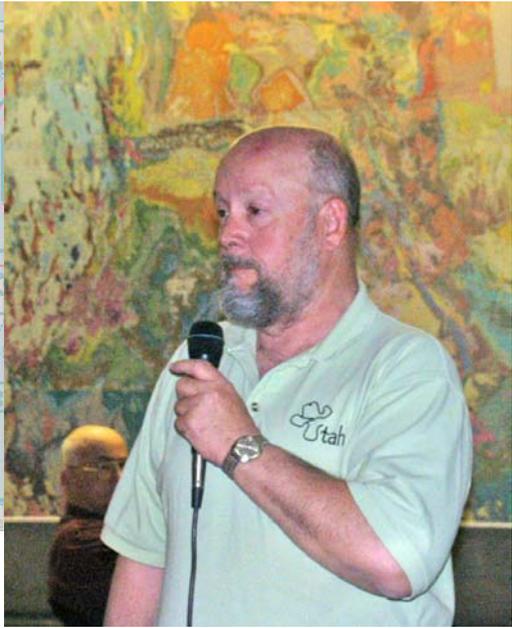
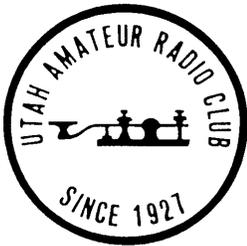


**HF 101**  
**30,000 kHz and Down**  
 Communications Academy 2007  
 Ward Silver - NØAX  
 Stan - K7JIZ



For the April meeting we had Stan, K7JIZ, present to us how to use the HF frequencies allocated to us. What to do and what not to do. What kind of radios and antennas you need to operate on the HF band. The entire Powerpoint presentation can be downloaded from the ARRL web site. Search for HF 101.

**May Meeting Topic: Crystal Radio**



Volume 50, Issue 5, May 2007

Periodicals Postage Paid

The  
**Microvolt**

**DATED MATERIAL – PLEASE DO NOT DELAY**

Please Send Dues to:  
 UARC  
 c/o Dick Keddington  
 1933 Woodside Drive  
 Holladay, UT 84124-1632

**SEND TO**

The Microvolt (USPS 075-430) is published monthly except August for \$17.00 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, Dick Keddington, 1933 Woodside Drive, Holladay, UT 84124-1632.

## 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 103.

**Membership:** Club membership is open to anyone interested in amateur radio; a current license is not required. Dues are \$17 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 \$17 may obtain a membership without a *Microvolt* subscription for \$9. Send dues to the Club Secretary: Dick Keddington, KD7TDZ, 1933 Woodside Drive, Holladay, UT 84124-1632. ARRL membership renewals should specify ARRL Club #1602.

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

**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 for Provo which are currently disabled due to abuse and for Salt Lake which is in need of reworking to be compatible with IRLP

**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 (uarc@xmission.com), but other means including diskettes and typewritten submissions can be mailed directly to: Telvin Mills, 6864 Beargrass Rd., West Jordan, UT 84084. 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, 1933 Woodside Drive, Holladay, UT, 84124-1632.

## UARC 2007 Board

President: John Brewer, N7MFQ	(435) 837-5646
Executive: VP: John Hays , K7VE	446-1899
Vice Pres: Gordon Smith, K7HFV	582-2438
Secretary: Dick Keddington, KD7TDZ	274-9638
Treasurer: Chuck Johnson, WA7JOS	268-0153
<i>Microvolt</i> Editor: Telvin Mills, KB6BYU	968-5089
Asst. <i>Microvolt</i> Editor: Bob Rollins, WB7DPA	942-2638
Program Chair: Dale Heisler, WJ7L	278-6458
Program Chair: Linda Reeder, N7HVF	364-7006
Imm. Past Pres: Roy Eichelberger, W7ROY	571-2447

## Committee Chairpersons and Members

"Book Lady": Fred Desmet, KI7KM	485-9245
Historian: Ron Speirs, K7RLS	968-4614
Field Day Chair: Andrew Madsen, AC7CF	466-0744
Steak Fry Chair: Jed Petrovich, AD7KG	566-6277
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

## IRLP Information

For information on using the club's IRLP node on the 146.76 repeater, check <http://www.utaharc.org/irlp>.

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 this Web-Page service.

