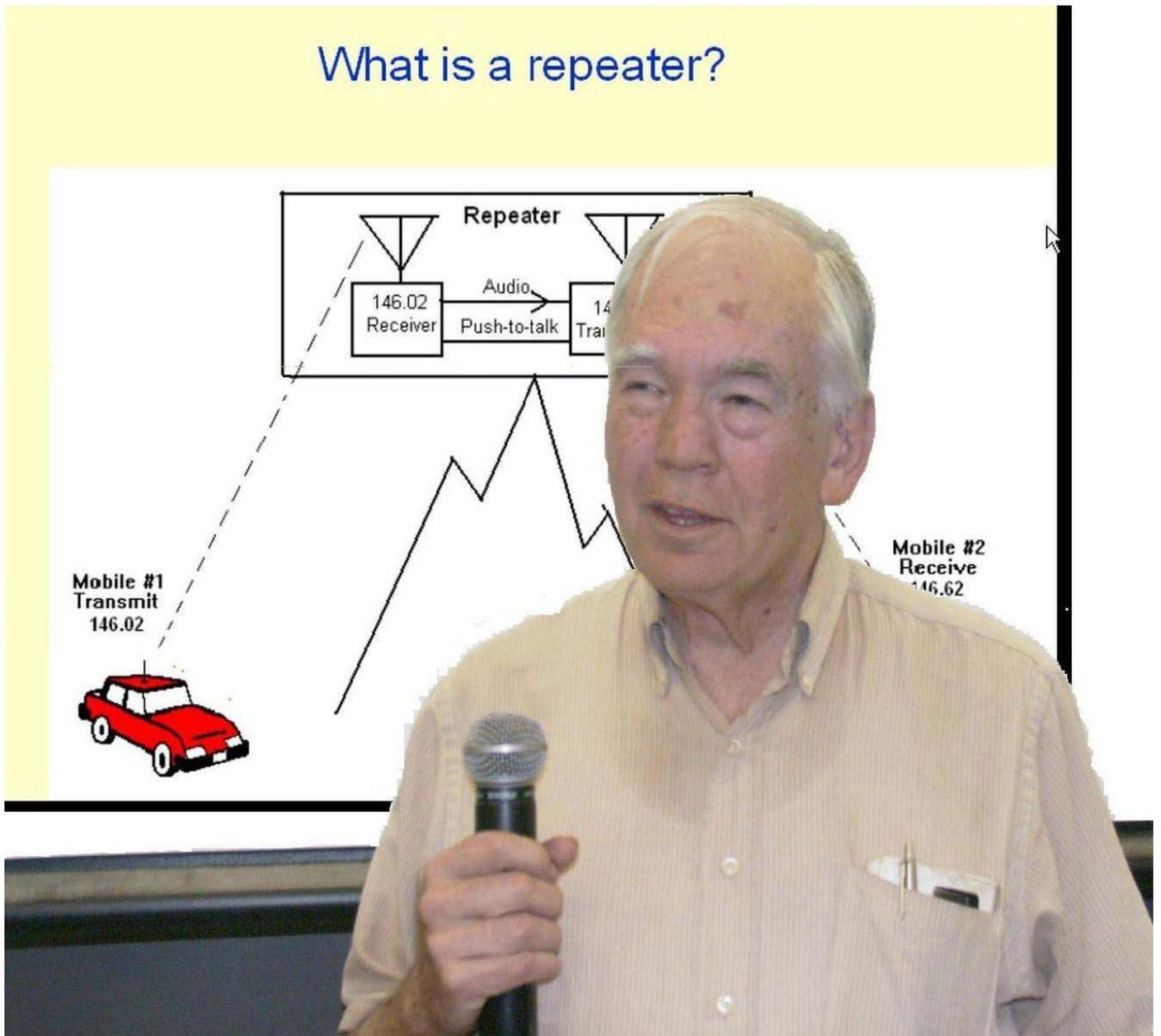
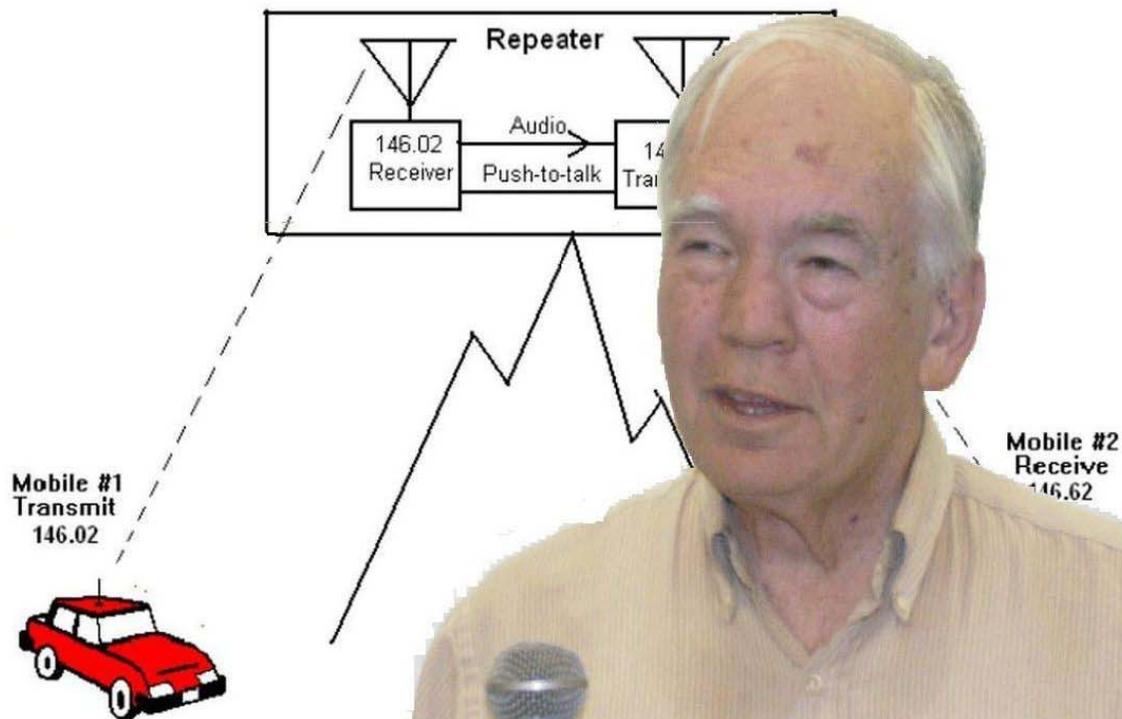


