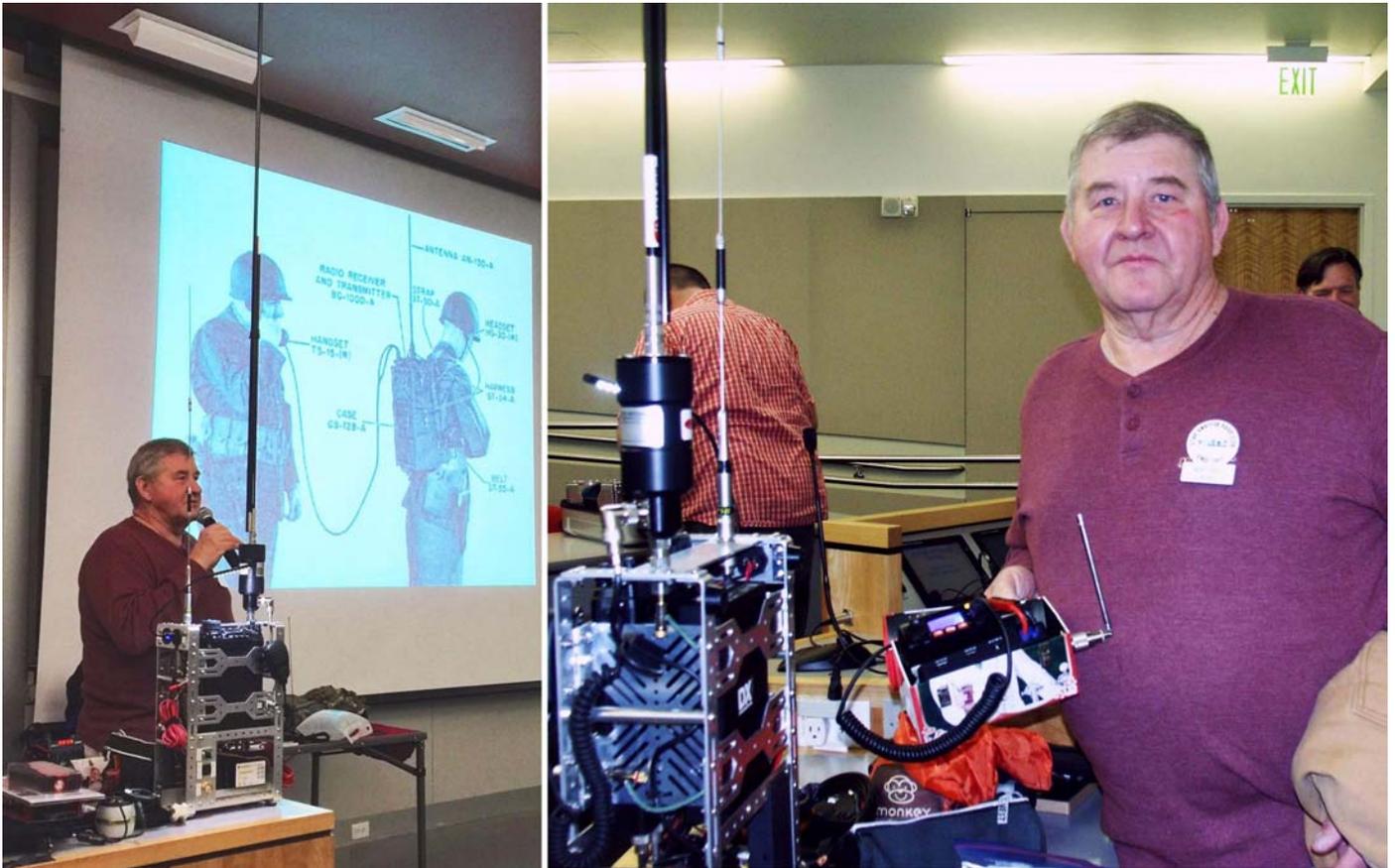


The *Microvolt*

February, 2016



Official organ of the Utah Amateur Radio Club

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 \$20 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, 5474 Hews Place, Taylorsville, UT, 84129-1416.

