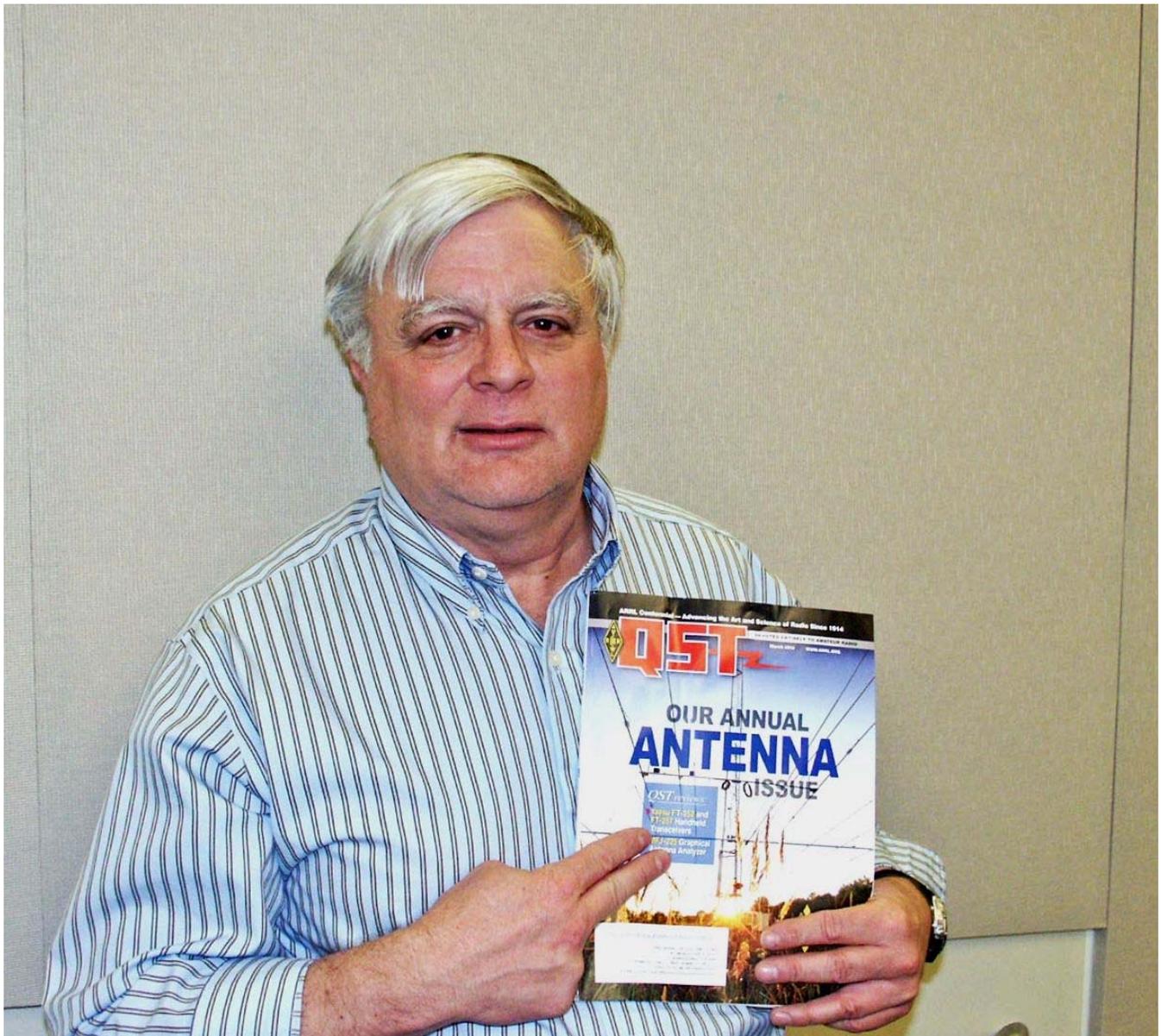


# The *Microvolt*

April, 2014



## 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, 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 \$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, 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 2014 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 57, Issue 4, April 2014

### April Meeting: Digital Modes

If you're still wondering if PSK31 is a DX prefix and think Olivia is a recently licensed YL, then you'll probably want to come to the April UARC meeting. It may help explain some unfamiliar terms and some unfamiliar noises found around 14,080 kHz.

Digital modes have added a whole new experience to amateur radio over the last two decades or so, and their number is expanding all the time. They make 20-meter DX possible on low power and even permit moonbounce QSOs without having to install railroad tracks in the south 40 to rotate the antenna array.