The *Microvolt*

December, 2013

What is a repeater?



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 2013 Board

President: Clint Turner, KA7OEI	801 566-4497
Executive VP: Rick Asper, AC7RA	801 865-1693
Vice Pres: Brett Sutherland, N7KG	801 298-5399
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: Mary Alexander, KF7QVL	801 347-3220
Program Chairperson: Morris Farmer, AD7SR	801 278-4966
Program Chairperson: Gary Wong, AB1IP	801 582-0906
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: 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

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December Meeting: Quiz and Elections

The last UARC meeting of 2013 will feature election of officers and the traditional amateur radio quiz put together by our esteemed program chairperson, Gary Wong, AB7IP. Use this chance to test your knowledge and, perhaps, find out a few things you didn't know.

Also, think about who you would like to lead the club in 2014. The nominating committee's choices were announced at the November meeting. Nominations from the floor will be accepted again at the December meeting before elections. See page 4 for further details.

The meeting will be on Thursday, November 12, 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 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 fall, 2013, meetings are scheduled in room 2230. 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 December get-together will be at "Charlie Chow's Dragon Grill," 255 E. 400 South in Salt Lake City.

Latest News

Our Cover

Our cover shows our editor at the November UARC meeting attempting to convey recommendations about operating procedures. Thanks to Ron Speirs, K7RLS, for the photo.

Elections Coming

December is election month for UARC; we will be picking officers for 2013. At the November meeting the nominating committee's choices were presented and the floor opened for further nominations. At this point, the slate of nominees stands as follows:

President: Clint Turner, KA7OEI
Executive Vice-President: Rick Asper, KC7RA
Vice-President: Brett Sutherland, N7KG
Secretary: Dick Keddington, KD7TDZ
Treasurer: Chuck Johnson, WA7JOS
Program Chairperson: Chuck DeWitt, W7DTO
Program Chairperson: Morris Farmer, AD7SR
Microvolt Editor: Gordon Smith, K7HFV
Assistant Editor: Mary Alexander, KF7QVL

Think about who could lead the club well in the coming year and, perhaps, even consider volunteering.

Call-Plate Mixup

(From the DCARC Reflector)

A funny thing happened on my way to the Department of Motor Vehicles (DMV) when I was going to pay my yearly registration fees and taxes for my van.

I had received the standard notice of registration reminder for my Dodge Caravan. It had printed on the card that I owed (in my case) \$108.75. It also

said that I needed a safety check and smog testing which I accomplished earlier in the day.

I dutifully wrote out a check for the \$108.75 and drove to the DMV. I went through the drive through and sent in my paperwork and check via the tube delivery system. After a few minutes the clerk informed me that I owed \$10.00 more and he didn't understand why it wasn't printed on the card. After a few minutes of talking back and forth I told him that it didn't seem right to charge me the extra \$10.00 which he said was the yearly amount that they charged for "personalized plates." I told him to send my check back out to me and I sent in my credit card to get the transaction over with. He completed the transaction and sent out my new stickers for next year.

