areas. These repeaters are NOT permanently linked to the system. Also some of these repeaters may require a 100 Hz. PL tone. So if you can't seem to raise the repeater try turning on a 100 Hz. PL tone. The BSA Great Salt Lake Council would like to thank the trustees of each of these repeaters and Eldon Kearl

(KB7OGM) for allowing the use of these repeaters during Operation On Target!

SUGGESTED SIMPLEX FREQUENCIES FOR ON TARGET: 146.520, 146.460

WARNING: Please limit your use of the linked repeater system to 5 minutes or less by trying to establish contact with another team and then moving to a simplex frequency. Be sure to ID with your call sign at least every 10 minutes. Also leave a short pause between transmissions to allow emergency traffic or other breaking stations to get in.

A third benefit of Amateur Radios for the On Target exercise is the ability to be in contact with several teams at once (sort of like having a big party line), whereas cellphones can only provide communications between two teams at any one time. Teams using only cellphones get somewhat frustrated trying to contact another team when they continually get busy signals.

Ham operators providing communications for Varsity Teams also provide two other benefits. First, they demonstrate communication skills (there is a Radio merit badge that the young man can earn). Second, they demonstrate the use of Amateur Radio and some of the young men, or the adults with them, may want to get involved in Amateur Radio and earn their own license. Besides, it's a GREAT excuse to get out in the mountains and test those emergency or FieldDay skills PLUS it's a lot of FUN!

How should Hams sign up to help?

Hams should sign up by going to the On Target registration page (<http://www.xmission.com/~gslc/target/form.htm>) and sign up as if you were a Varsity Coach (be sure to list your call sign in the Call Sign box and your phone number). If you don't have Internet Web page access, you can email or phone your request to:

John Blackham N7TEK W: 5881216 / H: 2953036
emailto:jblackha@torino.corp.es.com

Ray Dahl KC7YVP W: 5859039 / H: 9636197
rdahl@hal.uen.org

Rick Donkin KA7MMM W: 5942167 / H: 9683892
donkin@csu.L3com.com

How can a ham get in contact with the Varsity Teams in their area?

Please locate your District representative from the District Contacts listing and contact them. Or contact your local Boy Scouts of America Council.

Great Salt Lake Council (Salt Lake, Tooele, Summit, and South Davis Counties) (801) 582-3663

Trapper Trails Council (Northern Utah and South West Wyoming) (801) 479-5460 or (800) 748-4256

Utah National Parks Council (All of Utah south of Point of the Mountain) (801) 373-4185

Grand Teton Council (South East Idaho) (208) 233-4600 574 4th Street, Idaho Falls, ID 83401

OreIda Council (Boise ID) (South West Idaho and South East Oregon) (208) 376-4411 or (800) 894-6839

Grand Canyon Council (Northern & Central Arizona) (602) 955-7747

Airtouch Cellular to (temporarily) donate 20 phones for On Target use!

Airtouch Cellular will be donating the use of 20 phones for this Operation On Target event. These phones will only be available for the first 20 teams that sign up for a peak AND request a phone. Even if you have arranged for a Amateur Radio operator to provide communications for your team, it is always a good idea to have a backup means of communication. As the Scout Motto says "BE PREPARED!" If you're NOT one of the first 20 teams to get one of the Airtouch Cellular phones, try to arrange to bring someone along who has a cellphone and BE SURE TO REGISTER THE TELEPHONE NUMBER OF THE CELLPHONE YOU WILL BE USING! We will be posting a list of cellphone numbers on this (www.xmission.com/~gslc/target) web page a few days before the event (OR you can contact Reuben Lambert a week in advance to get a copy mailed to you). How can a HAM get in contact with the Varsity Teams in their area? Please locate the District person for your area from the following list:

Or contact your local Boy Scouts of America Council:
<http://www.bsa.scouting.org/comm/councils.htm>



On Top of Bald Mountain near Mirror Lake in the Uintah Mountains. On the left, Reuben Lambert, Varsity Coach, and Great Salt Lake Council On-Target Chairman gives instructions to some of the Scouts of his team. Rick Donkin, KA7MMM, third from left stands ready to provide communications support.

Great Salt Lake Council District Contacts:

District	On Target Chair	H Phone	W Phone	Chair Address or District Area
Farmington Bay	Don Simms	451-2797		P.O. box 530 Farmington Ut. 84025
Stone Creek	Lou Bingham	292-3088		Bountiful
Indian Springs	John Blackham	295-3036	588-1216	384 N. 75 E. NSL, UT 840542320
Ensign Peak	Orville Paller	596-3838		Rose Park, Avenues
Evergreen	Mark Featherstone	484- 0417		Holladay, Mt. Olympus Cove
Summit	Ron Casper	336-2614		Summit County
Deseret Peak	Boyd Schupe	831-4252	831-5152	123B E 3rd St. Dugway Ut. 84022
West View	Mike Steadman	250-9341		Magna
Granger	Conrad Hendickson	969-9048		Granger
Mill Creek	Joseph Noble	278-2310		South Salt Lake City & vicinity
Olde English Fort	Bill Gray	967-8902		WVC, Taylorsville, Hunter
Wagon Wheel	Ray Dahl	963-6197	585-9039	Kearns Area (84118)
White Buffalo	Paul Braman	969-6649	240-5366	West Jordan
Granite Trail	Al Kestler	268-1902		Murray
Cottonwood	Jeff Cox	942-7862		Holladay
Golden Eagle	Ole Jensen	254-0944		2893 W. 10460 So. So. Jordan, Ut. 84095
Union Fort	Bryce Swanson	562-2337	972-7089	Midvale, Ft Union & Willowcreek
Silver Mesa	Craig Hardy	255-7487		Midvale & Sandy
Lone Peak	Kary Ryser	572-3842	366-7113	Sandy
Wasatch Peaks	Dick Hill	254-0090	538-1818	Riverton, Bluffdale
Eagle Peaks	Dan Horne	571-5278		Draper

