

Feature Article:  
Field Day '97 - Payson Lakes:  
the Fun, Food, and Faux Pas's



Payson Lakes UARC Field Day '97 Site.

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 Exhibition hall located on the Salt Lake County Fairgrounds just south of Murray City Park.

Club membership is open to anyone interested in amateur radio; a current license is not required. Dues are \$13 per year, including a *Microvolt* subscription. Those living at the same address as a member who has paid \$13 may obtain a membership without a *Microvolt* subscription for \$9. ARRL membership renewals should specify ARRL Club #1602.

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). 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. □

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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](http://www.xmission.com/~uarc)

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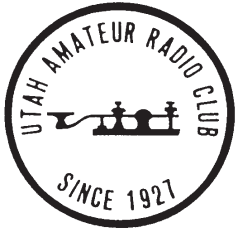
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**MICROVOLT**

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# The Microvolt

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

Volume, XLII, Issue 2 Feb 1998

## QST from the Prez

Greetings for January. I hope Santa looked kindly upon Amateur Radio for each of you. As I get deeper into the activities of being President, I am humbled even more by all the behind-the-scenes activity that took place by the previous board members.

I hope everyone enjoyed the new *Microvolt* as much as I did. A special thanks to Bruce, KI7OM for editing such a fine publication. Also, thanks to all the contributors and Maurien, KC7HOZ for getting it labeled and mailed out before Christmas.

Regarding the club station, I have spoken to the new Director of Emergency Services at the Salt Lake Red Cross. Our previous information about the Red Cross purchasing the Downtown building was incorrect. As it turns out, the local chapter will stay in their office Downtown, but the blood services will be located elsewhere. What this means to UARC is that we can continue with the club station implementation. The Red Cross is very anxious to get the station active. We will be calling on volunteers to help with various aspects of the station. Many have already offered assistance, but please contact me again if you are interested in helping with this project.

We are still looking for a Field Day chairman this year. Planning will have to start in March to make

everything go as planned. Please contact any board member (listed in *The Microvolt* January '98 issue) to find out more information.

It appears that WIMU hamfest will not happen again this year. I have been told that plans are **not** in the works for this year. One final effort to solicit funds and continuing volunteers from each state is underway, but things do not look promising. Should UARC be involved in organizing another area hamfest? I would be interested in the membership's opinions.

Now that 1998 is here (only three more years to the new millennium), the solar cycle is picking up, which can mean only one thing – 20 meters all night long. If you have not tried HF yet, make it a point to get on HF and see what it is all about. Once the club station is active, you can always find a station to operate from, or even upgrade if necessary.

That's all the news I have for this month. 73 and Happy New Year!

Tom NY4I □

## Featured Member of The Month

This month we are featuring Tom Schaefer NY4I. Tom is originally from New York, but lived most of his life in Florida. He has been in amateur radio for 17 years and has his Extra Class license. He received his Novice license when he was in high school in Dunedin, Florida. Tom was very active in the Dunedin Amateur Radio Association. For about 7 years Tom was the VEC Coordinator and coordinated monthly test sessions. He has participated in field day for 15 years and his call sign was used for quite a few of those events. Speaking of field day, Tom did a fantastic job as the UARC '97 field day chairman last June. It is also worth mentioning that Tom loves contesting.

Tom is our new UARC president, elected at the December 1997 meeting. His focus is the club station. He would like to see us have a station where the newcomers could come and learn all about HF communications. Maybe this would motivate them to upgrade. This would also be an excellent opportunity for those who lived in places that are not allowed to have antennas to still operate.

He would like to see the club to do more publicity in order to educate the public regarding ham radio. He would also like to see more young people get into the hobby. It goes without saying, Tom is an avid supporter of amateur radio. Tom said that it was amateur radio that led him to his current career. He is a computer programmer for UPP business systems and works at First Health. Tom and his wife, Cheryl, have a 4 year old boy named David.

Tom, congratulations, we know you'll do a great job as UARC president.

73 N7HVF Linda Reeder □

## A Blast from the Past

Alan Seyboldt, K7OPT, found the following minutes from a 1931 UARC meeting along with the role from that meeting on the floor of our equipment storage shed. There are a large number of these sort of documents still in the procession of the club and we will publish these from time to time.

Sixty seven years ago it seems even then there were people with strong opinion in UARC.



