



Mack Gilbert, K7HEN, speaks on towers and tower safety at the UARC Meeting on February 4th.
***Please note that the UARC Monthly meeting for May will be May 13th instead of the 1st Thursday, due to finals week at the U of U being the first week of May.

The Periodicals Postage Paid

Microvolt

March 2004

Please Send Dues to:

UARC

c/o Dick Keddington

1732 Woodside Dr #32

Holladay, Ut 84124-1624

SEND TO

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, 3666 South State Street, Salt Lake City, UT 84115-4848. Periodicals Postage Paid at Salt Lake City, Utah. POSTMASTER: Send Address changes to *The Microvolt*, c/o Dick Keddington, 1732 Woodside Dr #32, Holladay, UT 84124-1624.

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.

UARC 2004 Board

President: Glen Worthington, WA7X	272-8825
Executive VP: Roy Eichelberger, W7ROY	571-2447
Vice Pres: Gordon Smith, K7HFV	582-2438
Secretary: Dick Keddington, KD7TDZ	274-9638
Treasurer: Mark Hodgen, AC7XR	
<i>Microvolt</i> Editor: Gary Openshaw, KC7AWU	484-3407
Asst. <i>Microvolt</i> Editor: Bryan Mogensen, KD7LEA	281-1752
Program Chair: Keith Howard, KA7RLB	463-0106
Program Chair: Telvin Mills, KB6BYU	968-5089
Imm. Past Pres: Brett Sutherland, N7KG	298-5399

Committee Chairpersons and Members

"Book Lady": Fred Desmet, K17KM	485-9245
Historian: Ron Speirs, K7RLS	968-4614
Field Day Chair:	
Club Trustee: Brett Sutherland, N7KG	298-5399
Engineer: Randy Finch, K7SL	277-7135
ATV Engineer: Clint Turner, KA7OEI	566-4497
Board Liaison &	
Autopatch Engineer: Gordon Smith, K7HFV	582-2438
Provo Autopatch Host &	
ATV Engineer: Dale Jarvis, WB7FID	224-3405
Repeater Monitor:	

Contents

Prologue	2
UARC 2004 Board.....	2
QST from the Prez	3
Member of the Month	4
March's Meeting.....	4
DO U FD?	4
Tech Net: Wed. 9:00pm	5
February's Meeting: Towers.....	5
Jack Yeaman, Silent Key	5
Class for Extra License	5
ARRL January VHF Sweepstakes	6
Help Wanted: UARC NET	7
UARC Steak-Fry.....	7
Kids Roundup Contest	8
Exam Schedule.....	8

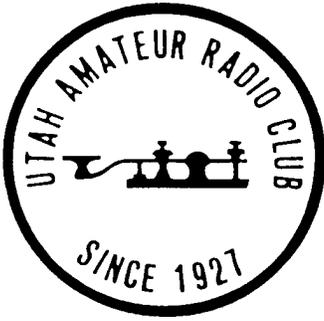
For late breaking news listen to the UARC Information Net Sundays at 21:00 on 146.62 or set your browser to:
www.xmission.com/~uarc/announce.html

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 47, Issue 10, December 2003



QST from the Prez

Glen Worthington, WA7X

There is a lot of momentum in our club and I believe we can look forward to an exciting year. The hot topic seems to be the ARRL proposal for changes that would open up more of the HF bands for a broader base of operator classes. Looking back there has always been a steady, but slow, evolution of the qualifications and privileges often affected by the international policies. I believe the ARRL is doing what is prudent to stimulate more new licensees, something we will need if we are to keep precious spectrum. I know some may be disappointed because there will be, as a percentage of new hams, some poor operators we would all not want to see in our ranks. I am not sure I would ever say that the loss of code in and of itself let a larger portion of Lids through though. We have to face the world as it is and that is with more technical awareness in general.

Here is an idea I have shared with the board to seek some focused format. To have at one of our meetings a "contest" of sorts similar to "junkyard wars" or the Food Networks "cook-off" show. We would select a couple of teams, give them a task to build something, like say maybe a small HF CW transmitter, give them a bag of parts, or let them pick some parts. Then while the audience watches draw a schematic, build and then

at a time limit demonstrate the project. Judging could be on design, efficiency, power output, and time to construct, etc. We would have a moderator and some video to both record the event and show the audience the details, All this within the time constraints of our meeting. The idea here is demonstrating the technical prowess of the teams, the practicality of building your own stuff, and the entertainment value (I would be willing to watch a pay-per-view if this was on Tech TV). Be thinking and we will probably give this event some long-term notice. It may be a good meeting for September, the month before the traditional Homebrew night. This might be one meeting to bring family and friends to show how "fun" amateur radio can be.