73 - John Blackham, N7TEK □

Editors Note: It is possible to participate both in On-Target and the UARC Steak-Fry, both on July 18. Your editor has done it many times. On-Target is over by 1:00 pm MDT and the Steak Fry is later in the afternoon.

Dayton Hamvention A UARC Member's First Visit.

Tom, NY4I, asked me to write about our adventure to Dayton this year. For those who are interested, you should start to make plans now for next year. I can't quite describe what going to the Dayton Hamvention is really like. I had a handfull of veterans of Dayton, like Ron K7UT and Larry K7LE try to describe what I was about to experience. Let me say this, It was much more than I expected it would be. One could give the analogy of taking an alcoholic to Bourbon Street in Louisiana!



A Ham swap meet junkies heaven. It seems that everything you see is something you can't live without!

One begins to understand what is happening when you transfer planes and start seeing things like call sign badges at major airports, people carrying the most recent copy of QST, or others with APRS units held close to the window of the plane.

Upon arriving we went to the famous Rib house close to Dayton, and yes it did live up to it's name. We probably enjoyed it so much because we were very hungry. The next day we went to the Arena. One can start to visualize the size of this when you park 1/4 mile away and take a bus to the Arena. If you could not find it at Dayton, you really were not looking. The first day we just tried to get through all the booths looking for what we had come for. As for me I pulled home a nice 30L1 and many other small parts and things that (I just could not do without!)

Tom brought a suitcase that pushed the airline standards right to the limit. At the start of our adventure I made fun of him for bringing it, but as you guessed, he FILLED it to the top. If you looked around you could find a representation of just about any radio that was ever made. Computers, parts,

batteries, antennas, hardline, old TV transmission equipment, I even think that we saw some children for sale! (just kidding).



The Salt Lake City bunch does lunch. Left to right: Dave, K7SX; Tom, NY4I; Alan, K7OPT; Steve, K7XB; Kay, N7KH. Larry, K7LE, is on the other side of the lens.

Inside the buildings we found every manufacture of equipment, software, arts, etc... etc... Every manufacture displayed their latest equipment. Yaesu for example is coming out with a new radio, smaller than the 706. This radio covers 160m-70cm. and comes with a mag mount antenna that will self adjust from 80m to 70cm without leaving the car or doing anything but pushing the button for the band you want to operate! You will see many things that you just can't see in QST or other catalogs. I found a German iambic key that I fell in love with and found its way into my things to go home.



Let's see, now where was that guy who had such a super deal on the Henry 8K Ultra? This is just one little corner of the outdoor flea market.

After looking at all the old and new equipment, you could take a break and go over to the mall and have lunch or attend one of the many classes that were offered in such things at APRS, contesting, DXing, building equipment, satellite, and many, many more.

If you were not absolutely tired by now, you could go back to your Hotel and get ready to visit the hospitality suites for the remainder of the evening! I went from the top floor, #13, to the bottom of the Crown Plaza and went from party to party all the way down. You could rub shoulders with the guys from VK0IR or 8Q7AA or many others.

The fellows that went with our group will probably always remember the fun that we had. (K7LE Larry, K7SX Dave, K7XB Steve, N7KH Kay, NY4I Tom, and myself, K7OPT Alan.) We had good times, ate great food, told many stories and just had a great time. I am looking forward to next year; hummm what other piece of ham equipment can I just not do without? Hope to see you there next year.

CUL Alan, K7OPT □

Using Water Pipe & Service Joints for RF Grounding - PLEASE DON'T

It's probably done most often for the simple convenience of time and effort, but there's little to be gained and frequently a lot to lose by using cold water pipes, gas pipes, and electrical outlet box connections as RF or lightning protection grounds.

Good grounding is a critical and integral part of good telecommunication station design. Whether the application is receive only, transceiving, data delivery, or otherwise modern solid state equipment is internally delicate, and good grounding is a key factor in maintaining clean spectrum operating and over-voltage protection. Unfortunately, it is seen as a quick ten minute afterthought to many installations.

