



This edition is a special edition on UARC Field Day held at Payson Lakes. Many thanks should be given to many people who made this successful Field Day. Hope these pictures and articles catch the activities which happened. Next UARC Meeting will be September 2nd.

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Microvolt

SEPTEMBER, 2004

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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.

Meetings: 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 University of Utah Engineering and Mines Classroom (EMCB) building, Room 101.

Membership: 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. Send dues to the Club Secretary: Dick Keddington, KD7TDZ, 1732 Woodside Dr #32., Holladay, UT 84124-1624. ARRL membership renewals should specify ARRL Club #1602.

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

Repeaters: UARC maintains the 146.62- and 146.76- repeaters. 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 available to UARC members. 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.

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

Publication: 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 (gopenshaw@msn.com), but other means including diskettes and typewritten submissions can be mailed directly to: Gary Openshaw, 861 Roosevelt Ave., Salt Lake City, UT 84105. All submissions are welcome but what is printed and how it is edited are the responsibility of the Editor and the UARC board. Reprints are allowed with proper credits to *The Microvolt*, UARC, and authors. Changes in mailing address should be communicated to the Club Secretary: Dick Keddington, 1732 Woodside Dr #32., Holladay, UT 84124-1624.

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Board Liaison &	
Autopatch Engineer: Gordon Smith, K7HFV	582-2438
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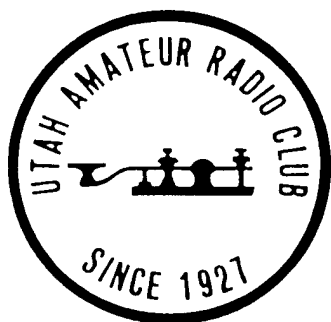
For late breaking news listen to the UARC Information Net Sundays at 21:00 on 146.62 or set your browser to:
www.xmission.com/~uarc/announce.html

We are grateful to the management of XMission, our Internet Service Provider (ISP), for the donation of our Web-Page service.



The Microvolt

The Official Publication of the Utah Amateur Radio Club, Salt Lake City, Utah
Volume 48, Issue 8, September, 2004.



QST from the Prez

Glen Worthington, WA7X

The summer is almost over and we are ready to get back into the swing of things with our September meeting. This should be an interesting one.

We will have a couple of

teams compete at designing, building, demonstrating and describing a simple amateur related project in the course of the meeting. Kind of Junk-Box wars. Come and see how to transform "junk" into something useful and interesting! This should get us all primed for the October Homebrew night too.

During the past few months we have had someone break into the Scott's peak UARC radio site and do some vandalism and theft of radio equipment. Please keep your eyes and ears open to see if anyone boasts of doing this (crooks are pretty stupid and can't keep a secret for long). We have also had a report of a handheld being found in the Olympus Cove area. Anyone missing a handheld please contact me for further information to identify the unit. There has also been a mobile rig taken from a ham radio operator's vehicle a few months ago. I know how frustrating this can be as I had a vehicle broken into and my dual-bander stolen years ago. I persisted and found the culprit and pressed charges (much to the surprise of the County Attorney who said most people drop it after recovering the property). I also received full restitution, which was pretty expensive for the crook, because it involved a then expensive cell phone and broken side window.

When you have the opportunity, always persist in following through with charges, this is the only way a crook will learn.

73
Glen
WA7X

Help Wanted: UARC NET

UARC needs help with the Information Net on Sunday evenings at 9:00pm. Net Control Operators are needed, as well as someone to do *Other Club Information*. Please call Mike Youngs, KK7VZ, 298-7282 or E-Mail him at youngs@qwest.net, and be involved.

UARC Steak-Fry

UARC would like to thank all those who helped with the Steak Fry in July up at the Spruces. All your work was appreciated. The food was great and all had a great time. Thanks again to Roy Eichelberger, W7ROY, for all his work and preparation, and the Bennions, again, for cooking the food.

September Meeting

First Thursday meetings resume for the fall with a new kind of program dreamed up by UARC President Glen Worthington, WA7X. September 2nd will be the Junkyard Wars. Two (or possibly more) teams will compete to build a working electronic device during the meeting. They will be supplied with specifications and a box of parts. Who will win? Will either team succeed? Will the teams want to enter their projects in homebrew night? Come find out.

October Meeting- Homebrew

Please remember to start making your Homebrew projects that you will need by the UARC Meeting on October 7th. This is one of the best meetings of the year. We will see you there.

Member of the Month

Linda Reeder, N7HVF

This month we are featuring Mike Richmond KF7IQ. Mike has been in amateur radio for 20 years and has his Extra class license. He received his first license when he was 24 years old. Mike says he has been interested in amateur radio since he was a child. He used to love to visit his uncle in Las Vegas, Nevada, and watch him operate his amateur radio equipment.