Last month I asked for input on amateur operators who have contributed to the club in many ways over the years. This list is in no way all who have given time, money, equipment, and support so keep the info coming. Again in no particular order:

Jerry and Verna Bennion, WR7N and N7LNL, for all the dutch oven meals (wow!), classes, projects, space for storage and time spent with our club.

Alan Seyboldt, N7OI, Club Station setup, use of filters at Field Day, time, antennas

Tom Schaefer, NY4I, Club Station setup, time at Red Cross, *Microvolt*.

Allen Wright, (SK) N7QFI, Allen has passed away but his estate donated many items to the club. His family was most gracious in making sure we received his equipment. Allen was also the one who for years monitored the 146.76 UARC repeater.

Ray Larsen, W7NMK, who for the many years was an executive at Standard Supply Company, donated many items for the club.

73 Glen, WA7X

Member of the Month

Linda Reeder, N7HVF



This month we are featuring Mark Hodgen AC7XR. Mark has been in amateur radio for 27 years and has his Extra class license. Mark was interested in amateur radio when he was a child. He used to spend hours listening to short wave radio. He had a friend in high school, Kelly Anderson, KV7V, who was already in the hobby and helped Mark get his license. Mark and Kelly were the only hams at Viewmont High, but their electronics teacher let them have an HF station at the school. Mark said Kelly had some Drake tube equipment that took up half of the front seat of the car, so Mark had to sit in the back seat when he wanted to transmit on Kelly's radio. Mark said for his home station he borrowed a Heathkit DX40 and it only had four crystals. Mark said he was one of the first who had a packet station. Back then there were so few who were into packet that they kept track and he was number 20.

Mark's principal love in amateur radio is HF. He loves to rag chew and is a CW fanatic and likes to get into some contesting. He loves making contacts, finding out what equipment others are using, and discovering things to avoid. Mark is also interested in QRP and is in the process of building an Elecraft K2. Mark has a web site at www.qsl.net/ac7xr/.

Mark and his wife Mayela have one son, Mike, who is 12 years old and has his General license. Mike's call sign is KD7UUB. Mike also loves HF and is also a CW fanatic. Their ham station now consists of a Kenwood TS570, a G5RV antenna, and the

Elecraft K2 which he is now building. Mark is hoping that his wife Mayela will have her license soon. Mark works for a computer manufacturing company as a network consultant.

Mark is a member of UARC and has been elected to be the treasurer for UARC for the year 2004. Mark is also a member of the Davis County radio club, ARES of Davis County, and ARRL.

Mark, congratulations on your new elected position. We know you will do a great job.

73, N7HVF, Linda Reeder

March's Meeting



John Lloyd, K7JL, who is the Utah Frequency Coordinator will be the featured speaker for the UARC Meeting on March 4th, 7:30 pm, in room 101 of EMCB on the University of Utah campus. John is the clearinghouse for repeater information and frequency utilization within the state of Utah for the amateur VHF, UHF, and microwave bands. John will reveal all of his secrets for assigning repeater frequencies within the state and tell how he keeps things from getting all jumbled up on the air.

DO U FD?

By Chuck Johnson, WA7JOS

Have you ever attended Field Day? Those who have look forward to the coming of summer and the biggest Amateur Radio event of the year. But many of you haven't, and you don't know what you're missing!

What is Field Day? It is an annual nation-wide event that is always held on the fourth full weekend in June. This year that's June 26-27. The actual contest starts Saturday at noon, but we can begin

setting up at noon on Friday. Many club members start showing up on Thursday and make it a FOUR-day family weekend. The purpose is to set up temporary stations and to contact as many other stations as possible in a 24-hour period.

Why do we do this? Well, it's hard to explain. Part of it is a contest, part of it is an emergency service drill, part of it is a living jigsaw puzzle, most of it is hard work, and all of it is fun! If you are an experienced operator or contester come rack up some points. If you've never operated HF or assembled a station, there is no better place to learn.