In people's haste to finish grounding, connections are commonly made with a piece of "off the shelf" wire connecting radio equipment chassis to whatever is nearby that may eventually reach ground. But the most important factor in good neutral connections is length of lead from chassis to earth entry point - not the specific materials or wire sizes used. Here are a few guidelines to follow when installing ground connection systems:

1) Cold water pipes make poor grounds in most cases because the length of copper pipe to earth is often very long. Any lead over ten feet probably should be avoided for most applications. Additionally, pipes of this type connect through numerous solder-sweated

joints, bends, and possibly even conversion to plastic pipe (a good insulator) before reaching ground. The fact that the pipe may have water inside is irrelevant. When such systems are used in transmitting service the piping becomes part of the radiating structure and ground level radiation will often be severe, causing interference to other services or neighbors.

2) Never, ever, ever use natural gas pipes for ground connections. In a lightning event a seam crack or rupture of a gas line can be explosive. Hot water lines used in conjunction with gas water heaters should be avoided for the same reason. Be sensible-stay well away from dangerous ignition sources!

3) When designing a telecommunication installation keep equipment at or below ground level if at all possible. Locate the equipment close to an outside wall where short grounding connections can be made. Or drive a ground rod through the floor downward into a crawl space, if present, where a short distance to ground can be found. Borrow or rent a hammer drill to drill a hole through concrete slabs or floors where a ground rod may be inserted. Ground underneath such places is nearly always moist and very conductive. If drilling through a slab be sure to avoid pipes that may be in the concrete! Consult the builder or house plans.

4) If the facility must be elevated off the ground run ground wire straight down to keep the distance as short as possible, and be sure to route all antenna leads, rotator wires, etc. to ground first (where lightning protection devices are installed), and then up to the equipment.

5) Electrical service box connections generally make poor grounds for the same reason as cold water pipes. The leads are lengthy, the wire size small, and the integrity of the earth connection is often compromised by age, poor initial installation, corrosion, dissimilar metal conversion, loose screws, etc.

The moral is simple - put some effort in good grounding. Keep leads short, wire size large, connections tight and weatherproof, and grounding electrodes wet. It will probably save you from more headaches than aspirin!

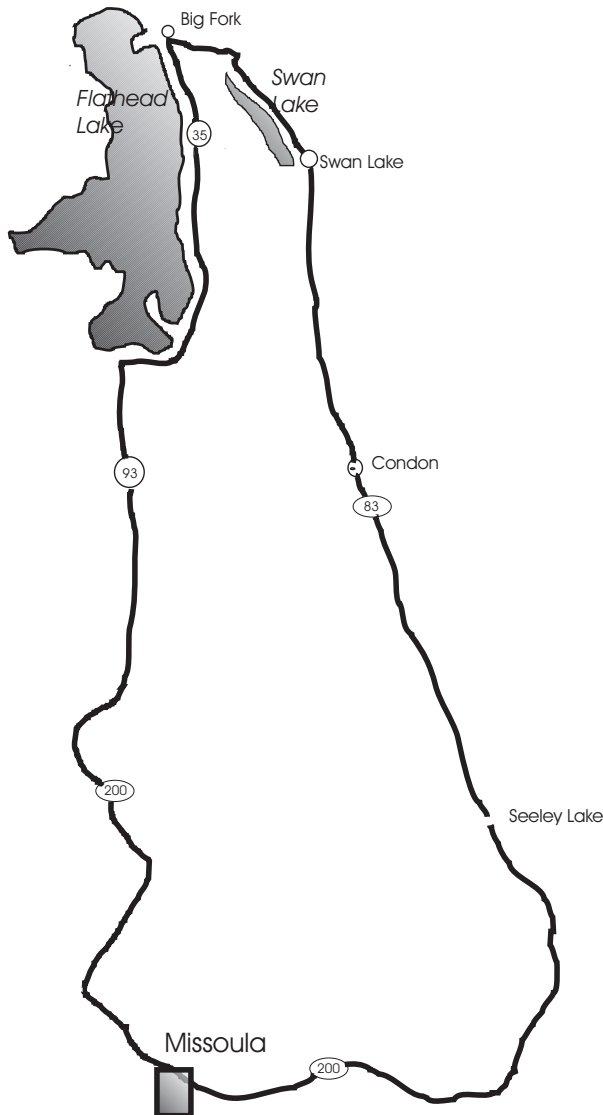
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The 28th Annual Tour Of the Swan River Valley

Hi Guys & Gals,

Well like I told Bruce, KI7OM, here's my report on the T.O.S.R.V. (Tour OF the Swan River Valley) Bike Trip. It is held the 3rd full weekend of May every year which was the 16th and 17th of May this year.

The trip (for you cyclist - a "Fun Ride") leaves from McGill Hall at the University of Montana campus in Missoula, Montana. The cyclists pretty much head out at daylight and head for the Lubrecht Forest food stop for breakfast which is about 30 miles from Missoula. They then head up Highway 200 to Clearwater Junction with Highway 83. From there up 83 to Seeley Lake about 53 miles from Missoula. On to Condon and then to Swan Lake for dinner. The next day they leave Swan Lake and ride over to Big Fork turning south following down the east side of Flathead Lake to Polson, then heading on to Missoula, the University and the starting point.