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### New Meeting Place Sought

A funny thing happened on the way to the County Recreation Department. We went to renew our reservation for the club's monthly meeting place and were told there was a problem. Reserving the building for the winter and spring dates was easy enough, but the fall would be a problem because the building was scheduled to be torn down in August!

Well, we are now actively looking for a new meeting site. Let one of the officers know if you can think of any likely candidates. We need a room that will hold at least 120 people and that is available on the first Thursday of each month (except for July and August). We would need it from about 6:30 to 9:30 p.m. each meeting night.

Of course it would be nice if the facility were free, but we are used to paying a few tens of dollars each month and that could still be arranged. It would also be nice if the place were somewhat central in the Salt Lake valley and had enough parking to accommodate those 120 people.

So, if you know of a room in a school, church, or business that might fill the bill, be sure to contact someone on the board of directors and pass along the particulars.

Also, remember that the site will be changing some time between now and next September. Watch future issues of *The Microvolt*, our web-page, and the Sunday night net for details. □

### Club Station Still On The Way

The project to establish a club station is still alive and well, if a bit delayed.

You may remember the plans from last spring: UARC would join with Salt Lake County ARES and the American Red Cross to establish a station to be used for training and casual operation in normal times, and for emergency communications in times of emergency. UARC would provide the equipment and the Red Cross would provide the site.

Plans were put on hold when it appeared the Red Cross might be buying the entire building rather than just leasing the basement. This would change, considerably, the ideal positioning of operating room

and antennas. Then, when we tried to get more information, we found that the person we had been working with was no longer with the Red Cross.

Tom Schaefer, NY4I, UARC's new President, has been spearheading the project. He reports that he has contacted the new person in charge of emergency services, and she is very supportive of our proposal. It now appears that the extra space the Red Cross needs will be obtained elsewhere, and the existing group will continue to rent the basement. So we are back to "Plan A."

It is hoped the space can be used for the station as well as classes, demonstrations, and small meetings. (Unfortunately, the space is not large enough for our regular monthly meetings.) Discussions are being scheduled involving the three entities, so everyone is hopeful the club station will be up and running soon. □

### Synchronous '62 Project Called Off

At UARC's annual SteakFry last July, it was voted for the club to proceed with a proposal to build a second repeater on 146.62 to be located on Scott's Hill. This site, on the ridge between Big Cottonwood and Millcreek canyons, would have extended '62's range to include Park City and the eastern portion of I80 in Utah. It now appears unlikely that the project can go forward.



The Scotts Hill Radio Building - Demolished by order of the U.S. Forest Service?

Bruce Bergen, KI7OM, made the proposal to construct the repeater after doing considerable negotiation with the Forest Service. Bruce was told that there should be no problem obtaining a special use permit for the building, now abandoned for nearly 20 years. The Forest Service representative even

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thought that the customary use fee could be waived in this instance. Bruce spent many hours preparing the requested paperwork.

Unfortunately, when the matter reached the Superintendent of the Salt Lake District, he had quite a different view. He not only refused to issue the permit but ordered the last known occupant of the building to have it torn down. Bruce was able to get Congressman Merrill Cook to write the Supervisor a letter favorable to the amateur cause, but to no avail.

The most recent chapter in the saga involved an announcement that the Superintendent would be moving to a new position out of Utah. Is there a chance his replacement would be more friendly to our cause? Could we yet obtain a "stay of execution" for the building? Well, there may be a slight chance, but the best guess at the moment is that the project will have to be abandoned. □

### Repeater News

Sometimes, it seems, you have to run as fast as you can just to maintain status quo. This has seemed to be the case with the UARC repeaters this year.

#### The Farnsworth Peak Problem

On Farnsworth Peak, site of the 146.62 and 449.1 repeaters, much construction is underway to provide a tower for a new digital TV station. As a result, the building that used to house the transmitter portion of '62 and the structure that supported the transmitting antenna have now been torn down.

The first impact of all this happened a few days before the demolition was scheduled to begin when '62 mysteriously went off the air. It turned out that someone had disconnected our transmitter feedline thinking that it had been abandoned. However we were only a few days away from a need for action, anyway. We installed a temporary antenna on the roof of the building holding the '62 transmitter. This antenna consisted of five pieces of #12 copperweld wire soldered into a female UHF coax connector. It wasn't much, but it got us through the rest of the summer and let us start thinking about more permanent solutions.

