



Which is John Lloyd? After John was called out of town, Clint Turner, KA7OEI, graciously stepped in at March's UARC Meeting. \*\*\*Please note that the UARC Monthly meeting for May will be May 13<sup>th</sup> instead of the 1<sup>st</sup> Thursday, due to finals week at the U of U being the first week of May.

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# Microvolt

APRIL 2004

Please Send Dues to:

**SEND TO**

UARC

c/o Dick Keddington

1732 Woodside Dr #32

Holladay, Ut 84124-1624

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](mailto: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
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Program Chair: Telvin Mills, KB6BYU	968-5089
Imm. Past Pres: Brett Sutherland, N7KG	298-5399

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"Book Lady": Fred Desmet, K17KM	485-9245
Historian: Ron Speirs, K7RLS	968-4614
Field Day Chair: Lonnie Oaks, K7LU	255-1225
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:	

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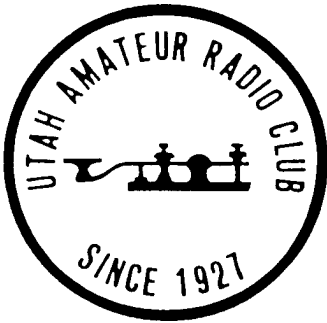
For late breaking news listen to the UARC Information Net Sundays at 21:00 on 146.62 or set your browser to:  
[www.xmission.com/~uarc/announce.html](http://www.xmission.com/~uarc/announce.html)

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 4, April, 2004.



### **QST from the Prez**

**Glen Worthington, WA7X**

Last month I listed names of many who have contributed so much to our club over the years and have a few more to mention. Linda Reeder N7HVF, for taming the Club

Hot line, calling and reminding us of many duties and activities, past club program manger. Clint Turner KA7OEI, ATV repeater engineer, technical consultant, generator fixer. Ron Speirs K7RLS, photographer, current historian, class teacher. Any more please email me with their names and contributions.

Well I don't know about you, but John Lloyd, K7JL has pulled another rabbit out of the hat by doing his second UARC presentation from over 300 miles away, this time from Boise, last from Chicago a couple of years ago. Of course with some great help from Clint Turner, KA7OEI who did the "live" parts. I have heard lots of compliments from the attendees and the Frequency Coordinator presentation was a classic!

Just a reminder that the Idaho folks are having a Ham Fest in Idaho Falls on April 17, 2004. Check <http://myweb.cableone.net/wa4vrv/hamfest.htm> for more details.

Thanks for the collective efforts of KA7OEI, K7HFV and K7SL for getting the 146.62 back up to full power. I know I appreciate being able to hear it in my basement on a dummy load again.

Look forward to seeing you on April Fools day at the UARC meeting.