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, 5474 Hews Place, Taylorsville, UT, 84129-1416.

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 \$20 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 \$20 may obtain a membership without a *Microvolt* subscription for \$12. Send dues to the Club Secretary: Dick Keddington, KD7TDZ, 5474 Hews Place, Taylorsville, UT 84129-1416.

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 2016 Board

President: Clint Turner, KA7OEI	801 566-4497
Executive VP: Lonnie Oaks, K7LO	801 255-1225
Vice Pres: Bruce Fereday, KF7OZK	801 883-9428
Secretary: Dick Keddington, KD7TDZ	801 274-9638
Treasurer: Chuck Johnson, WA7JOS	801 268-0153
<i>Microvolt</i> Editor: Gordon Smith, K7HFV	801 582-2438
Asst. <i>Microvolt</i> Editor: Rick Asper, AC7RA	801 865-1693
Program Chairperson: Morris Farmer, AD7SR	801 278-4966
Program Chairperson: Chuck DeWitt, W7DTO	435 882-9002
Imm. Past Pres: Linda Reeder, N7HVF	801 364-7006

Committee Chairpersons and Members

“Book Lady”: Brett Sutherland, N7KG	801 298-5399
Historian: Ron Speirs, K7RLS	801 904-3587
Field Day Chair: (To be determined)	
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://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: <http://user.xmission.com/~uarc/announce.html>

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The Microvolt

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Volume 59, Issue 2, February, 2016

February Meeting: Ham Radio to the Rescue

We frequently hear about ham operators helping out in emergency situations. A few weeks back one of our local hams communicated to facilitate his own rescue, and quite possibly saved his life.

At the February 11 UARC meeting Dave Williams, WA7GIE, will be telling us how ham radio was a vital part of his rescue when he was trapped on a 10,620-foot mountaintop after going there by helicopter to service a communications site. Weather was dangerously cold. Fog closed in making a landing by another aircraft impossible. Hiking out was not an option. Neither Dave nor his pilot were dressed to survive the temperature for long periods. Come and hear the details about how a happy ending was finally achieved.

The meeting will be on Thursday, February 11, at 7:30 P.M. in room 1230 (the “Duke” classroom) of the Warnock Engineering Building.

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. The winter, 2016, meetings will be in room 1230. See the map at <http://user.xmission.com/~uarc/meetmap.html> for information on finding the building. The room number varies depending on availability. Parking lots circled in green are ones where you can park without needing a University permit.

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. It is held at “The Village Inn,” 910 E. 400 South in Salt Lake City.

Latest News

Our Cover

Our cover this month shows our speaker at the January meeting, Larry Jacobs, WA7ZBO. Larry had many tips for “Grab-and-Go” kits, tips gleaned from many years of experience. Thanks to Chris Fielding, KG7IVS, and Ron Speirs, K7RLS,

for the photos. Chris was Larry’s partner in the presentation.

VHF Society Swap Meet 2016

The annual Utah VHF Society Swap meet will be held at 9 A.M., Saturday, February 27, 2016. This

annual event is typically the biggest amateur radio swap meet in the state. Admission is free to VHF Society members, including those who join at the event. There will be a charge for admission for non-members and for display tables.

In order to avoid long lines on the day of the event, those planning to join or renew for 2016 are encouraged to pay dues in advance. It can be done through PayPal.

Location will be the Legacy Events Center in the Farmington Fair Park, the same place as for the last several years. The address is 151 S 1100 West, in Farmington.

The officers emphasize that there will be no early admission. Those setting up tables can enter at 8 A.M. and others at 9 A.M.

The Utah VHF Society gives financial support to a large group of repeaters spread through Utah. This is particularly valuable for repeaters which must be supported by towns having a relatively small ham population. The Society also provides frequency coordination for the state of Utah.