At first it appeared that we could simply erect a small tower of our own to take care of the needs of '62,

449.1, and the new ATV repeater. But then, more bad news started coming in. The place we thought we could install the tower had propane lines running underneath. The building we thought we could place our new tower against was itself a candidate for demolition. There was no place else nearby where a tower could go.

As winter weather started threatening to close off access for the season, John Clark, N7SFN, and Dale Jarvis, WB7FID, installed as the new transmitting antenna, the antenna that had been used as a standby receive antenna. They placed it in some space on a small tower that KSL (the site owner) had erected. We hope this arrangement will get us through the winter. However, even this tower will probably have to be taken down next summer when construction starts on the new tower.

It is looking as if our best longterm solution will be to build our own building. This may be quite timeconsuming and expensive, but may still be worthwhile to help us keep repeaters in this very desirable site. Any volunteers good at construction, electrical wiring, etc., contact Randy Finch, K7SL, our repeater engineer, at 277-7135.

### The Lake Mountain Problem

The other important site for UARC repeaters is Lake Mountain, home to the 146.76 repeater. Our first clue that something was happening came when we received a phone call telling us that the 100foot tower on which our antennas were mounted would be coming down in two weeks.



The old (left) and new (right) towers at the Lake Mountain repeater site



We could move to the new replacement tower (120 feet), but we would be expected to follow the normal commercial practices for antenna mounting and feedline support. This meant that we had to come up with a scheme other than the (now rusty) homebrew brackets that had kept our antennas in place since the middle 70's.



Notice the size of the base of the new 120' tower

It turned out that one of the other tenants was not quite ready to move, so the old tower was granted a stay of execution until summer of 1998. That was fortunate because two weeks wasn't even enough time to get the parts we would need for a full commercial standard installation, let alone enough to make the move.

We placed orders for two Sinclair antennas which were soon stacked up in KG7GR's back yard beside the tower sections destined for the Farnsworth site. The special rubber donuts used to support the feedlines on their vertical runs were a little harder to get. The State (the landlord for the Lake site) said they could order these special items for us. We placed the order and started waiting. After a month went by and we had no word of arrival, we called to find out what was going on. A check revealed that someone higher up on the chain had nixed the idea of our being able to buy these items through the state. Gee, guys, thanks for telling us!

By now it was November and the season for moving antennas was rapidly coming to an end. John Lloyd, K7JL, came to the rescue and ordered the required donuts ("cushions" in the manufacturer's terminology), using his commercial connections.

The next step was to find some fooli--, er, some willing volunteers to try to install the new antennas and feedline. We got on the air and started making our

needs known. Before long Ray, KC7YVP, had volunteered his mountain climbing gear and expertise for raising the new antennas into place, and Stan, K7JZ, volunteered his truck to carry the 24-foot-long antennas mountainward. Before long Garth, KA7MHN; Gary, KK7DV; Clint, KA7OEI; Dale, WB7FID; and David, KC7RHW, had all volunteered for the expedition.

The appointed Saturday arrived and the group headed for Lake Mountain. Something that kept drawing everyone's attention was the fact that the area was sunny except for the top of Lake Mountain which seemed to be permanently lost in a large cloud.

Sure enough, when we arrived at the 7600-foot repeater site, there was light snow falling. Undaunted, Ray and Gary proceeded to rig ropes to hoist the antennas. Meanwhile, the rest of the party worked on getting the antennas out of the boxes and assembled. It was discovered that some bolts were needed to assemble the feedline clamps. Fortunately, Dale had been waiting in Orem in case of such a need. He headed for the mountain via his friendly local hardware store.

Getting the lower antenna into place was not trivial, but the fact it could be lifted into place from higher positions on the tower helped a great deal. Soon, the new transmitting antenna was in position.

The upper antenna (to be used for receiving) was more of a challenge. Finally, Garth managed to hang out over nothingness in his climbing belt and muscle the antenna into place. Others rushed in to fasten down the hardware.



A view looking up the tower when you could still see up there. Gary Crum, KK7DV is near the center of the picture with Garth Wiscombe, KA7MHN close by on the left.

## February Meeting: Women in Amateur Radio

Amateur radio is often looked at as principally a man's hobby. But the fact is that many women are deeply involved as well. The coming meeting, to be held Thursday, February 5, will explore the role of women in the hobby, both locally, and nationwide.