For account information go to:  
<http://www.xmission.com/>  
Or call 801 539-0852





## 7QP QSO Party

The second running of the 7th Call Area QSO Party (7QP) has been scheduled for the first weekend of May, 2007. Building on the success of last year's event, the founders believe that the eight states of the 7th Call Area will again offer a fun and challenging operating event.

One of the founders of The Great Armadillo Runs (1983-86), Tom Taormina, K5RC, is chairing the Steering Committee. Hams from each of the 7th Call Area states have agreed to be State Captains and Lieutenants.

Central Oregon DX Club is the sponsoring organization for the 7QP. We also acknowledge the outstanding support that has been offered and provided by members of CADXA, SDXA, NACHO, CODXC, UDXA, WWDXC, RTKCC, NCCC and FOC, among others, to make this event a great success.

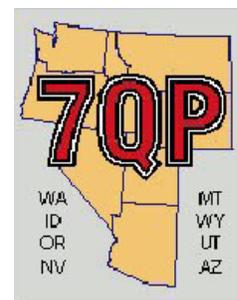
Our objective is to activate all 259 Counties. That goal will require a combination of fixed stations, mobiles, expeditions and county-line portables. There is a lot of "wide open space" in the 7th Call Area that will challenge the State Coordinators. We are looking for support from local radio clubs to make 7QP a success and a fun club project. There is an informative and entertaining Power Point presentation available to help stimulate interest in 7QP. State Coordinators and Lieutenants will make every effort to visit as many local clubs as possible over the next few months. Club program chairs may also request a copy of the Power Point from their State Captains. Chairman K5RC also is available to help with ideas that have worked in the past to encourage local participation, intra-club competitions and fun portable operations.

We need lots of volunteers to activate all 259 counties. Let us know your plans -- click the Planned Operations tab above. Contact your State Coordinator or Lieutenant with questions or suggestions.

We have also scheduled the 7QP to compliment the MARAC CW County Hunter's Contest, New England QSO Party and a number of other operating events that use counties as a multiplier. We have made every attempt to make the rules and exchange compatible with the other events of that weekend. We encourage feedback from participants and computer logging designers to ensure that each event maximizes participation by having complimentary contests. Please direct any questions about the rules/exchange to Dick, K4XU@arrl.net.

### Inside this issue:

Prologue.....	2
UARC 2007 Board.....	2
7QP QSO Party.....	3
Member of the Month.....	4
National Fox Hunt Weekend.....	5
Microwave Group.....	5
Tailgate Swap Meet.....	6
Steak Fry.....	6
February Meeting— ARRL Section News.....	8
Exam Schedule.....	8



### Special points of interest:

- ◆ *Next UARC Meeting May 10th—Crystal Radio*
- ◆ *FCC Drops Morse Code*
- ◆ *Field Day June 23, 24 at Payson Lakes*
- ◆ *Steak Fry, July 14th at the Spruces Camp-ground*



## Member of the Month

This month we are featuring Rob Findlay, KE7MBU. Rob is a brand new ham. He passed the Technician test on Wednesday, March 21 and his call sign was in the data base on Monday, March 26. Rob has been around Amateur Radio all of his life. Rob's father was an electronic engineer and had his Extra class license. His Dad's call sign was W6NZX. Rob's dad became a silent key in 1996. Rob plans on getting a vanity call and obtaining his father's call sign.

Rob grew up in San Diego, California, but was born in Salt Lake City, Utah. KSL had offered Rob's father a job as a broadcast engineer. So he moved to Salt Lake City, Utah and that is where Rob's father met his wife. Shortly after Rob was born his father got another job offer back in San Diego, California, so that is where Rob grew up.

Rob's best friend, Bob Johnson, KC6VDX, has his Technician license and he has tried very hard to get Rob into the hobby. Even Rob's dentist Jim McCook, W6YA, has his Extra class license and he tried to get Rob interested in the hobby. Rob didn't get along very well with his father while growing up and he didn't like the idea of

having to learn the Morse Code. Then Rob got busy getting an education and raising a family.

Rob was married and has one daughter. Now his former wife and his daughter live in Scotland.

Rob works for Unisys on the computer help desk. When employees have computer problems he is there to fix it. This is where Rob met Bruce Bergen, KI7OM. Rob was impressed with the QSL cards that Bruce had in his office. Bruce handed him a QST magazine and showed him the article that the Morse Code is no longer required. Rob got excited and decided to go for it. Bruce helped Rob to get the books he needed. Rob studied the Gordon West book, the ARRL Technician License Manual and practiced taking the test on QRZ. Rob said the three books complement each other nicely. Rob was so enthusiastic he started writing on the UARC reflector and got all kinds of advice on radios and antennas. He was impressed how



friendly and helpful the hams are. Rob really appreciates Scott Thomson, K7DXZ for being there for him and helping him with antennas.

