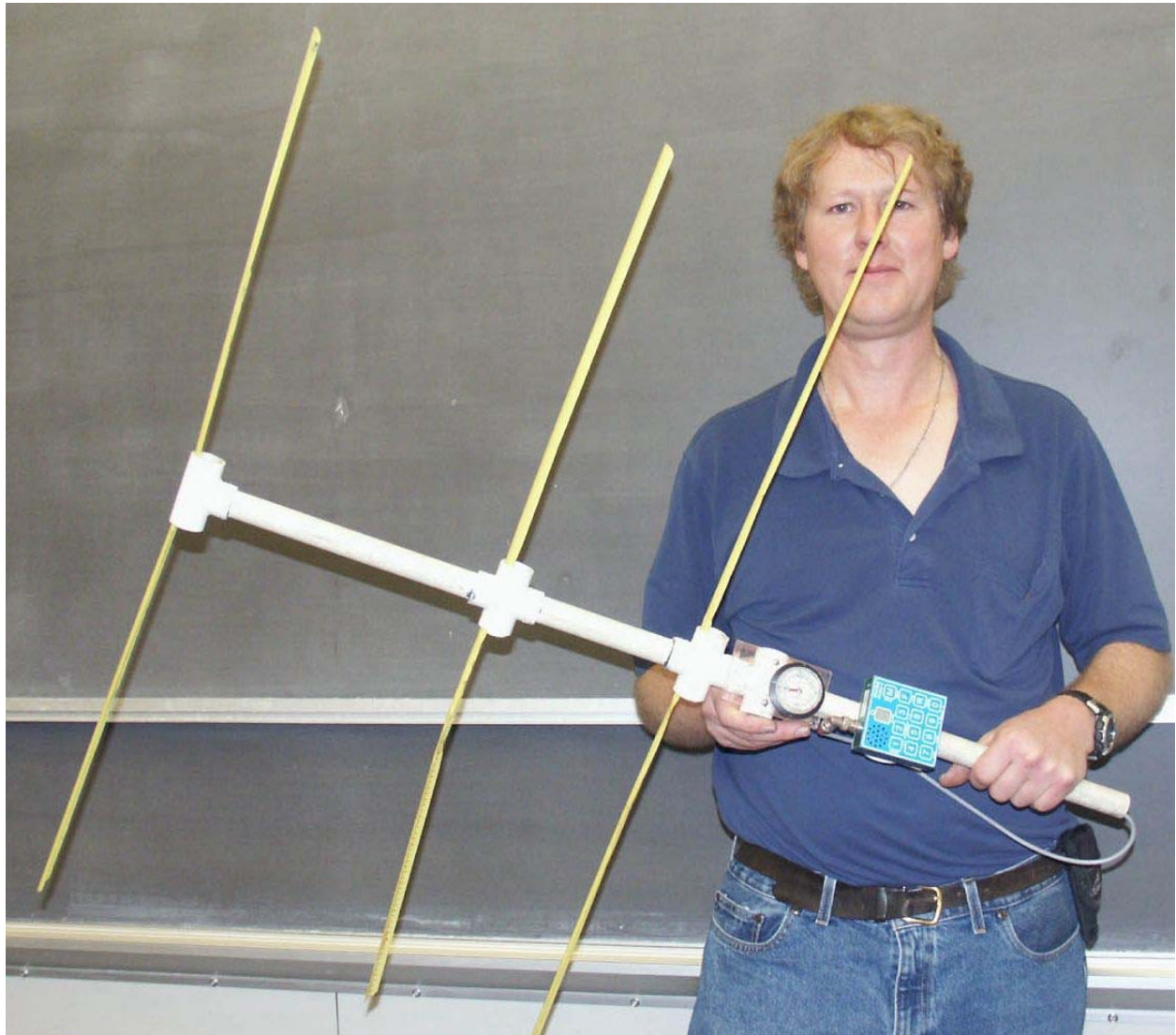


# The *Microvolt*

April, 2013



## Prologue

**Publication:** *The Microvolt* (USPS 075-430) is the official publication of the Utah Amateur Radio Club, Incorporated, 699 E. South Temple Ste 100, Salt Lake City, UT 84102-1282. It is published monthly except August. Subscription is included with club membership at \$17 per year. Single copy price is \$1.50. Periodicals postage paid at Salt Lake City, Utah. Postmaster: send address corrections to *The Microvolt*, c/o Dick Keddington, 1783 Woodside Drive, Holladay, UT, 84124-1620.