The program has been put together by one of our Program Chairpersons, Linda Reeder, N7HVF. The centerpiece of the program will be a radio program that Linda produced for KRCL. In it Linda interviews prominent ladies in amateur radio from throughout the country. Included are Janet and Janice Robideaux, the twin sisters in Minnesota who own their own repeaters; Ethyl Smith, founder of the YLRL organization; Carol Perry, from New York; and Sister Alverna O'Laughlin, Educational Coordinator for the Courage HANDIHAM system.

The program will also include live presentations from several prominent women operators from our own area.

Come and find out about the unique challenges and accomplishments for women in amateur radio.

UARC meetings are held in the Little Theater building in the Salt Lake County fairgrounds. (Neither the building nor the street is marked with a number, but the address is approximately 5150 South and 150 East. Follow the sign that says "Square Dancing".) This meeting place will be changing sometime before fall of 1998, so watch the Club Web page <http://www.xmission.com/~uarc/>, Sunday night net, or *The Microvolt* for more information. □

## Steak-Fry Date Set

It may seem a little premature to talk about going up into the mountains as a way to stay cool, but, believe it or not, summer will come. The annual steak fry, 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.

Prices and preregistration deadlines? Well, even the officers think it's a bit too early for that, but keep an eye on this space and they will be announced in due time. □

At one point, the tower crew asked the ground crew: "Can you look up and see if the antenna is straight?"

"Sorry," came the answer, "we can't see the top of the tower any more." Sure enough, the fog had rolled in and the tower seemed to vanish as it rose into the greyness. Those on the tower later reported that their only clue of a world still existing below them was the sight of the old 100-foot tower which still made it high enough to be seen.

Feedlines were run, connectors were attached, the sun-set, and, about three minutes before terminal hypothermia set in, the installation was complete. Garth could barely use one arm, and David, the only one without fourwheel drive, set off down the road before it became impassible. Tools were packed away and most of the party began heading home, thankful for vehicles with good heaters.

Clint, Dale, the author, and Reese, KB7JDS, stayed to make some tests on the new antennas. Both showed good SWR readings. The new transmitting antenna seemed to work somewhat worse than its predecessor in tests with a station in the Holladay area, probably due to the antenna's proximity to a tower leg. The new receive antenna, however, showed a 5 dB improvement. A number of sensitivity and spectrum measurements were made, mainly to establish a base line in case the appearance of Channel 16 caused reception to degrade.

Over the next several weeks two more trips were made to tie down feedlines in accordance with state specifications, something that there had not been time to do on the first trip. Thanks to Gary, KK7DV; Reese, KB7JDS; and Bob, KK7KR, for getting this job done.

So the move is all finished? Well, not quite. The new 2meter antennas are in operation, but the control and link antennas have yet to be moved, and the old 2meter antennas have yet to be taken down. A mounting scheme needs to be devised for the link antennas. But we think the worst is over and the remaining jobs can be put off until spring.

If you would like to help with any of the remaining jobs, get in touch with Randy, K7SL, 277-7135, or the author, Gordon, K7HFV, at 582-2438.

Gordon Smith - K7HFV

Photo Credits David Wall - KC7RHW □

## Field Day Chairman Needed

Been wondering what to do with your copious idle time in June? Well, here's the answer you've been looking for: *volunteer to be Field Day Chairman*. Yes, UARC is looking for someone to lead this popular annual event.

Field Day is a national contest to be held, this year, on the weekend of June 27 and 28. It is a contest when everyone takes to the outdoors, because the premium (in terms of contest points) goes to the groups operating portable and mobile stations.

UARC enters as a club each year and uses the event as a family outing as well as a chance to operate a good HF station. Traditionally (at least since 1992), UARC goes to an unimproved site near the Payson Lakes campground in the mountains above Payson Utah. Participants start arriving as early as Thursday night before the Field Day weekend, and come and go until the last contact is made and the last antenna torn down, sometime on Sunday afternoon. Of course, as the chairman of the event, you could opt to pick a different site and/or a different emphasis.

It is important to note that this is not a one-man show. There are many people willing to help (and room for more to volunteer) in areas ranging from planning the antennas to hauling up the porta-johns. There are people who will help prepare generators, supply computers and logging programs, schedule operators, coordinate food, set up tents, and even operate in the contest.