The Hellgate and Flathead Radio Clubs do the escort/radio "bit" for the trip. This year there were between 500 and 550 cyclist on the trip. Some of the ham ops this year were: Frank KA7LEB; Richie, KA1YQE; Larry, KC7EVV; Paul, K7VSL; Jerry, N7STM; Louis, KC7UNW; Bob, KC7HP; and Terry, KF7BQ. Of course yours truly Dayne, W7VUF, was also there. There were several others from both groups who joined in on Sunday but are not listed.

In addition there were several members of the "local" BMW motorcycle club from the Missoula and Helena making for an additional 20 from those groups. This is at least the second year for many of these volunteers. As usual it's great to have their help on the trip since the big bikes can zip up and down the route and get to us, in the radio crew, in a hurry.

This was the 28th annual TOSRV fun ride. The Weather on the 16th, Saturday, was sunny, warm, and clear. It was very nice all day, but Sunday, the 17th, was rather cool with wind, rain, and rather miserable for everybody. About half of the cyclists probably got car rides back to Missoula, or at least a bunch of them did. In spite of these hardships the trip was apparently enjoyed by "all." On average about every other year, the Sunday of the ride is cold and wet and thus this was the "wet" year.

If any of you guys or gals like to cycle this is a real "fun" ride.

We'll let you go for now ES CUL

Dayne Clark, W7VUF ☐

643 Porter Hill
Stevensville, MT 59870

Editors Note: Many of you will remember Dayne, W7VUF as a frequent user of '.62 this last winter. He plans on maintaining his UARC relationships and sends his greeting to all. This report was of particular interest to me since I have vacationed with my XYL's family at Swan Lake for years and I have also bicycled extensively in the area. I remember the area for great stream and lake fishing, tasty huckleberries, and spectacular scenery.

Editor,

I wonder if we could get some help publicizing the 1998 AF Anniversary QSO Party. We are trying to reach as many current, retired, and former Air Force members as we can. If you could give us a plug on your web site (or a link), in your newsletter, or wherever, we would appreciate it.

Thanks and 73,
Bernie Skoch K5XS

Editors Note: Well I know we have some retired, reserve and current "blue suiters" in our midst so Bernie here you go.

1998 Air Force Anniversary QSO Party

In response to an enormous number of requests following the Air Force 50th Anniversary QSO Party in September 1997, the AF Anniversary QSO Party is now an annual event!

It will be held on the third weekend of September, 1998 from 0001UTC on Sept 19th until 2359UTC on Sept 20th. Full rules are at The Razorback Radio Club web site:

<http://ourworld.compuserve.com/homepages/k5xs>

PURPOSE: The purpose of the annual event is gathering on the air as many active and former members of the Air Force as possible for a weekend of fellowship and in remembrance of all those who served.

POINT IDENTIFIERS: Point identifiers will be used to identify participants' Air Force experience. The point values will be determined by subtracting the year the participant entered the Air Force from the year 1998. For example, people who joined in 1947 will have a point value of 51 ($1998-1947=51$) and will identify "/AF51" on CW or digital modes, and "Air Force FiftyOne" on voice. People who joined in 1988 would have a point value of 10 ($1998-1988=10$) and will identify as "/AF10" or "Air Force Ten." Participants without Air Force experience will identify as "/AF1" or "Air Force One."

Participants may use experience in any Air Force component (active, Air National Guard, or Air Force Reserve) to determine their point identifier. Members of our Air Force auxiliary, Civil Air Patrol,

may use point identifiers based on when they joined CAP as a cadet or senior member. Previous members of our parent organization, the Army Air Corps, may use a point identifier of "AF51."

MULTIPLIERS: In 1997, final score was determined by totaling all of the point identifiers for all of the stations worked. For 1998, we are adding a multiplier which will be determined by counting the number of different point identifiers worked and multiplying your score by that multiplier. For example, if you work four stations with point identifiers of "AF8," "AF22," "AF8," and "AF4," you would determine your final score by first adding together all of the point identifiers ($8+22+8+4=42$) and then multiplying that number by three (since you worked three different point identifiers: AF8, AF22, and AF4), for a final total of 126 ($42 \times 3 = 126$). (Note that you can count each identifier only once for the multiplier. So in this example, you can count "AF8" only once as a multiplier, even though you worked two "AF8" stations.) This new scoring scheme should encourage more "hunting" for even the smaller point identifiers, since it will be in the best interest of participants to work as many of the 51 different point identifiers (AF1 through AF51) as possible.

BONUS STATIONS: We will also be awarding point bonuses for working stations operating from the premises of Air Force installations worldwide. All stations (club or individual) operating within the boundaries of an Air Force base will identify the name of the base they are on. For example, K5TYP (the Mississippi winner for 1997) will identify "K5TYP, Air Force 51, Keesler Air Force Base." Our Razorback Radio Club station here on Hickam Air Force Base will identify "K5HOG, Air Force 24, Hickam Air Force Base." For each of those stations you work (even if more than one are on the same base), not only will you count their usual point identifiers (and use them to compute the multiplier above), but you will also earn a bonus of 100 points per station to be added to your final score. If you work four stations located on AF bases, you will add 400 points to your score.