Rob is a member of UARC. Rob has some of his father's old equipment. He has an HTX100 which is 10 meters only. He wants to get a wire antenna so that he can get on 10 meters. He really wants 10 meters to hurry and open up. Rob has an Icom IC280 two-meter only radio, a Kenwood TH-K2AT handheld radio and an Icom IC48A, 70-centimeter only. He is hoping to get an Icom IC718 for the low bands. Rob wants to get his General license so he can do some DXing. He plans on doing that this summer. But for right now he wants to concentrate on getting on IRLP so he can talk to his

## Member of the Month (cont'd)

best friend Bob Johnson, KC6VDX, and the dentist Jim McCook, W6YA. They are so excited that Rob finally has his ham license.

Rob has a web site link [robfindlay.org](http://robfindlay.org). On this web site Rob has three recordings that his father has made. One of them is Oscar 6. The other 2 recordings are other stations Rob's father has

worked, both CW and voice. Who knows; Rob might do some playing around with CW. Rob told me about a machine. It is a multipsk and if the levels are set just right you can type in English what you want to say and it turns in to Morse code. How about that!

Rob has quite a collection of QSL cards that his father

has had dating back to 1952. His father has even talked with Joe Seinnmet whose daughter is a famous writer.

Rob, We wish you the best in all of your endeavors especially upgrading to General.

73, Linda Reeder, N7HVF

## National Fox Hunt Weekend

Saturday and Sunday, May 12th and 13th is "National Fox Hunt Weekend".

<http://members.aol.com/joek0ov/nfw.html>

To honor this long-standing ham activity, there will be a hidden transmitter in the Salt Lake Valley operating on 146.56 MHz from Friday afternoon until at least Sun-

day night. There is no contest and there are no rules except you keep the location to yourself so that others may enjoy the hunt.

Be prepared to locate a "Baby Fox" on foot after you find the "Daddy Fox". This is just a fun thing to do with your family. There will be an informal get together on the

146.62 repeater following the usual Sunday night UARC net which starts at 09:00 PM (2100 MDT). Good luck and good hunting.

Enjoy, Larry Jacobs –  
WA7ZBO  
801-599-4433  
[wa7zbo@yahoo.net](mailto:wa7zbo@yahoo.net)

## Microwave Group

The very loosely organized microwave special interest group has moved the time for their regular breakfast. For everyone interested in the microwave bands, we will be getting together for breakfast on the first Saturday of every odd month (Jan, Mar, May, Jul, Sep, Nov) at 8:30 AM at the Marie Callender restaurant on the NE corner of 39th S. 11th E.

Our previous schedule conflicted with the UARC test sessions. Also, a few months ago we moved from the Marie Callender on Foothill to the one listed above.

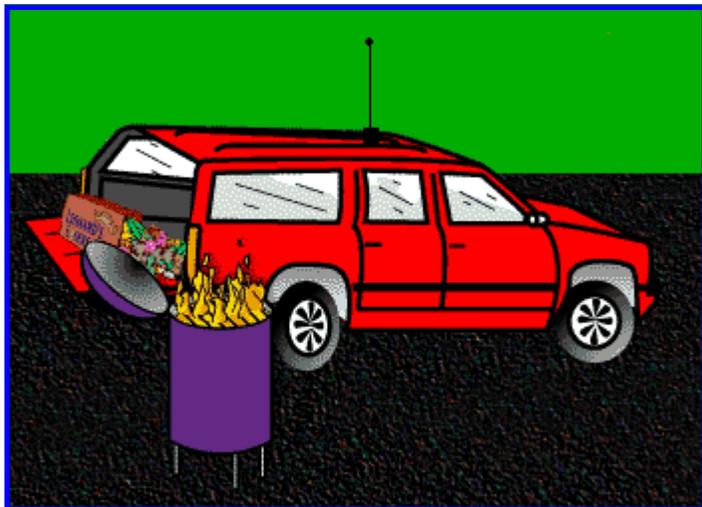
If you have an interest in the microwave bands please join us for breakfast. Usually someone brings along some show and tell gear. We often set something up in the parking lot after break-

fast. We discuss plans for on air activities. It is very low key and everyone is welcome.