For more information see the UVHFS web site at: <http://www.utahvhfs.org/>.

Field Day Help Needed

Volunteers are needed to plan UARC's annual Field Day entry.

For those new to the hobby we should explain that Field Day is a nationwide contest-like event to test our ability to set up good portable and mobile communications. It happens on the fourth full weekend in June and is the largest operating event in amateur radio. The object is to work as many stations as possible in a 24-hour period. (Last year we worked over 2000 stations.) UARC in recent years has operated two to four stations from a portable site near Payson Lakes.

There are a lot of jobs that need to be done both before and during the event. Those include securing our special use permit, finishing work on our small trailer, towing trailers to the site, checking fuel levels and tires on the generator trailer and making necessary corrections, making sure all the transceivers are in operating condition, finding folks who can set up a six-meter SSB station, finding folks who can set up a satellite station, finding tent heaters than can be borrowed, initializing logging computers, and making sure we have logs, scratch paper, help sheets, and other useful kinds of paper (plus all the jobs your editor has forgotten about).

If you would be interested in managing any of these areas, let one of the officers know. And, oh yes, we still need someone to be the official Field Day Chairman and make sure everyone else is doing their jobs.

The whole thing is more fun if we have more people helping and we actually need to start planning very soon.

New Extra Class Question Pool

This is the year for revision of the question pool used to create examinations for the Extra Class license. The question pools for all classes of license are revised on a four-year cycle. The new Extra Class pool will go into effect July 1, 2016.

The Question Pool Committee, part of the National Conference of Volunteer Examiner Coordinators, published the new pool on its web site in early January, but withdrew it on January 22. We assume the updated version will appear soon on line and the updated manuals will be available within a few months.

In the opinion of some folks who saw the original version of the new pool, the new material is more difficult than the old. Areas where brand new questions have been added were propagation and

software defined radio. Those who are planning to take the Extra test soon may want to schedule it before July 1. For those with longer-term plans, it would be well to wait until the new pool is available and set it as their target.

The new pool will make its first appearance at <http://www.ncvec.org>.

Correction

In last month's "Member of the Month" column about Gaye Eggli, KC7KDY, we reported that her husband, Dan, KC7HOS, held a General class license. The fact is that Dan is an Extra Class operator and has been since 2009. We regret the error.

ARRL Officer Change

Our Division Director has gone to a better place – or at least a place where he can serve more people. The story goes like this:

Officers in the American Radio Relay League, ARRL, are chosen by the League's Board of Directors, one director from each of the 15 divisions. Utah is part of the Rocky Mountain Division which also includes the states of Colorado, New Mexico, and Wyoming. The President of ARRL since 2010 has been Kay Craigie, N3KN. She decided to step down this year after three terms in office.

The Board chose First Vice-President Rick Roderick, K5UR, of Little Rock, Arkansas, to become the new President. That left an opening for First Vice-President which was filled by Greg Widin, K0GW. The Second Vice-President position was also vacated, and our own Brian Mileschosky, N5ZGT, was selected for that position. That left the position of Rocky Mountain Division Director open. It was filled by the Vice-Director, Dwayne Allen, WY7FD, of Sundance, Wyoming. That leaves a vacancy for Vice-Director which will be filled by President

Roderick. We wish Brian well in his new position. He has sent the following e-mail to all the ARRL members in the division:

Greetings from the ARRL Board meeting near Newington, Connecticut.

Before news of this weekend's meeting hits the various ham news outlets, I wanted to be the first to inform you that the ARRL Board of Directors has elected me to the position of ARRL Second Vice-President, Rick Roderick, K5UR, and Greg Widin, K0GW, both outstanding hams and leaders, were elected as ARRL President and First Vice President, respectively. Our terms, two years in length, commence at the conclusion of this weekend's meeting.

Running for Vice President was not, in any way, an easy or quick decision. Not once, since first joining the Board on your behalf in 2005, has representing you and all members across the Rocky Mountain Division been anything less than an absolute privilege, joy, and honor.

