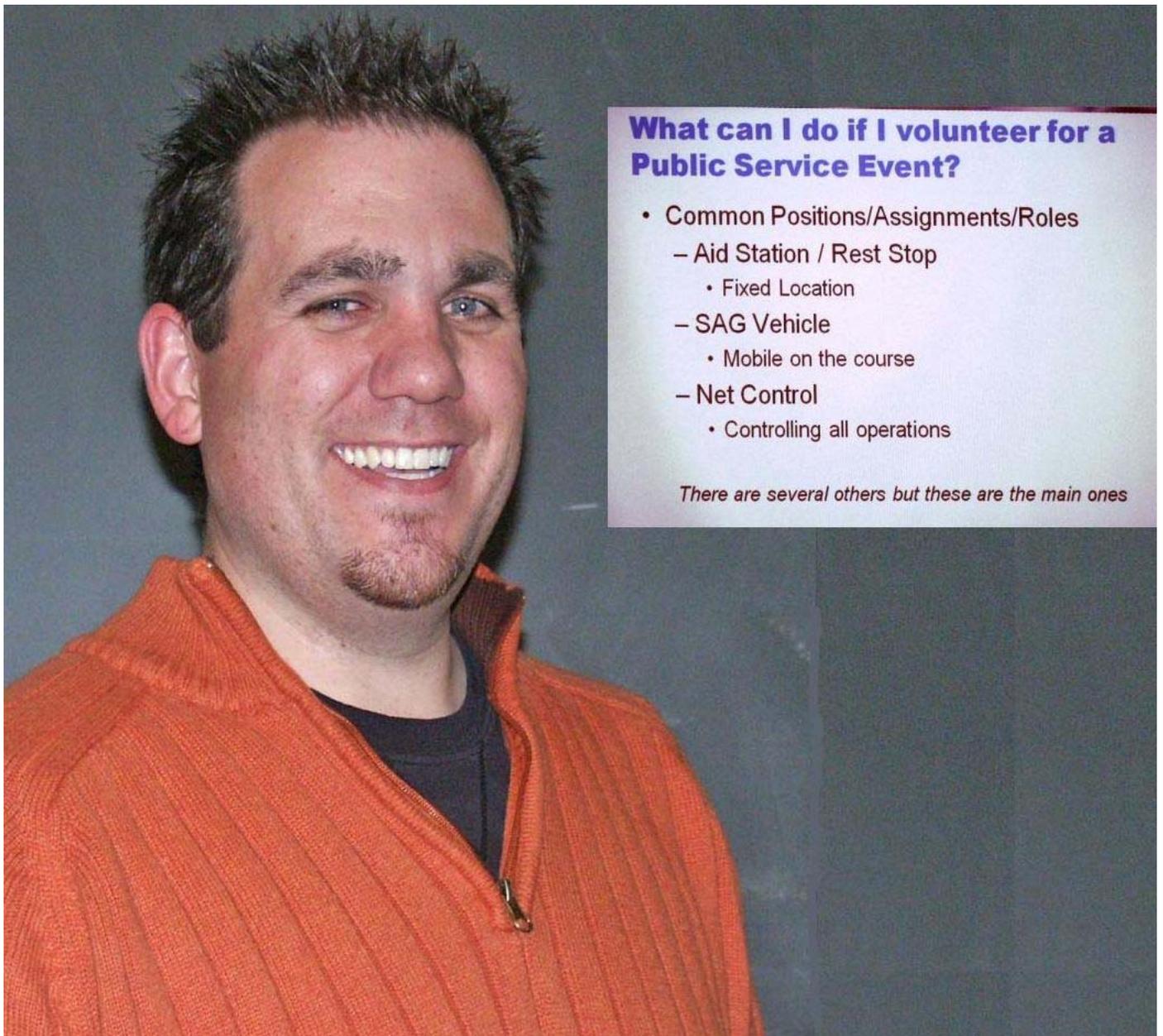


The *Microvolt*

December, 2011



What can I do if I volunteer for a Public Service Event?

- Common Positions/Assignments/Roles
 - Aid Station / Rest Stop
 - Fixed Location
 - SAG Vehicle
 - Mobile on the course
 - Net Control
 - Controlling all operations

There are several others but these are the main ones

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.

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 2011 Board

President: Linda Reeder, N7HVF	801 364-7006
Executive VP: Andrew Madsen, AC7CF	801 419-8378
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: Rick Asper, AC7RA	
Program Chair: Gene Deal, KF7BSF	801 548-5063
Program Chair: Gary Wong, AB1IP	801 582-0906
Imm. Past Pres: John Hardy, K7ALA	

Committee Chairpersons and Members

"Book Lady": Brett Sutherland, N7KG	801 298-5399
Historian: Ron Speirs, K7RLS	801 904-3587
Field Day Chair:	
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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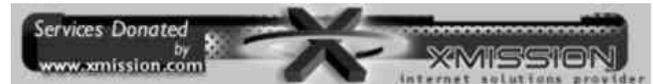
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IRLP Information

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://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



The Microvolt

The Official Publication of the Utah Amateur Radio Club, Salt Lake City, Utah
Volume 54, Issue 11, December 2011

December Meeting: Elections and Something

Thursday, December 8, is the date for the annual UARC election meeting. Come and help us prepare for 2012.