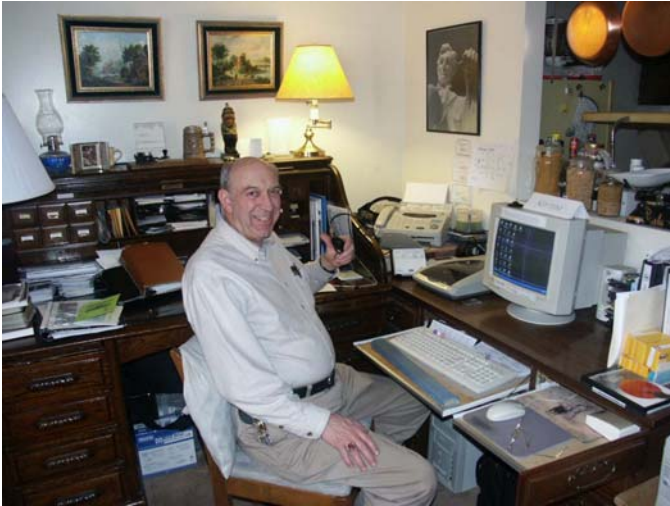
73  
Glen  
WA7X

### **Alvino Rey, Silent Key**

Musical pioneer Alvino Rey, W6UK, SK: Alvino Rey, W6UK, of Sandy, Utah, died February 24. He was 95 and had been in failing health. An ARRL member, Rey was a well-known musician for several decades and was considered "the father of the pedal steel guitar." Born Alvin McBurney in California and raised in Cleveland, Rey was an inveterate tinkerer who gained a reputation both as a musician, and an electronics whiz who got his ham ticket at an early age. During the Big Band era he was a star of the Horace Heidt and his Musical Knights and later formed his own ensemble. The Alvino Rey Orchestra's biggest hit, "Deep in the Heart of Texas," came in 1942, but his trademark was novelty music and creating new sounds. At one point during World War II, however, he found himself out of the music business and working as a mechanic in an aircraft factory. He subsequently joined the US Navy and led a service band. Rey and his orchestra were featured during the 1960s' "The King Family Show" on TV, and he was married to Louise King, who died in 1997. An active amateur, Rey and his "talking guitar" performed at more than one ARRL Southwestern Division convention in past decades. "He was great and a lot of fun as well as a long-time League member," recalled ARRL Honorary Vice President and former Southwestern Division Director Fried Heyn, WA6WZO, who also remembers hearing Rey talking to his friends on HF.

## Member of the Month

Linda Reeder, N7HVF



This month we are featuring Dick Keddington, KD7TDZ. Dick has been licensed since October, 2002. He has his Technician license and is working hard on getting his General. Dick got interested in amateur radio when he was involved with the emergency preparedness program in his ward. Dick is very active in emergency programs. Dick is a member of AVERT which stands for The Association of Volunteers for Emergency Response Team. He is the chairman of the board of directors of AVERT. Dick is also director of emergency preparedness in his stake. Dick is also very active in the CERT program.



Dick says amateur radio is a very enjoyable hobby. The thing that he likes best is the people he has met. Dick says he can't find a finer group of people anywhere.

Dick is a member of UARC. Dick enjoyed using the repeaters so much so he decided he better join the

club. Dick was elected Secretary of UARC for the year of 2004. Dick says he really enjoys being the secretary. Dick is also a member of the VHF Society and the ARRL.

Dick has retired from the Air Force Services. He was active in the reserves for 28 years. He was the hospital administrator. Dick now works for the "7-11" Company at one of their stores. Dick has five children: one girl and four boys. They are all grown now. He has seven grand children.

Dick enjoys music. He likes all kinds of music, but mostly classical and jazz. Dick also enjoys choral groups. Dick congratulations on your new elected position. We really appreciate all of your hard work. 73, N7HVF, Linda Reeder

## April's Meeting: Latest Equipment

If there's one thing practically all hams seem to be interested in, it's the latest equipment, complete with lots of controls, readouts, and multicolored indicators. Our next UARC meeting will present a chance to see a sampling of what's hot at one of ham radio equipment dealers. The April meeting, to be held on April 1, will feature Tom Allen, W7TAA, from Amateur Electronic Supply (AES) in Las Vegas (Web site is at <http://www.aesham.com/>.)

Tom has worked for AES for 19 years. He was first licensed in 1984 and currently holds a General License. He is past Vice President and served two terms as President of the Las Vegas Amateur Radio Club. Some of his ham radio interests include 2-meter bicycle mobile and geocaching. He also supports local ham radio clubs with product demonstrations, communications for local events, and enjoys Field Day. He has been married for 30 years, and has two grown sons. In his leisure time he enjoys hiking, biking, softball and most anything outdoors except snow.

Tom will have some of the latest gear to show and also tell us about how the products have been received by AES's customers.

Tickets to UARC's annual steak-fry will go on sale at the April meeting. The steak-fry date is Saturday,

July 10. The event will be held at "The Spruces" campground in Big Cottonwood Canyon. The April meeting will be the first of only three chances to buy tickets at a club meeting.

That's Thursday, April 1, at 7:30 P.M. in room 101 of EMCB on the University of Utah campus.

Of course there will be the "standard" features of monthly meetings as well:

- Availability of ARRL books from Fred, the "book lady";
- An opportunity to join UARC or renew your membership
- The chance to meet face-to-face the people you talk to on the air
- The "Meeting(s) after the meeting": A chance to enjoy pizza or other gastronomic delights with other hams. One group goes to Litza's Pizza, 716 E. 400 South. Another goes to a restaurant that varies from month to month, but will be announced at the meeting.