The League is entering an unprecedented period of transition with the retirement of Dave Sumner, K1ZZ, (after sitting at 225 Main Street for the past 44 years), the forthcoming election and of ARRL's new Chief Executive Officer, and President Kay Craigie, N3KN, hanging up her own gloves after serving on ARRL's Board for more than 25 years. Externally, pressures and opportunities continue to present themselves to amateur radio — political, regulatory, technological, and demographic in nature.

While I will greatly miss serving you in the capacity of Director, I am committed to working diligently alongside President Roderick, our League's officers and board members, as well as ARRL's staff and management to ensure the League remains able to tackle these challenges and opportunities and remains the strong national association for amateur radio that you expect and deserve.

Vice-Director Dwayne Allen, WY7FD, will ably assume the role of Rocky Mountain Division Director at the conclusion of this weekend's

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meeting. He and I have worked together, in complete lockstep, since 2008, so I have absolute confidence in his ability to keep leading our Division forward in the field, on the air, and within the Board room. Please give Dwayne your full support as he transitions into his new role and identifies a great appointee for Vice-Director to serve you alongside him. Our Division will remain in great hands.

Thank you once again for the pleasure and opportunity to serve and represent the Rocky Mountain Division these past 11 years. I will certainly remain active around our parts, and am especially excited to serve you and our entire organization in this new capacity.

See you on the air!

Sincere 73,
Brian Milesosky N5ZGT

ARRL Gets New CEO

Amid other changes in ARRL personnel, the most important change of all may be that of CEO. David Sumner, K1ZZ, CEO and General Manager has looked after the day-to-day activities of ARRL for over four decades, but is retiring this year. His replacement was announced on January 25 and is Tom Gallagher, NY2RF, of West Palm Beach Florida. Mr. Gallacher will take over the reins officially on April 18, 2016. He was elected by the Board of Directors at a webinar meeting on January 25. Hams will have a chance to meet him at the Orlando Hamcation, February 12-14.

UARC Income and Expense Report for 2015

Income		Expenses	
Description	Amount	Description	Amount
ARRL Dues	1038.00	Administrative	154.35
Book Sales	5271.00	ARRL Memberships	921.00
Donation	901.00	Books	1,681.91
Dues	4389.79	Capital Equipment	982.35
Future Dues	597.00	Field Day	491.81
Int Inc.	121.69	Insurance	200.00
Steak-Fry Income	694.00	Meeting Expense	383.05
		<i>Microvolt</i> Postage	600.00
		<i>Microvolt</i> Printing	1,572.95
		PayPal Fees	91.87
		Repeater	451.05
		Sales Tax	176.99
		Square Inc. Fees	58.38
		Steak-Fry	1105.09
Total Income	\$13,012.48	Total Expenses	\$8,870.80
		Net Income: \$4,141.68	

Note from the treasurer: While our income exceeded expenses this year, the difference is almost completely in book sales. The board made a decision to reduce our inventory, so we sold more books than we bought. This is a single year anomaly. —*Chuck Johnson, WA7JOS*