Deadline for submissions is the 24th of each month prior to publication. Submissions by email are preferred (k7hfv@arrl.net), but other means including diskettes and typewritten submissions can be mailed directly to: Gordon Smith, 632 University St., Salt Lake City, UT 84102-3213. 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.

**Club:** 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 second Thursday of the month at 7:30 PM in the University of Utah's Warnock Engineering Building, generally in room 1230 or 2230., sometimes in 2250 or 105.

**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, 1783 Woodside Drive, Holladay, UT 84124-1620.

**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-) is IRLP node 3352. Instructions for IRLP use are on the club website.

**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.

## UARC 2013 Board

President: Clint Turner, KA7OEI	801 566-4497
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"Book Lady": Brett Sutherland, N7KG	801 298-5399
Historian: Ron Speirs, K7RLS	801 904-3587
Field Day Chair: Brett Sutherland, N7KG	801 298-5399
License Trustee: Brett Sutherland, N7KG	801 298-5399
Repeater Engineer: Randy Finch, K7SL	801 556-7565
ATV Engineer: Clint Turner, KA7OEI	801 566-4497
Autopatch Engineer: Gordon Smith, K7HFV	801 582-2438

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## IRLP Information

For information on using the club's IRLP node on the 146.76 repeater, check <http://user.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: <http://user.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



# The Microvolt

The Official Publication of the Utah Amateur Radio Club, Salt Lake City, Utah  
Volume 56, Issue 4, April 2013

## April Meeting: April 11

The next meeting of the Utah Amateur Radio Club will be Thursday evening, April 11, at 7:30 P.M. The place is the Warnock Engineering Building, Room L-105 (on the lowest level). At this writing, the program topic is not known. For the most current information, check the “Next Meeting” page on the UARC web site (<http://user.xmission.com/~uarc/meeting.html>).

To reach room L-105 can be a bit tricky. If you enter the Warnock Engineering Building from the east end, you will be on what is called, simply, Level 1. Rooms on this floor have four-digit numbers starting with “1.” Near the east entrance it is the ground floor. However, as you go toward the west end of the building, three more levels appear below you. These were originally part of a building called the “Engineering and Mines Classroom Building.” To access them you must go to the southwest corner of the building. Go west from the east entrance through the large open area in the middle of the floor. On the far side of this open area, just left of the main corridor, there are several conference rooms. Turn left and walk south, next to these rooms. You will enter a corridor that makes a sharp right turn. Follow it around the turn, and at its end you should find an elevator and stairs. Take the elevator to level L1 or the stairs as far down as you can go. Room numbers on the L1 level are *three* digits long and start with “1.”

If you should happen to approach the building from the west (perhaps by walking around the west end of the Merrill Engineering Building) the entrances on the south wing go directly to the proper floor.

UARC meetings are held on the second Thursday of each month at 7:30 P.M., in the Warnock Engineering Building on the University of Utah campus. See the [map](http://user.xmission.com/~uarc/meetmap.html) at <http://user.xmission.com/~uarc/meetmap.html> for information on finding the building.

Of course, the meeting will include the “standard” meeting features:

- Availability of ARRL books from Brett, 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 after the meeting”: A chance to enjoy pizza or other gastronomic delights with other hams. It happens at Litza's Pizza, 716 E. 400 South.
- The “Meeting *before* the meeting”: A similar get-together for those who can leave work early enough to get there by 5:15 P.M. The April get-together will be at “Crown Burger,” 377 E. 200 South, in Salt Lake City.

## Latest News

### Our Cover

Our cover photo this month shows UARC President Clint Turner, KA7OEI, holding a “tape measure Yagi” used in direction-finding.

Clint presented our March program describing and demonstrating various methods of locating signal sources, techniques useful in hidden transmitter hunts and in locating interference sources. (Thanks to K7RLS for the photo.)

### Ogden Ecomm Hamfest April 20

The Ogden Amateur Radio Club (OARC) and Weber County ARES are holding a day-long hamfest on Saturday, April 20. The location will be the Ogden-Weber Applied Technical College, 200 North Washington Boulevard in Ogden. The event will run from 8 A.M. to 3 P.M.

We assume that “EComm” implies an emphasis on emergency communications. Activities will include seminars, swap tables, antenna building, license testing, and raffles.

For more information and to pre-register see [tinyurl.com/ecomm2013](http://tinyurl.com/ecomm2013).

### SM Election

During April an election will be held for the position of Utah Section Manager for the American Radio Relay League (ARRL). The Section Manager (SM) makes appointments of those who will lead Utah’s Amateur Radio Emergency Service (ARES), and the nets that are part of the National Traffic System (NTS).

The SM also makes individual station appointments such as Official Emergency Station, Official Observer, Official Relay Station.