SCORING SUMMARY: To summarize how 1998 final scores will be computed, you will:

Step 1: Add the total of all point identifiers of all stations worked

Step 2: Count the number of different point identifiers

worked, and multiply your score in Step 1 by that number (maximum multiplier will be 51)

Step 3: Count the number of stations worked which were operating from Air Force installations, and add 100 points for each of those stations to determine your final score.

A score calculation worksheet is available for download on The Razorback Radio Club web site.

CLUB STATIONS: Clubs may use as their club point identifier the point identifier of any bona fide club member.

CQ's: Contest CQ calls to be given as "CQ AF" on CW and digital modes, and "CQ Air Force" on voice.

Stations may be worked once per band/mode.

FREQUENCIES: Operation is allowed on any authorized frequency, but we will encourage the following frequencies ending in "47" (to celebrate 1947, the year of our formation as a separate Service) as meeting places (e.g. 33547, 3947, 7047, 7247, 14047, 14247, 21047, 21347, 28047, 28447). Exchanges should consist of callsign with point identifiers and signal reports. (E.G.CW/Digital: "K5HOG/AF24 DE K5XH/AF1 599 K" Voice: "K5HOG Air Force Twentyfour this is K5XH Air Force 1, you are five by nine, over.")

LOG SUBMISSIONS: Log submissions for awards must include for each contact: the callsign of the station worked, its point identifier, date, time, frequency, and mode. Each page must have point identifiers totaled at the bottom of that page. Each log submission must include on the final page the following:

1. The total of all point identifiers.
2. The multiplier claimed.
3. Bonus points claimed for working stations which are operating from the premises of a U.S. Air Force installation worldwide.
4. Total points claimed.
5. A declaration as to whether the station is competing as a single operator station or a multiple operator station.
6. Signature of the licensee or other participant.

Logs must be received by The Razorback Radio Club not later than October 15, 1998 for award

consideration. Logs may be submitted by email (ASCII text file only) to k5hog@aol.com.

AWARDS: Awards for 1998 will include plaques for overall worldwide single and multiple winners, and certificates for high single and multiple operator stations in each country, state, and province.

We look forward to a fun 1998 QSO party. We hope you'll spread the word and join us. Please contact us (email k5hog@aol.com or k5xs@compuserve.com) or by mail at:

Bernie Skoch - K5HOG (club call), k5hog@aol.com

The Razorback Radio Club
604 Julian Avenue
Honolulu, Hawaii 96818 □

Last Call for UARC Steakfry

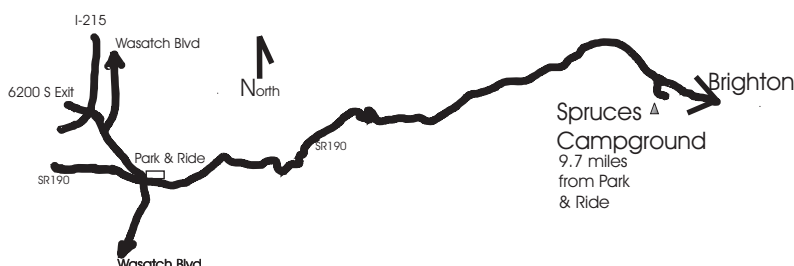
The annual Steakfry, one of UARC's biggest events of the year will take place on the afternoon of Saturday, July 18, along with its companion swapmeet. If you have yet to schedule vacations and other summer activities, then mark this date on your calendar. UARC has once again been able to secure a spot at The *Spruces Campground*, 9.7 miles up Big Cottonwood Canyon from the Park and Ride at the mouth of the canyon..

Tickets will be on sale at the Field Day site and by calling Russ Smith, KC7ZDZ, at 463-2568. The price for members is \$2.00, nonmembers \$9.00 and children \$2.00.

Talk in will be on 146.52 and you are encouraged to carpool using the Park and Ride at the mouth of the Canyon.

See you there,

Cindy, KB7OUT □



Intermountain Area Amateur Radio Organizations

Amateur Radio Explorer Post 1973, Utah National Parks Council, is a coed post open to all young men and women ages 14-20. The post is supported by a committee of hams over the age of 21. The post meets on the third Wednesday of each month at 7:00 at the UVSC Provo campus, and holds a net on the 147.34 machines on the first Wednesday of each month at 8:30 PM. Contact person is Post President Sariah Whitehead KC7KEI 465-3983, Committee Chairman Derick Wolsleger KC7KRS 465-1134 KC7KRS@ucares.org, or Advisor Terry Gardner N7QGA 785-7517 jerrygardner@juno.com.

BARC or The Bridgerland Amateur Radio Club Monthly club meetings are held each second Thursday of the month at 7:30 PM at the Hyde Park City offices building, 113 E. Center St., Hyde Park (except June, July and August). They hold a net at 9:00 PM on the 146.72 repeater on Mt. Logan (hard linked to 147.26 on Promontory) every Tuesday. Their contact person is Farrell Garr KC7CWX at 753-4332. Postal mail address for the club is: BARC, P.O. Box 111, Providence, UT 84332. WebPage URL is <http://barc.everton.com/>

BYUARC (Brigham Young University Amateur Radio Club) is open to all alumni, faculty, staff and student of BYU. The club maintains the 147.26 repeater that has an autopatch for members to use. The dues of \$15.00 covers Autopatch usage for a whole year. The club also has a shack with a variety of equipment. Members have the opportunity to provide emergency communications for the campus. Meetings are held the second Thursday of each month, and the location varies. The information line for the club is (801)378-COAX, or you can contact the president Andrew Barney by email at WH6KU@byu.edu.