Stan Gordon, K7JIZ, a veteran of amateur digital modes, will be telling us about those modes at the next UARC meeting, to be held on Thursday, April 10, 2014. What equipment do you need? Where do you get software? What kind of computer does it take? Which modes are best to start with and how do you know when to use which one? These are the sorts of questions that Stan will deal with.

The meeting will be on Thursday, April 10, at 7:30 P.M. in room 2230 (the "Clark" classroom) of the Warnock Engineering Building.

The front elevators in the Warnock Building have the second floor locked out in the evening. There are two possible solutions for the handicapped. The first is to get into the elevator and then send an able-bodied person to the second floor to call the elevator. The second method is to find your way to the elevator in the southwest corner of the building and use it to access the second 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. The winter and spring, 2014, meetings are scheduled in room 2230 or 2250. See the [map](#) for information on finding the building. The room number varies depending on availability.

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 “The Cinegrill,” 344 S. 300 East in Salt Lake City.

## **Latest News**

### **Our Cover**

Our cover this month shows Dave Christensen, KD7UM, who presented our March meeting program on “Antennas and Other Stuff.” Dave recommends the ARRL Antenna Book. (Thanks to K7RLS for the photo.)

### **EMCOMM Conference May 2-3**

The Ogden Amateur Radio Club has announced the annual EMMCOMM (Emergency Communications) Conference to be held on the evening of Friday, May 2, and the daylight hours of Saturday, May 3 at Roy High School. (Roy High is at 2150 W. 4800 South in Roy.) Friday evening's event will be a keynote speaker (apparently yet to be named) at a catered dinner. Saturday will feature dealer displays, license exams, and classes to include:

- D-Star 101
- Legos and Communications
- APRS — What is it and what good is it?
- Hams and Healthcare
- Ham Radio 101: Beginners' Help
- Antenna Building (twinlead J-pole)
- Herriman's Emergency Communications
- LOTOJA Communications Network (bicycle race)
- Grab-N-Go Bags
- Getting Ladies Involved in Emcomm
- IT Security
- BARC Rocket Recovery
- Winlink 2000: E-mail and Radios
- Utah County Amateur TV and SWAT

Cost is \$5.00 [preregistration](#) or \$8.00 at the door. The Friday dinner adds an additional \$15 and use of a swap table an additional \$5.00.

For more information see:

<https://www.facebook.com/rmemcomm>

(Facebook membership is not required.)

### **Technician and General Classes Starting**

By the time you read this, Morris Farmer's latest classes for those seeking Technician and General licenses respectively, will likely have already started. However, there still may be an opportunity for those interested to get a late start and catch up. If you're interested, contact Morris, AD7SR, at: <mailto:ad7sr@comcast.net> for more information.

### **Rocky Mountain Division Convention Moved**

Brian Milesosky, N5ZGT, Director of ARRL's Rocky Mountain Division, tells us that this year's planned Rocky Mountain Division Convention scheduled for Laramie, Wyoming, this July has been cancelled because of extenuating circumstances. He goes on,

We are grateful that the Albuquerque Duke City Hamfest has stepped forward to serve as alternate host of the 2014 ARRL Rocky Mountain Division Convention. It will now take place August 8-10 in sunny Albuquerque, New Mexico. Led by individuals who organized the 2011 Division Convention in Taos, the annual Duke City Hamfest is a standing three-day

amateur radio convention that occurs in one of Albuquerque's largest hotels, so it will ably fit the bill as a Division Convention members have become accustomed to.

More details about the 2014 ARRL Rocky Mountain Division Convention in Albuquerque will be provided soon. Please mark your calendars!

For more information see:  
[dukecityhamfest.org](http://dukecityhamfest.org).

### W1AW Portable Schedule

The year 2014 is the centennial year for the American Radio Relay League (ARRL). An on-air year-long celebration of the anniversary is in progress. As part this celebration, stations in various states will be signing the W1AW call and looking for contacts. The schedule for the next several weeks is as follows:

Dates	State	State
4-9	Massachusetts	Virginia
4-16	Mississippi	North Dakota
4-23	New Jersey	New Hampshire
4-30	Connecticut	Nevada
5-7	Utah	Nebraska

Utah's W1AW/7 transmissions will be coming from the station of John Utley, K7CO, with likely a variety of operators.

For those who have yet to get their "Worked All States" (WAS) certificate, this year presents an opportunity to find all fifty states on the air from easily-heard stations on the HF bands. The portable W1AW operations are part of the "Centennial QSO Party" where operators can accumulate points in various ways throughout 2014. For full details see:

<http://www.arrl.org/centennial-qso-party>.