If you can't make the breakfast, microwave is a frequent topic on the 2-meter sideband net on Mondays at 9:00 PM on 144.250 USB.

Hope to see you in a couple of weeks.  
73, Ron K7RJ

## Tailgate Swapmeet



The meeting before the meeting will be a tailgate swap meet in the north parking lot of the Merrill Engineering Building, (MEB). If you come before 6 PM, you will need to park in one of the 18 metered stalls on the south face of the MEB (engineering) lot. They may be available before 6 PM, but there is no guarantee

The University will not let you park in the parking lot without receiving a citation prior to 6 PM unless you have a U of U parking sticker or are parked in one of the metered stalls. They patrol heavily

during the 5-6 PM hour as that proves to be a heavy revenue hour for them. So, go ahead with the swap meet/tailgate party, but before 6 PM don't park in unmetered spaces. If you plan to arrive at 6 PM, there should be no problem. That gives you an hour and a half before the meeting starts at 7:30 PM to browse at all of the goodies.

Dale, WJ7L

## Steak Fry

During March the UARC Board asked the membership to consider several options for financing the annual steak-fry. Those who voted on the web and at the April meeting were overwhelmingly in favor of simply raising the price of the tickets high enough to cover the costs. The secretary can now take reservations for this year's event.

UARC's annual steak-fry will take place on Saturday afternoon, July 14, at the Spruces Campground in Big Cottonwood Canyon. This annual event takes the place of a July meeting and includes a mini swap-meet and a full steak dinner. Prices are as follows:

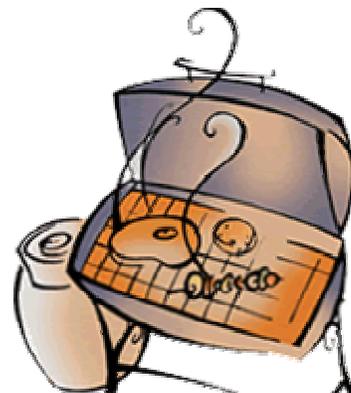
Adults \$14.00

Children (hamburger dinner) \$5:00

To make reservations, get funds to the Secretary at the May or June meeting, or by mail at:

UARC  
c/o Dick Keddington  
1933 Woodside Drive  
Holladay, UT 84124-1632

Those who are PayPal members may address payment to [uarc@xmission.com](mailto:uarc@xmission.com).



# Amateur Radio Word Search



H R O T A R B I L A C G E N E R A L K E N W O O D L X  
 C E D S E C N A T C U D N I M B A L A N C E C U U A E  
 T T I T A R H T X W I R E T E M T L O V I O P E S I L  
 O A E B T W E P L I E R S Y O T N I O J M L Q R E X P  
 N E L R Q N T H M M A U T O P A T C H P E D N A A A M  
 Z H E O U O E O P D E C N A L A B N U X I F T W Y O I  
 D D C A A R R N O S B B F I I D R T I D M B Q M O C S  
 N A T D R T O E S T O A G V E A E E I N F R A R E D I  
 Y O R C T U D T T U H N E W D R F R P E V I T I S O P  
 R L I A Z E Y I N E M D O I O R E V I E C E R F J W N  
 J R C S F N N C O E P W O I H C T B C N A H R A G O O  
 H E H T I O E S N C Z I L C T I E G H B G T D T I P C  
 A V A D E V N T L A Q D G O A A N W A T T M E T E R I  
 N O I G G J E A I F G T R I C I L L R M W X C R S R L  
 T E R M I N A L N R W H N O D O U U T N P E I A N T I  
 E L P K C A B D E E F G N L V N T Z G O J O B G E U S  
 N U I I T S T N A T C A E R E D L O S E D X E C C K C  
 N G N I M M A H R N U I A M A T E U R I R Y L H I U E  
 A Z I M U T H E Z I H L A T I B R O C P Z N S E L B X  
 O W S U O I R U P S E G A K A E L A C I T P O W D D D  
 G N I D A F T E K C A P M U U C A V M E D O M V G P I