So how about it? Haven't you been waiting for a chance to be the one everyone comes to for the answers? If you're interested, get in touch with any of the club officers. If you don't know how to do that, a good starting place is President Tom Schaefer, NY4I, at 569-2664. □

## Scout-O-Rama Special Event Stations

UARC, in cooperation with the Great Salt Lake Boy Scout Council, will sponsor a Special Events Station at the 1998 ScoutORama held on May 2, 1998 at the Utah State Fairpark. Stations will be setup on HF, VHF, and packet to provide a "handson" display to the Scouts, Scout Leaders, and the general public. Anyone interested in assisting in this operation should contact Eugene Christensen, KC7CSE, at 571-3576. □

## 70CM Autopatch Down

The popular autopatch on the 449.1 MHz repeater is out of service and may remain that way until next summer. Like most autopatches associated with mountaintop repeaters, this one resides down in the valley where affordable telephone rates are possible. The autopatch audio is sent to the mountain on a separate link frequency. Problems with either the patch itself or the facilities on the mountain to relay its audio can cause an outage.

In this case, problems on both ends developed almost simultaneously. When the problem was first reported, it was discovered that the autopatch itself did, indeed, have a problem. That having been determined, no particular attention was paid to the mountaintop end of the system. Only later, when tests were being run with the repeater itself, did it become apparent that there was a problem on the mountain as well. Unfortunately, by this time, heavy snow had closed the road for the season. The reopening usually occurs in June.

There is always a chance that someone might offer a free helicopter ride or that a party might get ambitious enough to make a snowshoe trip, but the first time that access is virtually guaranteed is next June. In the meantime, Glen Worthington, WA7X; and Clint Turner, KA7OEL, are working on the problem at the other end. Operation of the repeater itself is not affected by the outage; the repeater continues to be available.

The 449.1 repeater is owned and operated by WA7X. A special agreement with UARC provides that the club pays for the patch's telephone line and the repeater and patch are made available to UARC members. □

## \$2 Dues Increase Proposed

At the January UARC Board Meeting, the UARC Board voted unanimously to recommend an increase in the annual UARC club dues to \$15.00. Additional family memberships will remain at their current rate of \$9.00 annually. The reasoning for the recommendation is to offset additional costs of printing *The Microvolt*. As you may know, the cost of printing *The Microvolt* has increased \$175 per issue. As an alternative to raising the dues, the Board discussed reducing the size of *The Microvolt* to 12 pages instead of the current 16. While that would offset MOST of the increased printing costs, it was

generally felt that the amount of quality information and timely news in the 16 page *Microvolt* was important to maintain. Of course, the final decision remains with you, the membership. I will present this at the February meeting, but table any voting until the March meeting. As with any decision of this magnitude, debate is expected. After reading this issue of *The Microvolt* and the March issue, I hope you feel the additional \$2.00 per year is wellworth the timely, accurate information available in this fine publication.

Best Regards,

Tom Schaefer NY4I  
President □

## Other Club News

### DCARC

The Davis County Amateur Radio Club elections were held Saturday, December 13. The new officers for 1998 are:

President: Mel Parkes, N5UVP  
VP: Gary Smith, KC7IHZ  
Secretary: Jim Cottrell, AB7OI  
Treasurer: Kate Billings, KB7ZCA

The new newsletter Editor for the coming year is Lon Stuart, WM7E. He will be taking on his duties as of the February newsletter. His email address is [lstuart@oecmed.com](mailto:lstuart@oecmed.com) for text and attachments, and [WM7E@juno.com](mailto:WM7E@juno.com) for text only.

Cheers Lon WM7E

The gene pool could use a little chlorine! □

### Ogden Amateur Radio Club Elects New Officers for 1998

The following individuals are to be congratulated on being elected at the December OARC meeting. Their willingness to serve OARC, is commendable. For some this has been a multiple year commitment.

President: Fred Mabrey, KJ7RH  
Vice President: Carl Hunter, W7STB  
Secretary: Chaurie Gibbs, KC7SJV  
Treasurer: Richard Cowley, KB7KYC

1st Director: Robert Porter, K7WYU  
2nd Director: Dale Kholi, K8WKM  
Newsletter Ed.: Robert Vanscoyk, KJ7YE

OARC or Ogden Amateur Radio Club meets the 3rd Wednesday of each month in Ogden at 7:00PM. The meetings are held in the Red Cross building at 2955 Harrison Blvd. Members and nonmembers are invited. Dues are \$15.00 per year and can be sent to P.O. Box 3353, Ogden, UT 84409. The OARC Web Page Editor is Kelly Vining, KE7WI. The OARC Web Page URL is <http://www.lgcy.com/oarc.html> or [oarc.axtech.com](http://oarc.axtech.com) will work with most browsers. The contact person is Fred Mabrey, KJ7RH, who can be reached at 782-6309.