What does Mike like best about amateur radio? Contesting and DX. He received his Worked All States award in 1988. Most of it was done by way of CW. Even though CW has fallen away, Mike still loves it. He says it is a lot of fun. He wants to help people upgrade to General, so he is transmitting code practice on two meters on 146.58 simplex, Monday through Thursday, 7:00 P.M. until 8:00 P.M. He starts at five words per minute and works up to ten words per minute. Mike even has quite a collection of different code keyers, totaling 25 units.

Mike is a member of UARC. He was a club officer in the 1980s. Mike was the UARC Secretary for two years in a row. Mike is an ARRL VE and helps Gordon with the testing. Mike is also involved in emergencies. He has the Murray City CERT level 1. Mike has completed the Emergency Education Level 1 program offered by the ARRL. Besides having his amateur radio license Mike has his commercial general radiotelephone license.

Mike works for Air Crafts Environmental. He tests aircraft components to see how they hold up in different environments such as varying temperature and altitude. Mike has four children and they are all grown now. He has two girls and two boys.

Mike, we appreciate your helping people with the Morse Code so that they can upgrade to General.

73 N7HVF Linda Reeder

Field Day

It's over for another year and many of the operators are speaking coherently again, but the memories will be with us a bit longer. UARC's entry in Field Day 2004 attracted many attendees and gave many operators their first shot at contesting.

Field Day is an annual contest sponsored by the American Radio Relay League (ARRL) and held each year on the fourth weekend in June. The object is to make as many contacts as possible from a portable location over a 24-hour period. The contest gives operators practice in setting up equipment rapidly and in copying a large amount of information quickly and accurately -- skills needed to provide effective communications in an emergency.

Lonnie Oaks, K7LO, was the Field Day Chairman and he planned the event at our traditional Field Day site near Payson Lakes. Hams and their families began to arrive as early as Thursday, June 24.



Field Day Operating doesn't stop just because it's 2:00am. The moon shines behind the A4 atop Bryan's 75-Foot tower. (Photo by KA7OEI)

Bryan Scott, K7BLK, brought his company's 75-foot motor-driven crank-up tower with trailer. After the club's A4 tri-bander was mounted on the tower, the package made quite a sight in the middle of the national forest.

According to contest rules, setup could officially begin at noon on Friday. But the setting up that

could be done was limited a bit because the trailer with the club's generator and towers had not yet arrived. As Murphy's Law would have it, right after the generator trailer arrived that evening, a serious thunderstorm came up and thoroughly drenched the area for over three hours. At least two families packed up and left.



Saturday morning was more pleasant. By contest starting time at noon, at least one station was on the air, and others followed shortly thereafter. UARC President Glen Worthington, WA7X, had his usual satellite Internet connection with local wireless connectivity. This made it possible for Glen to stand in the middle of the field with his laptop computer and check the proper beam dimensions from Internet while the beam was being assembled.



We entered in the "3A" category, which means we were running up to three stations on the air at once and were a club portable station. The fine print in the rules allows a "Get-On-The-Air" (GOTA) station to be used without increasing the transmitter classification. Soon CW was being used on 20 meters using a TS-570 supplied by John, N7MFQ. Phone stations were on from a TS-450 and a TS-820. The GOTA station completed the lineup using the club's other TS-450.

CW contacts count twice as many points as phone contacts on Field Day, and the better CW operators seem to be able to work stations faster as well. This makes good CW operators a very desirable commodity. Alas, most of the ones that had contributed in past years were away on missions, moving out of town, tied up with other activities, or in a desertion mode, operating with other groups.

Our one hope was Tom Rohlfig, W7GT, who has a hard time getting through the day without a morning "CW fix," and had indicated he would be joining us Saturday. Unfortunately, Tom had a crash project underway for his employer and had to spend the weekend working.

The day was saved by Mike Baker, KA6SAR, who was in Utah on a scouting mission for the Atlanta Braves. He had seen the details of our plans on the web site and decided to drop in. Mike's CW skills were phenomenal and he quickly generated major pileups on 20 meters. His strategy for thinning out the deepest pileups was just to crank the keyer up to about 50 words per minute. The good operators could keep up and the slower ones knew they wouldn't have to wait very long.

As evening approached, The Eternal Miracle of the Forest again manifested itself. With the announcement that the Saturday dinner was available, our team of ten operators suddenly became a crowd approaching 600. Jerry Bennion, our traditional Dutch oveneer, was unable to attend this year, but Gary Openshaw, KC7AWU, took on the duties of Master Chef and provided a tasty barbecued chicken. When the many potluck contributions of others were added, the result was an outstanding camp dinner.