## **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.

## **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.

## **VHF Society Lowers Dues**

The Utah VHF Society held its annual business meeting and swap meet on Saturday, February 21, and made at least one decision that may affect VHF amateurs throughout the state.

All of the 2003 officers were reelected for 2004. The list includes:

President: Mel Parkes, AC7CP  
Vice-President: Don Blanchard, WA7GTU  
Secretary: John Mabey, W7CWK  
Treasurer: Danny Fullerton, KC7RUF  
Frequency Coordinator: John Lloyd, K7JL

The membership voted to release two two-meter frequency pairs, 144.57/145.17 and 144.59/145.19, for voice repeater use. These had previously been reserved for packet radio use, either as simplex frequencies or for full-duplex packet repeaters. Input is solicited from anyone who knows of ongoing use of these frequencies or of the pairs with outputs on 145.11, 145.13, and 145.15, possible candidates for later refarming.

In other action, it was voted to reduce annual VHF Society dues from \$15 to \$12. Also, the membership agreed that the dues would no longer be written into the bylaws. Instead, the bylaws were amended to allow the setting of dues, as needed, by a vote of the membership.

The Utah VHF Society supports repeaters throughout the state of Utah and also is the frequency coordination body for the state.

UVHFS memberships run for the calendar year, so many memberships expired on January 1, 2004. Information on how to join or renew is found on the Society's web site at [www.ussc.com/~uvhfs/](http://www.ussc.com/~uvhfs/).

## **UARC Steak-Fry**

The annual UARC Steak Fry will be held on July 10<sup>th</sup>, 2004 at the Spruces -- Area 7. Be sure to plan that day on your calendar and keep it open. Steak Fry tickets may be purchased at the next UARC Meeting. Prices are \$3.00 for members, \$4.00 for Children, \$10.00 for non-members and guests.

## **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

## **02/26/04 "62" Power Amplifier Back in Service**

On Saturday, February 7, Brett, N7KG, and the author, K7HFV, went over to KA7OEI's house and pretended to supervise while Clint changed all three transistors in the power amplifier's RF chain. We thought that running a little less output power might give us better life from the finals. The amplifier is rated at 100 watts but we had been running it closer to 130 watts output. We found a tuning compromise that gave us good efficiency and good balance between the two final transistors as well as output power near the rated value. The only remaining problem was finding a way to get the amplifier back on the mountain.

On Monday, February 23, Randy, K7SL, our Repeater Engineer, found a ride for the box and several handoffs were made. On Thursday, the 26th, the repeater went back on the air at full power. Readings at US Satellite showed a received signal level of -58 dBm after the change compared to -74 before. If we assume the amplifier is now putting out 105 watts (which is close to the measurement made on the 7th with the amplifier on the bench), that would put the exciter power (the output level we had been running for about the last month) at 2.6 watts.

We can't help commenting that we hear a lot of operators say "power doesn't matter," but there sure were a lot of complaints when the power was down. The repeater had been running a power level comparable to a handie-talkie, so this should have given H-T users a chance to hear what they sound like at the repeater from various locations.

## **Field Day Chairman Announced**

Lonnie Oaks, K7LO, has graciously accepted to be Field Day Chairman for UARC. Field Day for this year will be June 26<sup>th</sup> and June 27<sup>th</sup>. Much help is needed to make a UARC Field Day a success. Lonnie will need the aid of many Ham Radio Operators for loading the equipment up, getting the equipment to the field day site, setting the equipment up, making sure the equipment works, operating the equipment, taking the equipment down, getting the equipment back, various other responsibilities including making sure everyone who comes enjoys themselves.

Field Day is a time to learn how to use, build, improvise, install, have a great time, etc. etc. with Ham Radio equipment. If you have never been involved in a Field Day, you need to be involved in this year's Field Day with UARC. Please contact Lonnie or a member of the UARC Board for more information or volunteering. Thank You.