- |            |            |            |            |            |
|------------|------------|------------|------------|------------|
| Alignment  | Desolder   | Imbalance  | Notch      | Rejection  |
| Amateur    | Deviation  | Inductance | Optical    | Repeater   |
| Antenna    | Dielectric | Infrared   | Orbital    | Sawtooth   |
| Attenuator | Digipeter  | Interface  | Overload   | Shielding  |
| Autopatch  | Director   | Inverter   | Packet     | Silicon    |
| Azimuth    | Downlink   | Ionosphere | Periodic   | Simplex    |
| Balun      | Duplex     | Join       | Phonetics  | Soldering  |
| Bandwidth  | Exposure   | Kenwood    | Pliers     | Spurious   |
| Beacon     | Fading     | Leakage    | Positive   | Television |
| Bipolar    | Feedback   | License    | Protocol   | Terminal   |
| Broadcast  | Firmware   | Linear     | Quartz     | Unbalanced |
| Calibrator | General    | Modem      | Radio      | Vacuum     |
| Cathode    | Hairpin    | Moonbounce | Ragchew    | Voltmeter  |
| Coaxial    | Hamming    | Nanofarad  | Reactants  | Wattmeter  |
| Computer   | Heater     | Neutron    | Receiver   | Wire       |
| Decibels   | Heterodyne | Nonlinear  | Regulation | Yaesu      |

## **May Meeting: Crystal Radio**

### **Thursday, May 10th, 7:30 PM, Room #103**

Our May meeting will take place on May 10, the second Thursday of the month. The speaker will be Bruce Kizerian, KK7ZZ, who will be telling us about the current state of the art in building crystal sets, one of the oldest kinds of radio receiver. The younger generation might not realize that it's possible to receive broadcast stations without either line power or batteries.

These days it's possible to make crystal sets perform better than some of us might remember them doing. Bruce will be telling us about the current state of the art. He also thinks crystal sets are a great way for young folks to start an interest in radio and electronics. To help promote this interest, Bruce is prepared to give away solderless crystal set kits to anyone at the meeting who is between the ages of 8 and 18. This would be a great meeting to bring your kids and/or grandkids to.

That will be on Thursday, May 10, 2007, at the usual time and place. (We are currently meeting in room 103 instead of the traditional 101.)

Of course, the meeting will include the "standard" meeting features:

- Availability of ARRL books from Fred, the "book lady".
- An opportunity to join UARC or renew your membership.
- An opportunity to join ARRL 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 group goes to a restaurant that varies from month to month, but will be announced at the meeting. The meeting before the meeting will be held at the U of U north parking lot of the Merrill Engineering Building.

## **Exam Schedule**

05/16/07 (Wed.) Provo  
Contact: Steve Whitehead, NV7V  
Phone: (801) 465-3983

05/16/07 (Wed.) St. George  
Contact: Ron C. Sappington, WI7Z  
Phone: (435) 673-4552

05/17/07 (Thu.) Roosevelt  
Contact: R chandler Fisher, W7BYU  
Phone: (435) 722-5440

05/29/07 (Tues.) Salt Lake City  
Contact: Eugene McWherter, N7OVT  
Phone: (801) 541-1871

06/02/07<sup>1</sup> (Sat.) Salt Lake City  
Contact: Gordon Smith, K7HFV  
Phone: (801) 582-2438

06/06/07 (Wed.) Ogden  
Contact: Mary Hazard, W7UE  
Phone: (801) 430-0306

06/20/07 (Sat.) Logan  
Contact: Roberta M. Lofthouse, KJ7LQ  
Phone: (435) 245-6632

06/20/07 (Wed.) St. George  
Contact: Ron C. Sappington, WI7Z  
Phone: (435) 673-4552

06/26/07 (Tues.) Salt Lake City  
Contact: Eugene McWherter, N7OVT  
Phone: (801) 541-1871

07/11/07 (Wed.) Farmington  
Contact: Mike Youngs, KK7VZ  
Phone: (801) 573-3922

07/18/07 (Wed.) Provo  
Contact: Steve Whitehead, NV7V  
Phone: (801) 465-3983

07/18/07 (Wed.) St. George  
Contact: Ron C. Sappington, WI7Z  
Phone: (435) 673-4552

07/21/07 (Thu.) Roosevelt  
Contact: R chandler Fisher, W7BYU  
Phone: (435) 722-5440

07/24/07 (Tues.) Salt Lake City  
Contact: Eugene McWherter, N7OVT  
Phone: (801) 541-1871

<sup>1</sup> Pre-registration required. Contact the contact person prior to the examination date.

For more detail either call the contact or checkout the information on our web-page:

<http://www.xmission.com/~uarc>