During the month of April, all ARRL members should receive ballots and statements by the candidates. We understand there will be three candidates this year: Mel Parkes, NM7P, the incumbent SM and UARC member; Mickey Applebaum, KE7NZA, one active with bicycle races; and Pat Malan, N6VLU, recently Emergency Coordinator for Salt Lake County. All have been invited to make a brief presentation at the April UARC meeting.

If you are an ARRL member, be sure to watch for your ballot and cast your vote.

### T-Shirts Continue to be Available

UARC continues to have available T-shirts carrying the club logo and, optionally, personalized with your own call sign. Details are in the March issue of *The Microvolt*. You can find the web version at: <http://user.xmission.com/~uarc/Microvolt/>.

### Program Topics

Finding good meeting topics can be a bit tricky (as you might surmise from the fact that we’re still working on one for April). If you have some favorites you’d like to see, let any of the club officers know. Batteries? Antennas? Awards? Emergency Power? How to homebrew? VHF DX? Let us know your favorites and we’ll see what we can arrange.

## **Salt Lake City Marathon**

Ed Sim, N7RTA, tells us that amateur radio help is needed for the annual Salt Lake City Marathon, to be held on Saturday, April 20.

The Salt Lake City Marathon is a 10-year-old event that benefits Huntsman Cancer Institute/Hospital and occurs fully within the Salt Lake Valley. The course directs runners through Salt Lake City, South Salt Lake, and Holladay. The course begins at the Legacy Bridge on the University of Utah campus and heads south through Sugar House Park, continuing on to 6200 South. It then turns north and ends at Liberty Park. The full course has not yet been approved.

The Marathon is made up of five events: full marathon, half marathon, bike tour, 5K and Kids marathon. Of these events only the full marathon, half marathon, and bike tour are supported by ham radio operators.

There are 16 aid stations along the course, along with the start line, finish line, medical tent, SAG wagons, race shadow, and net control that will be manned by ham radio operators. Each position (where possible and with the exception of the SAG wagons) will be staffed with at least 2 operators.

This is an excellent event for those new to amateur radio or those wanting more experience. The goal is that at each position there will be someone to “Elmer” those with less experience.

Communications for the course will be accomplished using two repeaters on separate bands. You will need to supply your own dual-band radio. HT’s capable of 5 watts with an external antenna are sufficient. You will need to supply your own support equipment as well. In short is this a great opportunity to exercise your Grab-n-Go kit!

You may register using the following link:

[http://www.doitsports.com/volunteer2/user-volunteer-signup.tcl?event\\_id=202251&x=35&y=5&job\\_id=44090658](http://www.doitsports.com/volunteer2/user-volunteer-signup.tcl?event_id=202251&x=35&y=5&job_id=44090658)

Please state your location preference in the comments section. We will make every effort to get you as close as possible. But, this is not a guarantee.

If you would like more information please contact me via email at: [edwardsim@earthlink.net](mailto:edwardsim@earthlink.net)

Thanks for your Support.

## **Scouting for Food**

By Bruce Fereday, KF7OZK

On March 23, 2013, over 7500 scouts and 3000 adults worked around the Salt Lake Valley to collect over one million pounds of food to benefit the patrons of the Salt Lake Food Bank.

In the organization of this collection, 18 pickup points were organized around the valley. Semi truck trailers were dropped off with pallets and “totes” (large boxes to hold the food) at each of the pickup locations. The pallets and totes made the handling of the canned and dried goods easier.

By 8:00 A.M. scouts were picking up food placed on porches around the valley. Amateur radio operators were also busy setting up a net with operators at each pickup spot, mobile rovers, the scout service center, and the food bank. A packet communication net was established also. The radios were used to keep communication open with all the locations and to monitor for problems.

Early on, one of the locations requested a trailer be relocated. The truck drivers and the food bank thought that it was unreasonable since there was

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Dave Christensen, KD7UM; and John Welsch, KC5GHS, make sure communications are going smoothly.

construction at that location and the trailer was positioned in a tight spot. Upon further evaluation, a construction crane had been parked behind the food bank trailer and made the trailer inaccessible, requiring re-positioning.

Later on, one of the locations requested another trailer and more "totes". Again there was a discussion about the need for the additional resources (fuel and driver costs). The communications allowed various persons including one of the drivers to evaluate the situation and dispatch another truck (they had begun to stack food wherever they could since the totes were completely full).



Channel 4 was present.



Operators have a need for food too.

It was an interesting deployment of the amateur radio resources. We had to set up in cold, wet weather, operate where some radios didn't reach the repeater, work out packet functionality issues, and still have a good time. In the end, we all learned something, had a good time and nobody got hurt.