Kelly Vining KE7WI □

### Payson High School Amateur Radio Club (KC7PJY)

The club is composed of students who are interested in radio communications. Most members come from the Electronic Communications class which is a regular part of the curriculum utilizing amateur radio in teaching communications principles. About half of the students from this class will obtain an amateur radio license. Several students from Springville High School also participate

Once licensed, a student may check out a 2 meter hand held radio (Alinco DJG1T) by joining the club (\$10) and paying a weekly fee of \$1 to use the radio. Students build JPole antennas from 1/2 inch copper pipe to use at home and learn about installing connectors and SWR measurements. They also learn how to use repeaters, the autopatch, packet, slowscan tv and some HF operating.

Many students get involved in the local ERRS group. Some students go on to learn morse code and upgrade their licenses. A major event is to provide communications for the annual 50/20 (50 miles in 20 hours) hike in May sponsored by a local scout unit. This involves staying up all night and keeping track of up to 300 participants.

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](mailto:srobert@admn.phs.nebo.edu). Co-advisor is Reed Thomson, N7YVJ □ .

## UARC Field Day 1997 - Payson Lakes

For those of you who have not been to a Field Day, you are missing out on a big part of Ham Radio. Field Day to me is getting to rub shoulders with friends, camping out in the woods, eating good food, telling stories and of course some great operations on the radio. My first Field Day was the first time I ever operated an HF Radio. You are around many Hams that will help you and make your first experience a fun one. For those who did not make it last year here are some of the things that we tried to do.



Dick, K7MZ logs for Alan, K7OPT at the CW station

We had a computer logging system via N6TR which Tom, our new President, got up and working. Like the years before, we had three stations up and running although we only entered as a 2A. The novice station was up and running for any who wanted to try a more leisurely approach to Field Day. We had the tri-bander beam up and running for the phone station.



Eugene & Eugene KCTCSE and N7OVT stand near the generator/tower/Tri-bander. The masts for the wire beam antenna can be seen in the background near the trees.

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For the CW station we tried some very interesting experiments, one of which worked very well and the other, well let's say looked very impressive but probably talked to the ground better than the horizon. Our antenna system that worked well, was a phased 1/4 wave vertical system on 40 meters. They directed our signal due east and gave us an open band night and day on 40.



Bill, AA7XS logs at the phone station

Our experiment on making an 80 meter 3 element wire beam was nice looking but failed miserably, even though Clint KA7OEI made some valiant attempts to bail us out. Our info was incorrect for the formula (maybe we can enlist Alan KO7X this next year to work on this project?) We also had a Carolina Windom strung across the whole camp. We also had a packet station up and running and also various contacts on 144, 440 and 50 MHz.. The stations kept busy all through the night and into the next day.



Eugen - N7OVT and Steve - KC7IAS, try working a satellite as Jeff - KA7SVU and Dick - K7MZ learn how its done.

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We tried to make it a fun event and not just an all out contest which would chase off some of the newcomers who wanted to operate. After looking at the logs and seeing who operated, I feel that we had a very successful Field Day. We got many newcomers that operated and also did very well as a contest station. We had a slide show the first evening showing the daily events (and the slides were actually developed and mounted right up at camp!) The food was great! and the weather could not have been better. Make plans to come up this year. If you would like you can just drive up and not camp, but do make plans



Dave - NJ7A worked hard for the 6 Meter contacts he made



Alan - K7OPT, UARC President at Field Day and author operates KC7NGH's attache' 2m mobile

For more info contact one of the board members so you can volunteer. By the way the board is still looking for a 1998 Field Day chairperson. We do need some one who has a hitch to carry the porta potties up. Believe me you can be a VERY popular person by bringing up the porta potties. Tnx to all who helped us last year and look forward to this year being just as fun.