License Examination Schedule

Opportunities to test for new or upgraded amateur licenses

Date	Day	City	Contact Person	Phone
02/06/16	(Sat.)	Salt Lake City ¹	Gordon Smith, K7HFV	(801) 582-2438
02/06/16	(Sat.)	Logan	Richard D. Elwood, KE7GYD	(435) 753-4360
02/13/16	(Sat.)	Hurricane ²	Gary O. Zabriskie, N7ARE	N/A
02/17/16	(Wed.)	Provo	Steve Whitehead, NV7V	(801) 465-3983
02/17/16	(Wed.)	St. George ²	Gary O. Zabriskie, N7ARE	N/A
02/20/16	(Sat.)	Provo	Steve Whitehead, NV7V	(801) 465-3983
02/20/16	(Sat.)	South Jordan	Lance Q. Homer, K7LQH	(801) 742-5382
02/23/16	(Tue.)	Salt Lake City ³	Garth Wiscombe, W7PS	(801) 558-5936
03/02/16	(Wed.)	Clearfield	Mike Youngs, KK7VZ	(801) 573-3922
03/06/16	(Sat.)	Logan	Richard D. Elwood, KE7GYD	(435) 753-4360
03/16/16	(Wed.)	Provo	Steve Whitehead, NV7V	(801) 465-3983
03/16/16	(Wed.)	St. George ²	Gary O. Zabriskie, N7ARE	N/A
03/19/16	(Sat.)	Provo	Steve Whitehead, NV7V	(801) 465-3983
03/29/16	(Tue.)	Salt Lake City ³	Garth Wiscombe, W7PS	(801) 558-5936

¹Preregistration required. Check with the contact person before the test session.

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

³New location: Senior Center at the Columbus Center, 2530 S. 500 East

⁴More information at <http://www.utaharc.org/Exams/>

Member of the Month

Elisabeth Barry, KG7ZFK

By Linda Reeder, N7HVF

This month we are featuring Elisabeth Barry, KG7ZFK, a brand new amateur radio operator. She was in Morris Farmer's (AD7SR) graduating class in November, 2015, receiving her Technician class license. She has known Morris since 1987 after graduating from the University of Utah. After students graduate from his licensing class, Morris holds a class called "What's Next?" and teaches them how to program their radios. That is wonderful.

Elisabeth has been exposed to amateur radio since she was very young. Her dad obtained his first amateur radio license in North Carolina in 1954 when he was 14 years old. His first call was

W4GHV, the call sign that Elisabeth remembers the most. Her dad has his Extra Class license and was very active. He would take the family to the New Mexico mountains and the desert to hamfests. He sent her boyfriends up to the top of his radio antenna to install their lighted Christmas star during the holiday season. With a harness, right?... Uh what harness?

Her dad practically taught Elisabeth Morse Code before teaching her to walk or tie shoelaces. She thought Morse Code was silly and was glad when it was dropped years later. In addition to Dad, what later inspired her to get her ham license was her CERT class. Her teacher reminded her that amateur

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radio can be vital for emergency preparedness. Emergency communications is her favorite thing about amateur radio. She'd love to be available to help when needed. Elisabeth is looking forward to UARC's presentation on amateur radio's involvement in emergencies. She also enjoys learning new things and meeting people at local clubs and nets around town. She was CPR-trained three years ago and CERT-trained in May. Elisabeth and her mother took the CERT class together.

Another facet of amateur radio that Elisabeth is interested in is broadband mesh, complementing CERT with radio skills. Elisabeth is also interested in creating a geocache puzzle related to amateur radio.

Elisabeth's father was in the Air Force. They moved a lot and lived in most of the southern states. In 1980 Elisabeth moved to Salt Lake City. At the time Elisabeth was attending a college in New Mexico and transferred to the University of Utah. Elisabeth received her Bachelor's degree in Industrial Engineering. She works for Workday and builds cloud-based enterprise software applications and is focused on performance and reliability engineering. She has worked there more than seven years. She and Dave have been married for 11 years.

Dave is interested in R/C electric airplanes, and, inspired by Elisabeth's Dad, is just getting into quads.

Elisabeth is a new member of UARC. She has been participating in several different nets. Other hobbies Elisabeth enjoys are: geocaching, yoga, pilates, and traveling. She volunteers with Best Friends Animal Society (<http://bestfriends.org/>) in the kitten nursery and pet adoption center in Sugarhouse. She also volunteers for Adopt-a-Native-Elder (<http://anelder.org/>) and Code.org, (<http://code.org/>) an organization to help teach computer science to children, particularly girls.

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Elisabeth, congratulations on getting into amateur radio.



Elisabeth Barry, KG7ZFK
(Photo by Ron Speirs, K7RLS)