I exited the drive-through, parked my van and immediately went inside to consult a supervisor why this had happened. I have been living in Utah for about eight years now and this had not been charged before except the first-time cost I paid when I first got my ham radio plates.

The receptionist girl who gives out the electronic scheduling slips for service at their windows asked me to step aside and she would look it up for me. Six or so people behind me were given slips and took their seats to wait. When the nice girl looked up the information concerning Amateur Radio plates, it said, in black and white, that there should be no extra fees. She then said that I needed to see a supervisor and gave me a ticket to also wait in line. I waited about fifteen extra minutes before getting up to a window. The clerk took my paperwork back to a supervisor and both came back to the window. They had voided my credit card payment showing the extra \$10.00 and redid my paperwork to show the proper amount. I gave them back the original check that I had written.

While waiting at the window, however, in walks Jim Southwick, N7JS. I called him over and told

him of the situation. The plot deepened when he told me that he was trying to re-register his vehicle on-line with his call sign license plate and found that the price was \$10.00 higher than if he were to come into the DMV in person. He had forgotten to include his Safety and Smog certificate with his original submission and had come in to take care of it face-to-face.

While at the window, I specifically told the supervisor about Jim's experience with the extra \$10.00 showing on-line. She told me that the DMV had just put in a new computer system and there appeared to be a bug that related to our situation. The system was treating all ham radio plates the same as "personalized plates" and they were looking into the problem. The supervisor told me that she was going to send an email to all the employees so they wouldn't make the same error again.

So, if you have ham radio plates and want to renew your registration, be aware of the glitch and explain that you do not have to pay extra each year. It would be nice that if any of you renew your registration and all goes well, you might want to send a notice via Yahoo Groups to let all know that the glitch has been corrected.
TNX

Kent Gardner, WA7AHY

For Sale

For Sale: Ten-Tec Omni 7 Transceiver with CW Filter, built-in antenna tuner and microphone.. Contact Phil Bullock, K7PB, Home phone: (801) 582-0329, Cell phone: (801) 599-6935.

License Examination Schedule

Opportunities to test for new or upgraded amateur licenses

Date	Day	City	Contact Person	Phone
12/07/13	(Sat.)	Salt Lake City ^{1,4}	Gordon Smith, K7HFV	(801) 582-2438
12/07/13	(Sat.)	Logan	V. Phillip Rasmussen, N7JFG	(435) 770-0630
12/14/13	(Sat.)	Hurricane ²	Gary O. Zabriskie, N7ARE	(435) 674-2678
12/18/13	(Wed.)	Provo	Steve Whitehead, NV7V	(801) 465-3983
01/15/14	(Wed.)	St. George ²	Gary O. Zabriskie, N7ARE	(435) 674-2678
01/15/14	(Wed.)	Provo	Steve Whitehead, NV7V	(801) 465-3983
01/18/14	(Sat.)	Farmington	Gary L. Davis, KE7MQF	(801) 298-3127
01/28/14	(Tue.)	Salt Lake City ³	Eugene McWherter, N7OVT	(801) 541-1871

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/>

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

Utah Field Day Scores

The results are in! The results of the 2013 Field Day Contest (‘er excuse us..*Operating Event*) have been published. Twenty-two Utah stations submitted Field Day entries with a wide range of scores.

It seems unfair to compare raw scores of six-transmitter operations to those with, say, a single battery-powered QRP rig. A way around this problem is to calculate the percentile of each entry

within its operating class — folks with the same number of transmitters and same general type of operation. We have listed the entries in that order. As an example, K7UM placed fourth out of 43 entries in the 6A class. So 90.7% of the 6A entries had a lower score than did K7UM.

UARC’s W7SP entry came in second in total score and third in percentile among portable and mobile stations.