The Davis County ARES conducts a Net each Thursday night at 7:00 P.M. on the 147.04 repeater and 147.42 simplex.

DCARC The Davis County Amateur Radio Club meets the 2nd Saturday of each month at 10:00 A.M. The Davis Club supports the 147.04 and 449.925 repeaters, normally cross-banded to 147.42 simplex. For further information please contact Mel Parkes, N4UVP at (801)547-1753. The DCARC Website's URL is: <http://www.thriftyweb.com/dcarc/>

Dixie Amateur Radio Club (DARC) meets every third Wednesday in the basement of the Washington County Administration Building, in St. George, UT. Sunday Night Net 7 PM local time on 146.910 with an alternate frequency of: 145.450. Contact Person; President Bob Palambo K9ZWH P.O. Box 422 Santa Clara, UT 84765. Email, palambo@infowest.com Club Wepage: <http://www.infowest.com/DixieSun/suar/index.html>

Eagle Rock Amateur Radio Club Idaho Falls, Idaho operates the 146.640 and 146.740 repeaters. Club meetings are held the 1st Wednesday of each month at the Idaho Falls Law Enforcement Building at 7:30 P.M.. A net is held every Tuesday night 9 PM on the 146.640 MHz Repeater Contact person is club president, Chuck Olsen, N7PME, phone (208) 523-7948, email hamradio@ida.net. Club Webpage is <http://www.ida.net/org/hamradio/>

The **Elko Amateur Radio Club** holds its monthly meeting the third Monday at 19:00 Pacific with the location announced in the monthly newsletter. They conduct a weekly net on Wednesday at 19:30 Pacific on the 147.21 repeater with a PL of 100. Contact person for the club is Mike Giles, N7EV (701)753-7474. Email for club business is russell@sierra.net.

The **Evans & Sutherland Radio Club** is currently inactive. The club callsign is KC7LCX. Trustee and President is Alan Brubaker, KO7X. For more information contact Alan Brubaker at 600 Komas Drive, Salt Lake City, or telephone (801) 588-7212.

Grand Mesa Repeater Users Group, Grand Junction CO, operates repeaters located on the western slope of Colorado with coverage of west central Colorado and eastern Utah. Repeater Frequencies are 145.145, 145.22, 146.82, 147.39 and 147.57 (simplex remote) that are linked together on a full time basis. Contact Person: Robert Kirner NØMBJ Mail:3087 Bookcliff, Grand Junction, Co. 81504

The High Valley Net from Heber meets every Monday at 9:00 PM on the 147.18 repeater. Their contact person is Doug Neilson, N7PPW at 756-5927.

KC Amateur Radio Club, Kanab, UT. Contact Person: Joyce Ross N7KDU Pres. Mail: 57 N Dry Gulch #614 Kanab, UT 84741

Las Vegas Repeater Association (LVRA) owns and operates VHF and UHF amateur radio repeaters

throughout Southern Nevada. The following are its open repeaters: 146.88 (PL 100, linked to the Snowbird system), 145.11, 147.99, 449.150 (PL 127.3 & linked to Arizona). The coverage and linkages of these repeaters are detailed on their web page: <http://www.hxo.com/>.

MARA or Mercury Amateur Radio Association is a world wide group of radio amateurs dedicated to training and traffic handling for emergency operations. They conduct VHF nets each Wednesday at 9:00 PM. They also conduct health and welfare traffic net on 3.873 Mhz (80 meters). The Salt Lake area is on the 146.74 repeater and their contact persons is Willy Peake N7VVL at 446-1144. The Ogden area is on the 145.49 repeater. The Provo area is on the 145.37 repeater with Jim Manookin, N7XGA, at 225-4940 (email is n7xga@byu.edu) as their contact person.

OARC or Ogden Amateur Radio Club meets the 3rd Wednesday of each month in Ogden at 7:00 PM. The meetings are held at the Red Cross building at 2955 Harrison Blvd. Members and nonmembers are invited. OARC supports the 444.60, 146.82, 146.90 and the linked 146.92 repeaters, all with a PL of 123.0. The OARC Web Page URL is <http://www.lgcy.com/oarc.html>. The contact person is Fred Mabrey, KJ7RH, at 782-6309.

Payson High School Amateur Radio Club (KC7PJY) is composed of students who are interested in radio communications at Payson and Springville High Schools in the Nebo School District. The Club holds the call sign of KC7PJY. Club advisor is Bob Strange, K7VVU, 754-3535 and can be reached via email: srobert@admn.phs.nebo.edu. Coadvisor is Reed Thomson, N7YVJ.