## License Examination Schedule

Opportunities to test for new or upgraded amateur licenses

Date	Day	City	Contact Person	Phone
04/05/14	(Sat.)	Salt Lake City <sup>1,4</sup>	Gordon Smith, K7HFV	(801) 582-2438
04/12/14	(Sat.)	Boulder	Eric J. Feiler, KE7ZDV	(435) 335-7393
04/12/14	(Sat.)	Hurricane <sup>2</sup>	Gary O. Zabriskie, N7ARE	(435) 674-2678
04/16/14	(Wed.)	Provo	Steve Whitehead, NV7V	(801) 465-3983
04/16/14	(Wed.)	St. George <sup>2</sup>	Gary O. Zabriskie, N7ARE	(435) 674-2678
04/29/14	(Tue.)	Salt Lake City <sup>3</sup>	Eugene McWherter, N7OVT	(801) 541-1871
05/17/14	(Sat.)	Farmington	Gary L. Davis, KE7MQF	(801) 298-3127
05/21/14	(Wed.)	St. George <sup>2</sup>	Gary O. Zabriskie, N7ARE	(435) 674-2678
05/21/14	(Wed.)	Provo	Steve Whitehead, NV7V	(801) 465-3983
05/27/14	(Tue.)	Salt Lake City <sup>3</sup>	Eugene McWherter, N7OVT	(801) 541-1871
06/04/14	(Sat.)	Salt Lake City <sup>1,4</sup>	Gordon Smith, K7HFV	(801) 582-2438

<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

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

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

## **7QP: May 3-4**

Have you ever wanted to be the object of a pileup, the station that everyone wanted to work? One way to achieve this is to spend a few tens of thousands of dollars and talk your way into a DXPedition to a remote island. But a less expensive way is to participate in *7QP*, the annual Seventh Call Area QSO Party.

Thinking that the eastern half of the country should not have all the QSO Party fun, some Oregonians organized a QSO Party incorporating the entire seventh call area. The QSO party gives folks around the country (or even around the world) a chance to work stations in Arizona, Idaho, Montana, Nevada, Oregon, Utah, Washington, and Wyoming and get a certificate for doing it. The eight states comprise some 259 counties and some are among the rarest in the country. Last year 203 of them actually made it on

the air. Stations inside and outside the 7<sup>th</sup> district compete for points.

The 7QP event is a great time for those who like to operate mobile on HF to go visit some rare counties. Stations outside the 7<sup>th</sup> area get points for each station worked and a multiplier for the number of counties worked, so if you can put a station on the air from Wayne or Daggett County, or the line between two rare counties, you can find yourself very popular on the air. Also, you can get points yourself, 2 for each SSB QSO, 3 for each CW QSO, and a multiplier of the number of states, provinces, or DXCC entities the you contacted.

For full information and a place to sign up for counties you might be planning to visit, see the web site at <http://WS7N.net/7QP/>.

## **The Technician class of March 24, 2014**

By Morris Farmer, AD7SR

I teach quite a few license classes. Bill Rouleau, AE7UI, and I teach Technician and General courses while Ron Speirs and I teach the Extra course.

I am a believer in the “long form” Technician course, that is, a course that lasts 6-8 weeks, gives the students a better understanding of the Technician material and a good introduction of what Ham Radio is all about. I teach the class in my shack so they get to see, and have a hands-on experience, with Ham equipment.

The course started with 25 students. They crowded into every possible spot; some didn't even have a flat spot to write on. After a few weeks, various conflicts thinned the class down to sixteen. One student took and passed her exam before the

course ended, leaving fifteen. At the end of all our courses Eugene McWherter and his crew come in and give the exam, after which we have a pizza party. I am particularly proud of this class, not only was it the biggest we have taught, but they did exceptionally well. You see their pictures on page 8, including Craig Christianson who not only aced the Technician exam (one of three that did), but went on to pass the General exam *and* the Extra exam. Well done, Craig! Because I'm so proud of this class I asked Gordon if I could publish their pictures in *The Microvolt*. (See photos on page 8.) Left to right, top to bottom: Val, Janae, Craig, and Bittany Christianson; Lacey Campbell; Steve Carlson; Gene Carroll; Travis Clark; Tony Diamond; Keith Lawson; Sandra Limb; Erin Mortensen; Melanie Mortensen; and Chris Wigman.

## **Member of the Month**

### **Doug Bosen, KG7GOV**

By Linda Reeder, N7HVF

This month we are featuring Douglas Bosen, KG7GOV. Doug has always been interested in amateur radio. Doug was a short wave listener and loved to listen to the ham bands on his scanners. Someday he was going to get his amateur radio license but Doug's job and raising a family kept him pretty busy.