What do we do? The Field Day committee selects a site and organizes the needed equipment. We load up our station equipment and camping gear and head for the hills. We spend 24 hours setting up stations, generators and antennas, then another 24 hours calling "CQ Field Day" until we are hoarse. We make a few thousand contacts, then pack everything up again and go home exhausted but satisfied until it is time to do it again next year. Along the way we make new friends, learn a little about assembling and operating a station, enjoy some good food, and probably get sunburned.

Doesn't that sound like fun? If you've been there, you know it is, and if you haven't, don't miss out! Further details will be given as the date approaches, but now is the time to arrange your schedule so you can join the club for FD2004. In recent years, attendance has exceeded 100 people, but there is room for many more. Once you've been there, you'll be hooked for life.

Tech Net: Wed. 9:00pm

The UARC board decided to try holding a weekly Technical Discussion Net each Wednesday at 9 P.M. Our new President, Glen Worthington, WA7X, has been acting as net control. If you've wondered how a particular antenna works, need advice on how to bias the op-amp in your latest project, or want to share a recent discovery with folks who might appreciate it, this might be the net for you. Check the club's 146.62 MHz repeater. If You are interested in doing Net Control for this for this net please contact a Glen Worthington at 272-8825 or E-Mail at max@w7ax.com. Thanks.

February's Meeting: Towers



The UARC meeting held Thursday, February 5th, featured Mack Gilbert (r), K7HEN, showing how to strap a safety harness on Program Chairman, Keith Howard, KA7RLB. Mack has installed over 1000 towers. He told us of the new OSHA standards. People used to go up a tower with nothing for protection but a piece of rope and hope for the best. Mack showed some of the modern safety equipment. Thank you Mack for your presentation.

Jack Yeaman, Silent Key

With regret we note the passing of Jack Michael Yeaman, W7JSS. He was born May 8th, 1920 in Afton, Wyoming, and died Feb. 9th, 2004 at the Rocky Mountain Health Care.

Jack got his ham license just before World War II in 1940. He was a member of UARC and the VHF Society. Jack and his wife, Ruth, were married for 54 happy years. Our condolences to his wife and family.

Jack, you will surely be missed. Your ham buddies will miss hearing your positive cheerful voice on the air waves.

73, N7HVF Linda Reeder

Class for Extra License

Ron Speirs, K7RLS, together with a number of other volunteers, will be conducting an Extra Class on about March 2nd, 2004. The class is held each Tuesday evening at 7 P.M. at the church at 5000 W. Pavant Avenue (3725 South). Anyone who would like to join is welcome to do so. For more information, contact Ron Speirs, K7RLS, 968-4614.

ARRL January VHF Sweepstakes

By Bryan Mogensen KD7LEA

I have wanted to see how Ron, K7RJ, and Dale, WJ7L, 10 GHz equipment worked. So I thought what better time than during a contest? I asked Ron if he would mind if I tagged along. We met at Ron's house shortly after 8:00 AM on the 24th so that when we got to our destination we would have time to set up. We were going to Antelope Island to a new spot that Dale and Ron wanted to try.

When we arrived at the park ranger station it was incredibly white. The fog was down to the ground and the ground was snow-covered. As we started across the causeway we were noticing that the water was freezing. When we came to the island we turned south along a road that went along the east shore. It seemed we went about a quarter of the way down the island when we came to our turn off.

As we pulled off the exit we noticed that the road to the area we were trying to get to was snow-covered and fairly deep. So we decided to stay right there in the lower lot. We were doing great having arrived ahead of time and now it was time to set up antennas and masts.

Photo by Dale Heisler



I was impressed these guys knew what they were doing. Ron had plates with mast bases welded to them. They were first to go down. Then we started to assemble antennas and attach them to masts and stack them up. What a setup! These guys even had rotors.



Photo by Dale Heisler

The contest started at 12:00 noon local time and Ron said it was rare for him to be set up on time. But we were a few minutes early and we thought this would be great. So we called CQ and nothing. Try again. Still nothing. Check the radios, antennas, rotate the rotators. Still nothing. This went on for almost an hour then wham, one after the other.

I guess being late isn't that bad after all. What fun when the contacts start coming. Things were going great when we noticed that one of the other trucks that were out there by us was stuck. Stuck good! It was a truck with a big horse trailer right across the access road to get out.

Photo by Dale Heisler



While Dale and Ron were contesting I decided to get out and see if I could help. Within a few minutes Dale and Ron were out too. We tried to pull the truck and trailer out together but to no avail. They were just too heavy.