Dave Felgar, NJ7A, arrived about this time with the six-meter station. After a fight with a rotor that seemed to be greased with pine gum, the six-meter station went on the air and was able to take advantage of a great sporadic-E opening that went on long after dark. Since a VHF station can be operated "free," this put us on the air with five transmitters, but still in the 3A class.

Another thunderstorm came up Saturday night. It was enough to send everyone scurrying for shelter, but, by all reports, was nothing to compare to the Friday storm. The club's 5-kilowatt generator faltered a bit and Brett Sutherland, N7KGG, made a dash through the rain to diagnose the problem.

Depending on the source, the problem was attributed to an air intake that was more than happy to breathe water, or to the load of a popcorn popper originating in the president's camper.

We did a better job than last year of keeping the stations on through the night. We're not sure just who was operating 40-meter SSB just after midnight, but we received the following e-mail:



CQ CQ CQ Field day...!

CQ CQ CQ Field day...!

CQ CQ CQ Field day from W7SP...!

All this morning we could hear a very sharp but clear young voice clamoring for contesting.

The report was S3 (signal/noise ratio is 0 DB) a very weak signal but noise is zero and the voice very sharp.

There was hundred stations calling at same time but W7SP voice was outstanding over the background of hundreds CQs .

QRG = 7.254.00 KHz

The QTR was 03:15 local time or 06:15 UT.

Our environment is a quiet rural and very adequate for extreme DX listening.

We use DC power supply to avoid QRM in spite we are in a farm.

Receivers:

Eddystone E C 958 A Professional one but the other can receive also very well:

Drake R7A and Sony ICF-2010.

Antennas:

Beverage, Half Delta Loop and Long wire for 160 mts at 10 M over ground.

Congratulatuons for your station ! My QTH is correct at QRZ.Com.

QTH: Petropolis, RJ, Brazil.

Best Regards from Martin PY1 EUN,

See My Station At QRZ.Com

73' s and Good Luck,
PY1EUN.

The generator purred along through most of the rest of the event. Ron Speirs, K7RLS, who has been taking care of the generator in recent years, says there was another problem near the end of the contest on Sunday. It was *so* close to the end that it generally went unnoticed. Ron tells us the generator is again happy.

After a simple four-hour teardown procedure, a caravan of trucks, trailers, and SUV's brought most of the gear back to the Salt Lake Valley.

We made a few more contacts than last year, although we did a bit worse on bonus points -- no one originated a message to the SM. See the score tabulation below.

Thanks to all who donated time, effort, tents, equipment, food, and operating skill. We may not have had the highest score in the country, but we think a lot of people had fun and many had a first exposure to contesting and HF.

See more photos on the Field Day Photo Page, <http://www.xmission.com/~uarc/fd04phot.htm>. Many additional images from K7BLK, K7RLS, and KA7OEI are available at two picture sites: Check www.sirbryan.com/gallery/uarcfieldday2004/ and www.ussc.com/~turner/fd_2004pix.html. Anyone who has pictures or stories of other things that went on at Field Day is encouraged to send them to us.



W7SP Field Day Score Calculation			
	CW	Phone	Total
Band			
80m	47	115	162
40m	---	328	328
20m	448	51	448
15m	62	---	62
6m	---	94	94
GOTA	---	100	100
(GOTA contacts on 15-meter phone)			
Total Contacts	557	688	1245
Mode Multiplier	X 2	X 1	
Contact Points	1114	688	1802
Power Multiplier			X 2
Contact Score			3604
Bonus Points:	100% Emergency Power		300
	Media Publicity		100
	Set up in public place		100
	Information Table		100
	W1AW Bulletin		100
	Alternate Power QSOs		100
	100 QSOs on GOTA station		100
Grand Total			4504



Exam Schedule

09/11/04	(Sat.)	Logan	Heidi Black, AC7ZC	(435) 753-7487
09/15/04	(Wed.)	Provo	Steve Whitehead, NV7V	465-3983
09/15/04	(Wed.)	St. George	Ronald C. Sappington, WI7Z	(435) 673-4552
09/28/04*	(Tues.)	Salt Lake C	Eugene McWherter, N7OVT	484-6355
09/30/04	(Thu.)	Roosevelt	R Chandler Fisher, W7BYU	(435) 722-5440
10/02/04	(Sat.)	Salt Lake C	Gordon Smith, K7HFV	582-2438 534-8116
10/06/04	(Wed.)	Ogden	Mary Hazard, W7UE	430-0306
10/20/04	(Wed.)	Provo	Steve Whitehead, NV7V	465-3983
10/20/04	(Wed.)	St. George	Ronald C. Sappington, WI7Z	(435) 673-4552
10/26/04*	(Tues.)	Salt Lake C	Eugene McWherter, N7OVT	484-6355

*Only Technician elements (1 and 2) given at this session

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