Rainbow Canyons Amateur Radio Club of Cedar City meets at 7:30 PM the 3rd Tuesday of each month in the FAA Building (north door) at the Cedar City airport. They sponsor the 146.94 Frisco Peak WR7AAA repeater (part of the linked Snowbird system), and the 146.76 Iron Mountain repeater. Club president is Gene Urie, N6LHA (435)865-1724.

RMRA: Rocky Mountain Radio Association is open to all Utah hams and they support the 447.900, 448.800, 448.400, 448.700 + 6 m gateway repeaters. Their net is on 447.900 every Thursday night at 9 PM. Contact Marc Peterson KB7YJJ at 977-9845 for information. They also house other affiliated repeaters: 447.450 linked to 146.660 Manti

system and the MARA 146.740 machine at our radio sites. RMRA Packet BBS is on 145.050.

Salt Lake County ARES (Amateur Radio Emergency Service) conducts a net each Wednesday Night at 8:00 PM on the 146.88 repeater (PL tone of 88.5). All amateurs are welcome to participate. Their inperson meeting is held the third Wednesday of each month. For more information please contact Don Scarlett N7DIZ at 278-3204. Webpage URL is: <http://www.inovion.com/~ares/>

Sinbad Desert Amateur Radio Club (SDARC) meets the first Thursday of each month and rotates between at least two counties, Emery and Carbon, during winter months either in local restaurants or individual homes, during spring, summer, fall, we try and get in several campouts. The Club conducts a net on Tuesdays at 20:00 local using their entire system. SDARC sponsored repeaters are linked together on a full time basis and cover most of Eastern Utah with the following repeaters: 147.06 Horn Mountain, 145.31 Ford Ridge, 147.14 Cedar Mountain, 147.32 Bruin Peak, 146.61 Abajo peak, 146.76 Bald Mesa * Microwave link, 146.90 Dwntwn Moab * Microwave link. Other repeaters not full-time linked to the system include: 447.700 Horn Mountain, 223.920 Skyline Drive, 224.480 Navajo Mountain, 448.550 Cedar Mtn., 145.43 Dwntwn Price, 442.025 Star Point. Contact Person: Jim Anderson, KG7BC, Email jima@ecso.co.emery.ut.us. Webpage URL is: <http://168.179.236.137/sdarc.html>

SPARC or Saltlake Peaks Amateur Radio Club (sponsored by L3 Communications) normally meets the 2nd Wednesday of each month at Noon in the L3 Communications Building "F" Cafeteria (640 N. 2200 West, Salt Lake City, UT 84116). SPARC supports the 448.050 repeater and conducts an emergency committee net there each workday at 7:05 a.m. The current president is Ray Riding, KC7FGT, who can be reached during working hours at (801) 594-7132. SPARC also publishes "The Signal" monthly. The editor is Rick Donkin, KA7MMM, who can be reached on workdays at (801) 594-2167 (email to: donkin@tcs.lmco.com).

UARC or Utah Amateur Radio Club meets the first Thursday of each month except the months of July and August. The meeting is held in the Doxey-Hatch Medical Building located at 1255 East 3900 South in Holladay, across the street from St. Marks Hospital at 7:30 PM. There is a newcomer's meeting held prior to the main meeting 7:00 PM. UARC conducts

an information net every Sunday nite originating on the 146.62 Farnsworth repeater

UBET (Utah Box Elder Thiokol) holds a net every Wednesday at 8:00 PM on the 145.43, 448.300, 145.29 repeaters. Net control changes monthly. Contact Wayne Jensen AB7TS for details about net. Club meetings are held the first Tuesday of every month at 7:00 PM at Mills Montessori School 575 N. Main Brigham City. Club President is Rob Daines KK7DO 723-3285, Email: dainerw@thiokol.com.

The **University of Utah Radio Club** is open to University staff, alumni and students. There is a fully equipped station available 24 hours a day. Their contact person is Marvin Match KA7TPH at 581-6085 or Clint Turner KA7OEI at 566-4497, Email: ka7oei@uugate.wa7slg.ampr.org.

UPRA (Utah Packet Radio Association) is open to all radio amateurs interested in packet radio and its applications, including TCP/IP, highbandwidth, and digital repeaters. The purpose of the club is to coordinate packet activity within the state and interface to adjoining states. Meetings are scheduled as necessary.. For more information contact Jack Christensen KD7NX at (801)581-0897 or email Jack.A.Christensen@siemenscom.com.

Utah Army MARS (Military Affiliate Radio System) VHF nets are held Monday, Wednesday and Thursday at 2100 local. Frequency is 143.99 rcv 148.01 xmit. Membership information can be requested from Dave Raab, State MARS director for the Army, phone 225-4128 or Dave Christensen State Training Director 292-9242. Their Website URL is: <http://osm7.cs.byu.edu/people/dubois/MARS/>

Utah Valley ARES holds their general meeting the first Tuesday of every month at 7:00 PM. They also conduct a net each Tuesday at 9:00 PM on the 147.34 repeater which is also linked to the 224.7 repeater. The contact person is Derick Wolsleger KC7KRS phone 465-1344

The **Utah VHF Society** is a group dedicated to maintaining and operating a system of repeaters in the state of Utah. Dues are \$10.00 per year and can be sent to PO Box 482 Bountiful, UT 84011-0482. The Utah VHF Society holds a swap meet annually, usually on a Saturday in February. The Society holds a traffic and swap net for its members each Tuesday night at 8:00 PM on the 146.940 repeater. Contact is Eldon Kearn KB7OGM at 571-9955.