So we unhooked the trailer and with six guys pushing and jacking we managed to get it out of the

truck bed. But still couldn't get the truck out. So the park ranger went to get another truck with a fifth wheel hitch to move the trailer. Once the trailer was moved it wasn't hard to pull the truck out with mine.

Now that was out of the way it was time to break out the 10 GHz equipment. This is what I was waiting for! It didn't take them long to set this stuff up; it's great. We were talking to Charlie N7MLD on 2 meters finding out where he had set up so we could aim the feed horns.



Photo by Dale Heisler

In all I thought it was a very fun experience and would recommend it to anyone. It would be great to have more locals in the VHF and above contests. Can't wait till the June contest; hope to have my own 10 GHz gear ready to go.



Photo by Elaine Jones

Once we found him Dale made a contact, then Ron fired his rig up. Ron's was a little harder to aim because he had an offset feed dish on his so it had a much narrower beam width. But Charlie said Ron's was several S units better.

When we were through with Charlie, Dale went south on the road far enough to make another contact with Ron for the contest.

Once these contacts were made it was time to start taking down all of the antennas. By this time it was getting very cold so we worked very fast. When everything was put away it was about 5:00 PM so I thought I better get underway. Dale and Ron stayed for soup then they were ready to leave too.



Photo by Elaine Jones

Till then 73, Bryan Mogensen. KD7LEA.

Help Wanted: UARC NET

UARC needs help with the Information Net on Sunday evenings at 9:00pm. The First Sunday of each month, a Net Control Operator is needed. Someone is also needed to do Other Club Information on the Third Sunday of each month. Please call Mike Youngs, KK7VZ, 298-7282 or E-Mail him at youngs@qwest.net, and be involved.

UARC Steak-Fry

The annual UARC Steak Fry will be held on July 10th, 2004 at the Spruces -- Area 7. Be sure to plan that day on your calendar and keep it open.

Kids Roundup Contest

The Anne Arundel Radio Club, Jr. (AARC, Amateur Radio Club for Kids - KI3DS), is sponsoring a radio contest for kids. This is a contest for kids in the United States, Canada and other countries to make contact and exchange QSO information with other stations operated by kids in as many states, provinces, and DX countries as possible. The contest starts at 1400 UTC (8:00 AM MST) April 3, 2004 and ends 2200 (4:00 PM MST) April 4, 2004. This is a phone-only contest utilizing the 80 through 2-m bands (excluding WARC bands). This is an opportunity to invite kids (licensed or unlicensed) to come into your shack for a kid friendly event without all of the

pressures of other contest. This is an opportunity for the new or unlicensed youth to operate your radio and give them a taste of getting on the HF bands and experience some DX. The purpose of this contest is to have fun and promote amateur radio among youth. The concept is relatively simple: Kids get on the air and make contacts with other kids and adults. Contacts with kids are more valuable than contacts with adults. We envision and encourage a little rag chewing as an integral part of the contest. For more information please visit the Anne Arundel Radio Club, Jr. website at: <http://www.qsl.net/ki3ds/kidsroundup.htm#Kids%20Roundup>

73

Telvin

KB6BYU

Exam Schedule

02/24/04*	(Tues.)	Salt Lake C.	Eugene McWherter, N7OVT	484-6355
03/03/04	(Wed.)	Farmington	Fred Villanueva, N7FV	295-6560
03/13/03	(Sat.)	Tremonton	Robert A. Anderson, AA7TR	(435) 257-2154
03/17/04	(Wed.)	Provo	Steve Whitehead, NV7V	465-3983
03/17/04	(Wed.)	St. George	Ronald C. Sappington, WI7Z	(435) 673-4552
03/25/04	(Thu.)	Roosevelt	R Chandler Fisher, W7BYU	(435) 722-5440
03/30/04*	(Tues.)	Roosevelt	Eugene McWherter, N7OVT	484-6355
04/03/04	(Sat.)	Salt Lake C.	Gordon Smith, K7HFV	582-2438

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

Communications products Amateur Radio Sales

7946 S. State St., Midvale, UT
801-567-9944

Open Weekdays 10-6
Wednesday 10-7
Saturday 9-5

Come See the New ICOMs
Featuring Their
Amateur/Receiver
Lines Now On Display

<http://www.commproducts.net>

Bob Wood, W7OAD
UARC Member