## Things To Bring To Test Session

- Two forms of ID
- \$12.00 -- Cash or Check
- The original and a copy of your current license (if you currently hold an amateur license)
- The originals and photocopies of any Certificates of Successful Completion (CSCE's) you may hold. (These are only necessary if they give you credit for elements beyond those required for your current license and are less than one year old.) Also, if you claim credit for a license held in the past (for example, Element 3 credit for a Technician license issued prior to March 21, 1987), then you must bring either a photocopy of that license or a certification from the FCC that you held such a license.
- A filled-out NCVEC (not FCC) form 605 (This is optional -- forms will be available at most test sessions.)
- Pencils and pens.
- A calculator (Optional -- but if it is programmable you must show that the program memory is cleared.)
- You may use a typewriter, braillewriter, or laptop computer only if you make arrangements in advance

## Finding Out Your New Call

In December of 1994 the FCC adopted new rules that allow a newly licensed operator to get on the air as soon as a call sign has been issued. Previously, a new licensee could not operate until his printed license arrived by mail. If you have recently passed the test for a new license or an upgrade, you can find out your new call sign and start operating as soon as it has been issued. Start checking about five days after the exam session. Here are ways to check:

1. Call the FCC at (888) 225-5322.
2. Call the ARRL at (860) 594-0300 between 6 a.m. and 6 p.m. Mountain time.
3. Check the FCC's Universal Licensing System (ULS) database at

<http://wireless.fcc.gov/uls> and follow the "search license" link. Select "By Licensee Name" in the pull down for the type of search. Enter your last name, a comma, and your first name. This site is a bit more trouble to use than other sites on the World Wide Web, but it will show the results sooner than the others after an application is granted.

4. Check the call sign server (see below) maintained by the University of Arkansas at Littlerock and search using your name and state. If you include your middle initial, do not include a period.  
<http://www.ualr.edu/~hamradio/>
5. Check the call sign database (see below) maintained by the publishers of the "QRZ" CD-ROM. In the portion of the form for "First Name", be sure to enter your first name and middle initial exactly as they were entered on your application form, but with no period. For example "JOHN B" would be a typical entry.  
<http://www.qrz.com/i/names.html>

## VE's Needed

Are you a Volunteer Examiner? Volunteer Examiners help out at test sessions to make sure Ham Radio testing is held, conducted and graded according to the FCC Regulations. It is a great way to help out and give something back to Amateur Radio. Please contact those people who are in charge of giving tests and see what it takes to become a VE, or see if they could use help at the test sessions. Thank You.

## Editor's Note

As you will note two items about this month's issue of the *Microvolt*. It is requesting help many times in this article for Field Day, Nets, VE's, etc. Amateur Radio and Amateur Radio Clubs survive because of what volunteers make it. Please get involved and you will learn more, meet new people, and you might feel better about serving and giving while you are receiving.

The other item is about contributing information or an article to the *Microvolt*. You may call, E-Mail, or talk to Gary Openshaw, KC7AWU, to submit something to this year's *Microvolt*. Thank You.

## Exam Schedule

04/03/04	(Sat.)	Salt Lake C	Gordon Smith, K7HFV	582-2438	534-8116
04/14/04	(Wed.)	St. George	Ronald C. Sappington, WI7Z	(435) 673-4552	
04/21/04	(Wed.)	Provo	Steve Whitehead, NV7V	465-3983	
04/27/04*	(Tues.)	Salt Lake C	Eugene McWherter, N7OVT	484-6355	
05/19/04	(Wed.)	Provo	Steve Whitehead, NV7V	465-3983	
05/19/04	(Wed.)	St. George	Ronald C. Sappington, WI7Z	(435) 673-4552	
05/25/04*	(Tues.)	Salt Lake C	Eugene McWherter, N7OVT	484-6355	
05/27/04	(Thu.)	Roosevelt	R Chandler Fisher, W7BYU	(435) 722-5440	
06/02/04	(Wed.)	Ogden	Mary Hazard, W7UE	430-0306	
06/05/04	(Sat.)	Salt Lake C	Gordon Smith, K7HFV	582-2438	534-8116
06/12/04	(Sat.)	Logan	Heidi Black, AC7ZC	(435) 753-7487	
06/16/04	(Wed.)	Provo	Steve Whitehead, NV7V	465-3983	
06/16/04	(Wed.)	St. George	Ronald C. Sappington, WI7Z	(435) 673-4552	
06/29/04*	(Tues.)	Salt Lake C	Eugene McWherter, N7OVT	484-6355	

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

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**Bob Wood, W7OAD  
UARC Member**