In anticipation of the newly proposed ham band in the 400 KHz range, I have ordered a loading coil. Here is a picture of it being delivered.

-Ron Jones, K7RJ

## **License Examination Schedule**

**Opportunities to test for new or upgraded amateur licenses**

<b>Date</b>	<b>Day</b>	<b>City</b>	<b>Contact Person</b>	<b>Phone</b>
04/06/13	(Sat.)	Salt Lake City <sup>1</sup>	Gordon Smith, K7HFV	(801) 582-2438
04/06/13	(Sat.)	Boulder <sup>2</sup>	Gary O. Zabriskie, N7ARE	(435) 674-2678
04/13/13	(Sat.)	Hurricane <sup>2</sup>	Gary O. Zabriskie, N7ARE	(435) 674-2678
04/17/13	(Wed.)	Provo	Steve Whitehead, NV7V	(801) 465-3983
04/17/13	(Wed.)	St. George <sup>2</sup>	Gary O. Zabriskie, N7ARE	(435) 674-2678
04/30/13	(Tue.)	Salt Lake City <sup>3</sup>	Eugene McWherter, N7OVT	(801) 541-1871
05/15/13	(Wed.)	Provo	Steve Whitehead, NV7V	(801) 465-3983
05/15/13	(Wed.)	St. George <sup>2</sup>	Gary O. Zabriskie, N7ARE	(435) 674-2678
05/28/13	(Tue.)	Salt Lake City <sup>3</sup>	Eugene McWherter, N7OVT	(801) 541-1871

<sup>1</sup>Preregistration required. Check with the contact person before the test session.

<sup>2</sup>More information at <http://www.dixieham.org/meetings.html>

<sup>3</sup>New location: Senior Center at the Columbus Center, 2530 S. 500 East

Check <http://user.xmission.com/~uarc/testinfo.html> for further exam information.

## **Member of the Month**

### **Mary Farnsworth, KF7YXM**

*(Photo on page 8)*

By Linda Reeder, N7HVF

This month we are featuring Mary Farnsworth, KF7YXM. Mary has had her Technician license for six months. Mary says she isn't in a hurry to upgrade. She finds there to be so much to learn about amateur radio that she wants to learn as much as she can before thinking about upgrading. Mary has been interested in amateur radio since she was a young girl but just didn't know how to get involved in it. It wasn't until years later after she was married and had raised a family with her husband Eldon, KF7YXL, who we will be featuring next month, that she got into the hobby. Mary and Eldon have one grown son, Derek. Mary said that she wanted to get her amateur radio license in case an emergency should arise when she is home alone and her husband is at work.

Mary's husband, Eldon, KF7YXL, is the emergency manager for South Salt Lake Amateur Radio Team, which is an emergency

amateur radio club he started. Eugene McWherter, N7OVT, and Carol McWherter, KC7LLW, wanted to help get this club going so they offered a Technician class. Mary, KF7YXM, her husband Eldon, KF7YXL, and their 25-year-old son, Derek, KF7YXK, took this class and obtained their Technician licenses. There were eight students in this class. Mary said one of the things she would really like to do is to teach a women's class in amateur radio. I told her about the first women's class in Utah in 2001. I gave her the names of the women that were involved in this class. She is going to talk to them and see if they can get another women's class going.

Mary's favorite repeater is the 146.76 repeater. She loves to listen to the 76ers. She started out as a shortwave listener; then, she got brave and checked in. Her first personal contact was Nick Wille KC2CU. Mary was really excited when she

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got on the Western reflector and talked with a station in New Zealand. Now Mary loves to talk to people and meet some of them in person for the first time. Mary said one of her goals is to learn about the different frequencies and to learn how to be a better amateur radio operator.

Mary is a member of UARC and plans on becoming a member of ARES and RACES. Mary enjoys participating in special events such as parades and on March 23, expected to be participating in the “Scouting For Food” event.

She will be manning a station giving messages about items needing to be delivered and picked up. On April 17, she will be working with the Utah Shakeout. The South Salt Lake Amateur Radio Team will be active in this event.

Other hobbies Mary enjoys include indexing on familysearch.org, sewing, and singing in ward and

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stake choirs. Years ago Mary received a scholarship at what used to be Ricks College and is now BYU Idaho. She has also attended Utah State College in Logan.

Mary, congratulations on getting into amateur radio. Good luck in getting that Extra Class license.



Mary Farnsworth, KF7YXM, and her OM, Eldon, KF7YXL  
(Photo by Ron Speirs, K7RLS)