73 Alan Seyboldt K7OPT □

Photo credits - Cover and 2nd thru 6th are from your Editor Bruce Bergen KI7OM and the first photo in the article was provided by Alan - K7OPT but obviously was not taken by him. The Photos were originally 35mm color prints, scanned in with a HP 5p flatbed scanner into PaperPort, transferred to Corel PhotoPaint 8.0. In PhotoPaint they were converted to either 8 bit or 16 bit greyscale. They were then adjusted for brightness, contrast, intensity, and in some cases sharpened. This process enables one to bring out features (such as Alan's face) which without this process, would have been in the dark. Thought some of you might be interested - Bruce - KI7OM Editor □



## Intermountain Area Amateur Radio Clubs

**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. Post members provide communications for various parades, Boy Scout functions and participate in other ham groups. Contact person is Post President Sarah Whitehead KC7KEI 465-3983, Committee Chairman Derick Wolsleger KC7KRS 465-1134 KC7KRS@ucare.org, or Advisor Terry Gardner N7QGA 785-7517 jerrygardner@juno.com.

**BARC** or The Bridgerland Amateur Radio Club meets the 2<sup>nd</sup> Thursday of the month (except June, July and August) in the basement of the Sheriff's Office. They hold a net at 9:00 PM on the 147.20 repeater every Tuesday. Their contact person is Dean Stevens N7WVY at 753-2664.

**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 repeater and 147.42 simplex. For further information please contact Mel Parkes, N4UVP at (801)547-1753

The **Dixie Amateur Radio Club** (D.A.R.C.) meets every third Wednesday in the basement of the Washington County Building in St. George. A radio net begins every Sunday evening at 7:00 P.M. on 146.82, or 146.91 if the 82 repeater is having

problems. They can be contacted by writing: Dixie Amateur Radio Club P.O. Box 422 Santa Clara, Utah 84765 Contact: Gary Humphrey KB7PZS Email: garyh@infowest.com.

**Eagle Rock Amateur Radio Club** Idaho Falls, Idaho operates the 146.640 (-) and 146.740 (-) repeaters. Club meetings are held the 1<sup>st</sup> Wednesday of each month at the Idaho Falls Law Enforcement Building at 7:30 P.M.. Contact person is club president Donn Bate, KB7UZN - (208)5243829 Email: kb7unz@ida.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. 147.12 and 147.36 are linked part time from their end. Contact Person: Robert Kirner - NØMBJ Mail:3087 Bookcliff, Grand Junction, Co. 81504

The **High Valley Net** from Heber meets every Monday at 9:00PM 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 #6-14 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/>. Membership information is also available on their web page.

**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 9:00PM. 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 3<sup>rd</sup> Wednesday of each month in Ogden at 7:00PM. The meetings are held at the Red Cross building at 2955 Harrison Blvd. Members and nonmembers are invited. Dues are \$15.00 per year and can be sent to P.O. Box 3353, Ogden, UT 84409. 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 3<sup>rd</sup> 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 mtr gateway repeaters. Their net is on 447.900 every Thursday night at 9 PM. Contact Marc Peterson KB7YJJ at 9779845 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 in-person meeting is held the third Wednesday of each month. For more information please contact Don Scarlett N7DIZ at 278-3204.

**Sinbad Desert Amateur Radio Club** (SDARC)

sponsored repeaters are linked together on a full time basis and cover most of Eastern Utah with the following repeaters: 147.060+ Horn Mountain, 145.310 Ford Ridge, 147.140+ Cedar Mountain, 147.320+ Bruin Peak, 146.610 Abajo peak, 146.760 Bald Mesa \* Microwave link, 146.900 Dwtwn Moab \* Microwave link. Other repeaters not fulltime linked to the system include: 447.700 Horn Mountain, 223.920 Skyline Drive, 224.480 Navajo Mountain, 448.550 Cedar Mtn., 145.430 Dwtwn Price, 442.025+ Star Point, Club Dues: \$25.00 First Year. \$20.00 Each Year thereafter. Contact Person: Communications - Jim Anderson, KG7BC, Email jima@ecs.co.emery.ut.us.

**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). There are currently no dues, but the club is deciding at this time how much to charge for dues. 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) 5947132. 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 Theater Building located on the Salt Lake County Fairgrounds (5200 S. and 200 E.) just south of Murray Park at 7:30 PM. There is a newcomer's meeting held prior to the main meeting 7:00 PM.

**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.

**Note from the Editor Regarding Club List:**

An extensive effort was made to update the club list which unfortunately had not been reviewed and changed for over two years. Considerable work went into obtaining information on all Ham clubs in the state of Utah, which had not been previously listed. I was already aware of several organizations in the southern part of the state but found obtaining all the information, which I felt would be useful, proved daunting at times. I would like to thank the many webmasters and officers of the other clubs who responded quickly to my pleas.