For 34 years Doug worked for Grass Valley as the senior technical support person. This company works on audio studio and broadcasting equipment. Doug said he was the one you would call when your favorite TV station went off the air.

Doug says now that he has retired he has time, finally, to get into amateur radio. Doug is in the U.S. Coast Guard Auxiliary. This is where Doug met Morris Farmer, AD7SR. Doug took Morris Farmer's Technician class in October, 2013, and in November, Doug passed not only the Technician test but the General as well. He is now currently taking Morris Farmer's Extra class.

Doug's favorite thing about amateur radio is emergency communications. He has just joined ARES. Doug says the emergency communications works well with the Coast Guard. Doug also likes the people he is meeting in amateur radio. Doug has an Icom 7000 with a G5RV antenna, 30 feet in the air. Doug said he went to the VHF Society

swap meet where he bought four radios: a mobile for his truck, a mobile for his Jeep, a base station for his house, and a handheld. He also bought an HT-100 Pro2 tuner and it works with the G5RV. He is having a great deal of fun getting on the air and making contacts. Doug says ten meters is wide open right now. He finally contacted Tokyo, Japan.

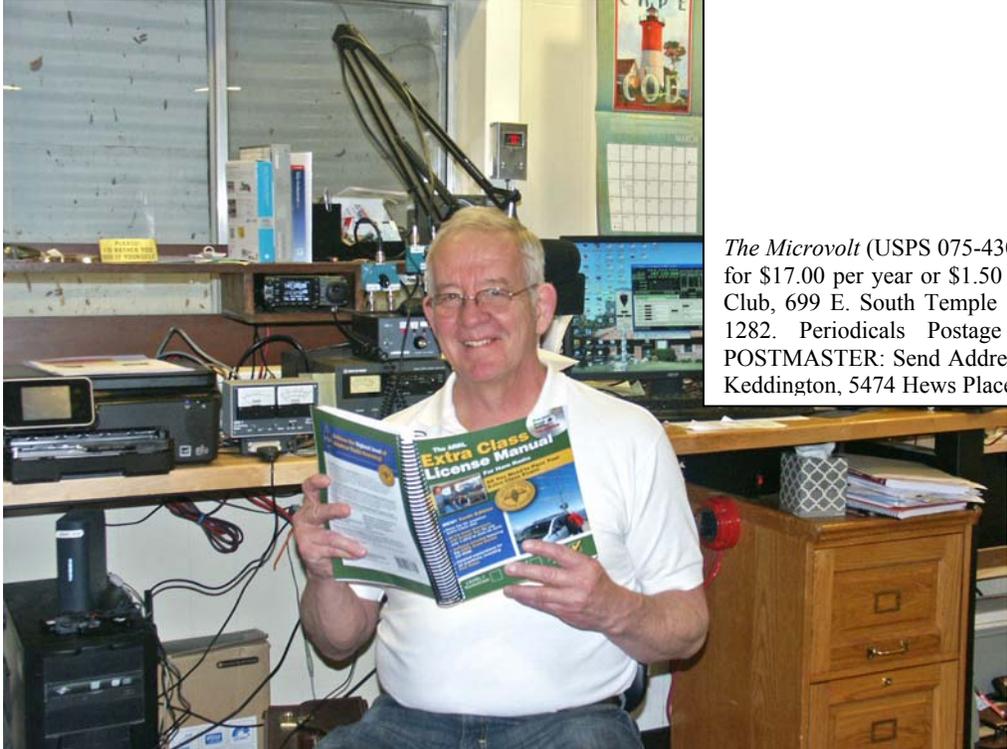
Doug is working very hard trying to get his grandchildren into amateur radio. His seven year old grandson has made three contacts as a third party on the radio. Doug and his late wife, Vickie, have two children, one boy and one girl, and they are all grown now. Doug has four grandchildren. He would like to see all of them get into amateur radio.

Doug is a member of ARES, UARC, ARRL and the Utah VHF Society. Other hobbies that Doug enjoys are fishing, hunting, and shooting. He reloads his own ammunition. Doug also enjoys hiking, snow shoeing and camping.

Doug, we wish you the best in all of your endeavors, especially obtaining the extra class license.

(See photo on page 8.)

**The Microvolt April 2014**



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Doug Bosen, KG7GOV, at his station preparing for the Extra Class exam.  
(Photo by K7RLS)



Val, Janae, Craig, Brittany, Lacey; Steve, Gene, Travis, Tony; Keith Sandra, Erin, Melanie, Chris  
New Technicians from AD7SR's Class (See article on page 6)