2013 Utah Field Day Scores (in order of percentile)

Call	Score	Class	QSOs	Plc	Of	Pctl	2012 Pctl	Name of Organization
Portable and Mobile Stations								
K7UM	11,122	6A	3,589	4	43	90.70	97.8	Utah DX Association
WX7G	1,620	1C	380	7	54	87.04		
W7SP	4,646	3A	1,197	49	310	84.19	95.6	Utah Amateur Radio Club
K7JEO	664	1B1	207	29	69	57.97		
K7NS	870	1B1B	67	57	132	56.82		
K7UB	2,434	3A	643	136	310	56.13		Golden Spike Amateur Radio Club
W7SU	1,874	2A	431	221	399	44.61	46.0	Ogden ARC
W7IVM	3,054	5A	679	41	74	44.59	58.1	Bridgerland Amateur Radio Club
W7JEX	610	1B1B	61	76	132	42.42		
WR7AAA	1,865	2AB	147	10	17	41.18		Rainbow Canyons ARC
AC7QJ	445	1B1B	39	91	132	31.06		
W7DRC	2,605	3AB	312	7	8	12.50	83.3	Dixie Amateur Radio Club
W7BAR	1,476	5A	130	66	74	10.81	19.6	Borderline Amateur Radio Club
Fixed Stations								
N5LZ	2,980	1E	283	24	251	90.44		
W7QL	2,324	1F	600	5	33	84.85		
KB6UNC	638	1D	319	58	380	84.74		
K7EA	1,678	1E	382	52	251	79.28	81.2	
KD7HHW	394	1D	83	98	380	74.21		
KB7EEG	956	1E	399	94	251	62.55		
WA7BME	264	1D	54	145	380	61.84		
K7RFW	598	1E	87	124	251	50.60		
K7JSC	292	1E	21	193	251	23.11		

Class Key: **A:** Club or Group Portable, **B:** One- or two-operator portable **C:** Mobile
D: Home station on commercial power **E:** Home station on Emergency Power
F: Emergency Operating Center

The initial number in an entry class is the number of simultaneous transmitters. A 3A entry would mean a club or group portable running three simultaneous transmitters. A “B” at the end of the class designator (e.g. “3AB”) indicates that the station used battery power and ran five watts or less.

As usual, the Utah DX Association came in at the top of the list, both in total score and percentile. They operated this year in the 6A class, double the number of transmitters used last year. Interestingly, their QSO count of 3589 was less than a 400-contact increase over their 2012 entry in the 3A class.

For some reason the Davis County Amateur Radio Club, K7DAV, had its entry declared a check log only and was not listed in the scoring summary

The annual Field Day event, a competition among portable and mobile stations, is a favorite activity among many hams as a chance to combine radio operating with a campout. The portable antennas may even outdo what many of us can set up at home. If you’ve never attended a Field Day, you might want to mark the fourth Saturday in June and the following Sunday on your calendar. For 2014, that will be June 28 and 29.

Member of the Month

Carl Pockrus, WE7OMG

By Linda Reeder, N7HVF

This month we are featuring Carl Pockrus, WE7OMG. In the 1970s Carl was in the army for four years where he was a communications specialist. He even worked with the Penagon for a couple of years. Carl really wanted to get into amateur radio, but he just couldn't pass that Morse Code, so amateur radio got put on the back burner for many years. A couple of years ago Carl was in a CERT class and he decided it was time to give amateur radio another try. BYU has a “ham in a day” class on Saturdays. Carl passed with flying colors. He obtained his Technician class license and a year later he obtained his General class license.

Carl works for the University of Utah Hospital. Carl has worked for the University of Utah hospital for 11 years. Carl is a Bio-Medical electronic technician. He works on hospital equipment such as cameras, patient monitors, and patient electronic equipment such as CD players.

It was Carl's co-worker, Steve Perry, N7SWP, who gave him an aluminum dual-band J-Pole antenna. Many people wanted to know where he got that antenna and they wanted one of their own, so he began building them. Carl loves building antennas. That is one of his favorite things about amateur radio. He also enjoys talking to people, emergency preparedness, and helping individuals who are interested in getting into amateur radio.

The University of Utah hospital wanted Carl to put one of those antennas on the roof of the hospital. Carl said the University of Utah Hospital has two amateur radio stations and five amateur radio operators. Carl received a request to put an antenna on top of the roof of the fire department in American Fork. There is a picture of him climbing the ladder to install it in last year's December *Microvolt*.

Carl and his wife, Phyllis, have four children, two boys and two girls. Their oldest son, Nick, has his

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Technician license. His call sign is KF7WVD. Nick is attending BYU. Their other son, Matt, is on a mission for the LDS church in the Ukraine. Their daughter, Cara, is attending the Utah Valley University, and the youngest daughter, Camille, is still in high school.

There is an interesting rivalry in this family. Carl graduated from the University of Utah. Carl's wife, Phyllis, graduated from BYU and their children are going to different universities as well. They have a lot of fun with this. Phyllis took the college shirts split them apart and sowed them together, so when the schools are playing against each other they wear these split shirts. They have the flags all ready for which ever school wins.

Carl is a member of UARC and the 76ers. He is one of the net controls on the net which is on every Thursday at 7 P.M. on the 146.76 repeater. The net control operators take turns with each of them having the duty for a month. Carl learned

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about the 76ers when he was scanning the different frequencies. He heard them talking and wanted to join in. Carl also enjoys skiing, fishing and remodeling. He is remodeling the garage to be a family room in his house.

Carl, we wish you the best in your endeavors



Carl Pockrus, WE7OMG “in my favorite position: in front of the TV, talking on '76.”