You will have noticed that I have also included information on clubs from our immediate neighboring communities in Colorado, Nevada, and Idaho. I would like to include, in a future edition (possibly 3 months out), information on organizations in SW Wyoming, and NE Nevada. This means east to Rock Springs and west to Elko. In addition, I was unable to obtain a concise listing from Utah Army or Air Force Mars.

This list will be made available both to Carol, KC7LLW, who provides the scripts for our Sunday Nite 9:00 PM Info Net on 146.62 (carried on the Snowbird system) and as flyers to Gordon K7HFV, and Eugene N7OVT who conduct our local testing sessions - for newly licensed hams. Both these test sessions draw from all over the state. Anyone else will be free to reprint the information for similar purposes.

If anyone has corrections or additions, please don't hesitate to contact me directly. As always I prefer Email (bbergen@xmission.com) but phone calls or fax's will also be accepted. Home telephone is (801)943-1365 (Salt Lake) work is (801)434-0233 (Orem). For faxes call first.

I hope the readers find this list both useful and interesting. Almost all of us travel and visit these areas near the Wasatch Front from time to time and make use of the repeaters and perhaps even check into the local nets. Hopefully this information will allow you to be aware of the organizations and people behind these facilities.

73 Bruce - KI7OM

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, and there are no dues (at this time). For more information contact Jack Christensen KD7NX at (801)581-0897 or email Jack.A.Christensen@siemenscom.com.

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 Keith McQueen N7HMF at 224-9460.

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 Kearl KB7OGM at 571-9955.

The Utah TCP/IP 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 K A 7 O E I 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 and he can be reached at (435)882-1222. □

**Wasatch Front Amateur Radio Examination Schedule**

**02/07/98** (Sat.) Salt Lake City  
Contact: Gordon Smith, K7HFV  
Phone: H 5822438 B 5348116

**02/18/98** (Wed.) Provo  
Contact: Steve Whitehead, NV7V  
Phone: H 4653983 B 2255200

**02/24/98\*** (Tue.) Salt Lake City  
Contact: Eugene McWherter, N7OVT  
Phone: H 4846355

**03/04/98** (Wed.) Farmington  
Contact: Brent Thomas, AC7H  
Phone: H 2928110 B 5383700

**03/18/98** (Wed.) Provo  
Contact: Steve Whitehead, NV7V  
Phone: H 4653983 B 2255200

**03/31/98\*** (Tue.) Salt Lake City  
Contact: Eugene McWherter, N7OVT  
Phone: H 484635

\*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 webpage GOTOBUTTON BM\_1\_ <http://www.xmission.com/~uarc>

Send additions or corrections to Gordon Smith, K7HFV □

**Utah Ham Census**

Class	Dec. 1996	Dec. 1997	Increase (Decrease)
Extra	498	517	3.82 %
Advanced	832	830	(0.24)%
General	758	764	0.79 %
Tech Plus	1723	1741	1.04 %
Technician	3125	3547	13.50 %
Novice	691	626	(9.41)%
Total	7627	8025	5.22 %

Courtesy The W5YI Report □

**1997 UARC Financial Report**

INCOME/EXPENSE	INCOME
Book sales revenue	4,779.98
Donations	108.00
Interest earned	413.13
Membership dues	6,293.50
Misc events (swap meets)	864.00
Steak fry revenue	431.00
<b>TOTAL INCOME</b>	<b>12,889.61</b>
<b>EXPENSES</b>	
Administrative overhead	27.57
Bank service charges	5.66
Books, inventory purchase	3,869.04
Capital - ATV Repeater	1,193.81
*Capital -62 & 76 Repeater move	4,378.69
Expenses for monthly MTG	286.56
Expenses of Field Day	707.81
Ham Hot Line	209.30
Microvolt mailing cost	909.40
Microvolt printing costs	3,144.50
Microvolt labels costs	600.00
Microvolt expenses - Other	26.39
Postage O/T Microvolt	192.00
Repeater phone costs	675.05
Repeater associated costs - Other	148.20
Sales tax pd on bks sold	312.57
Steak Fry Reservation	133.24
Steak fry expenses - Other	879.66
Storage	408.00
To other organizations	50.00
<b>TOTAL EXPENSES</b>	<b>18,157.45</b>
<b>TOTAL INCOME/EXPENSE</b>	<b>-5,267.84</b>

\* One time expenditures for ATV repeater and relocation of '62 & '76 repeaters were covered by reserves □.