The **Utah TCPIP Users Group** or **UTUG** is an informal group that discusses TCP/IP protocols and other packet information. They are geared to all levels of users, new and seasoned. They hold a weekly net, Sundays, at 8:00 PM on the 146.62 repeater. Their contact person is Clint Turner KA7OEI at 566-4497. Email: ka7oei@uugate.wa7slg.ampr.org

The **Utah Contest Club** is in the start up phase. The President is Jim Lawrence, W7CT. The club callsign is NC7J and the trustee is Matt George, NG7M. The only Scheduled meeting for 1998 is Field Day weekend at the FD site, somewhere near Monte Cristo. For more information contact Jim Lawrence at (801)546-4399.

The **West Desert Amateur Radio Club** in Tooele county holds a net on the 146.98 repeater on Tuesdays at 7:00 PM. The club. meets the first Tuesday of every month except election months. Their contact person is Gene May, KC7MBF who can be reached at (435)882-1222. □

South Jordan Needs Your HELP

I am a member of the City of South Jordan Public Safety Committee. Two different city departments have pooled their resources and purchased a trailer to be used as an emergency command center for use in emergencies and disasters. The contents of the trailer will have to be furnished with donations. Contact has been made with SL County ARES and the State Comprehensive Emergency Management EOC people to coordinate our activities.

We are in need of a 2 m mobile ham radio and antenna for the emergency command center trailer. Any donation would be greatly appreciated. If any business or organization would like to donate, a sign will be placed by the radio recognizing the donor. This command center will be on display at most major city activities.

For any further information, please feel free to call me at 280-5087.

TNX EN 73 Glenn Barnes, KD7BEX □

Examination Schedule for July & August

07/01/98 (Wed.) Farmington
Contact: Marc Uhrey, AB7PL
Phone: H 7710105 B 5364782

07/15/98 (Wed.) Provo
Contact: Steve Whitehead, NV7V
Phone: H 4653983 B 2255200

07/28/98* (Tues.) Salt Lake City
Contact: Eugene McWherter, N7OVT
Phone: H 4846355

08/01/98 (Sat.) Salt Lake City.
Contact: Gordon Smith, K7HFV
Phone: H 5822438 B 5348116

08/19/98 (Wed.) Provo
Contact: Steve Whitehead, NV7V
Phone: H 4653983 B 2255200

08/25/98* (Tues.) Salt Lake City
Contact: Eugene McWherter, N7OVT
Phone: H 4846355

*Only Novice and Technician elements (1A, 2, and 3A) given at this session.

For more detail either call the contact or checkout the information on our web page
<http://www.xmission.com/~uarc> □

Go Take a Hike

It all started over ten years ago when a Don Richardson, WA7QKF, and his wife decided that hiking was an enjoyable way to get exercise, but just doing it once a week wasn't enough. The solution seemed easy enough in addition to a regular Saturday hike, have one in the middle of the week as well, say, on Wednesday. So they tried it and invited some friends to come along, and the tradition of Wednesday night hikes was launched.

With a certain amount of ontheair exposure, including using the '62 repeater to coordinate arrival at the starting location, and talking about the hikes afterwards, several more hams joined in. We're not just sure if it sounded like the "in" thing to do or if they were convinced they were having fun.

Then there were the folks who hiked with us exactly

once and were never seen again. We don't know just why they didn't return, but our phone calls are answered with some comment about further communication being through their attorney.

Well, the tradition is continuing for yet another summer. Every Wednesday evening we meet at 6 p.m. in the parking lot at the mouth of Big Cottonwood Canyon. Our numbers range from about two to twelve. We then pile into a small number of cars and head for one of the nearby National Forest trails. There are enough of them in Big Cottonwood, Little Cottonwood, and Millcreek canyons to keep us busy all summer without repeating. Sometimes the trip is as short as a jaunt around the boardwalk at Brighton, and other times it is as ambitious as Mt. Baldy and Hidden Peak starting from Albion Basin.

Where will we be going next week? Well, we don't know, yet. Wanting to prepare for possible future management positions, we always put off the decision making as long as possible. When everyone has assembled we make the decision together, taking into account the weather, how ambitious we all feel, how much daylight we have, any special requests, and how several tossed coins land.

If you would like to join us, please do. We are fortunate to live where we have so many great mountain trails virtually on our doorstep, and a chance to get up in the mountains for a couple of hours makes a great break in the middle of the workweek. Just show up at the Big Cottonwood parking lot at 6 p.m. on a Wednesday evening. Talkin is usually on the 146.62 repeater. □

Gordon, K7HFV

Ham Hot-Line

The Utah Amateur Radio Club (UARC) has a Ham Hotline, 583-3002. Information regarding Amateur Radio can be obtained, including club information, testing, meeting information, and membership information. Leave your name, telephone number and a short message on the answering machine if no one answers and your call will be returned.

Gary, KC7AWU □