There will also be a program, but at press time we are not sure just what it will be. (We had had one program under consideration, but it was not ready in time.) We are sure, however, that it will be exciting, interesting, relevant, and non-fattening, so you certainly won't want to miss it!

UARC meetings are held on the second Thursday of each month at 7:30 P.M. During fall semester, they are in room 1230 (the "Duke" classroom) of the Warnock Engineering Building at the University of Utah.

Some of our traditional parking on the east side of the building is blocked off for construction, so if you find it full, another recommended parking area is near the southeast corner of the Merrill Engineering Building lot. Walk south along the east side of Merrill, then go in the north door of Warnock. See the map at http://www.xmission.com/~uarc/ablip_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 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 this month (photos by Ron, K7RLS) shows Brett Neilson, KC7IIB, and one of the slides from his presentation at the November meeting about amateur radio help with public service

events. Some members have requested a copy of the slides from Brett's presentation. They are now online in PDF format. Check <http://www.utaharc.org/news> for a link to the file. We appreciate Brett's making this material available.

Officer Elections for 2012

At the November UARC meeting, nominations for 2012 officers were opened to the floor, and nominations made by a nominating committee chaired by Lonnie Oaks, K7LO, were presented. It turned out that one of the people named had not actually been contacted. Another had to withdraw due to a change in employment. Below are the nominations as they stand at this writing. Nominations from the floor will open again at the December meeting just before voting takes place.

President:

*Linda Reeder, N7HVF
Clint Turner, KA7OEI

Executive Vice-President:

*Andrew Madsen, AC7CF

Vice-President:

*Brett Sutherland, N7KG

Secretary:

Troy Davidson, KF7MTE
*Dick Keddington, KD7TDZ

Treasurer:

*Chuck Johnson, WA7JOS

Program Chairpersons:

Chuck Dewitt, W7DTO
Morris Farmer, AD7SR
*Gary Wong, AB1IP

Microvolt Editor:

*Gordon Smith, K7HFV

Assistant Editor:

Mary Alexander, KF7QVL
*Rick Asper, AC7RA

*Incumbent

Candidates' Introductions

As per the bylaws, all the candidates have been invited to write a bit about themselves to help you

get to know who they are.. Here are the ones we have received.

Linda Reeder, N7HVF (for President)

This is N7HVF. I have been in amateur radio for 26 years. I have been a member of UARC from the beginning. I have been Program Chairperson several times and I have been President of UARC for the last two years and have enjoyed it very much.

I am willing to serve again. I like to help UARC in any way that I can. I am always open for new ideas. Remember this is your club. I encourage everyone to get involved. There are so many things that need to be done, such as helping with the UARC Information Net, Field Day and Steak Fry. I am sure the "book lady" could use your help too with jobs such as carrying in the books and helping him set them up and take them down again.

Troy Davidson, KF7MTE (for Secretary)

My name is Troy Davidson, KF7MTE, and I'm running for club Secretary. I've been a ham radio operator for just over a year and hold a Technician license. I am studying for my General license so I can get on the HF bands. I enjoy foxhunting and QRPing. You can usually find me on the club's 146.62 repeater. I enjoy being a member of the club and learning a lot of things from the "Elmers" in the group. Good luck to all nominees!

Dick Keddington, KD7TDZ (for Secretary)

Thanks for the opportunity of serving you as the Club Secretary. I enjoy serving you, and appreciate

your confidence in me. I am willing to continue in this position if you, as a club, re-elect me.

The club Secretary maintains the membership database, prepares *The Microvolt* mailing lists, and performs other duties.

I've been a ham since 2002, and upgraded to General in 2005. It is a great hobby, and I appreciate the friendships it has generated, both on the air and in person. I particularly enjoy UARC Field Day activities, and have a specific interest in emergency radio communications.

A graduate of the University of Utah, I retired after serving for 28 years as a U. S Air Force officer, and a couple of years ago I retired from retail sales.

In addition, I currently serve as Chairman of the Board of AVERT (Association of Volunteer Emergency Response Teams).

Thanks again for your friendship.

Chuck DeWitt, W7DTO (for Program Chairperson)

I obtained my Novice License in June of 1956 while going to High School and working at a local TV repair shop after school and weekends. I attended Illinois College and graduated from Valparaiso Technical Institute, was selected for, and accepted an Electronics Technician position at Dugway Proving Ground in Utah. Then I got married on June 15, 1961 and three days later reported for work at Dugway. From 1961 to 2003, except for two years of military service in the US Army, I worked at Dugway starting as an electronics technician and retiring as the Chief of Test Operation Division. During this entire period I was active in amateur radio.

At present I am an active member in the West Desert Amateur Radio Club, Utah Amateur Radio Club, and the Utah DX Association checking in regularly on the Beehive and Idaho Farm Nets. I

enjoy amateur radio immensely and have some experience operating most of the various operational modes and really enjoy interfacing between amateur radio and computers.

Gordon Smith, K7HFV (for Microvolt Editor)

Hi. I'm Gordon and I have been putting this newsletter together for the last several years. It has filled a number of weekends that otherwise might have been wasted doing homebrew, ragchewing, or fixing repeaters. I don't mind doing the Editor job, but wouldn't be unhappy if someone else were anxious to take it over for awhile.

I first got into amateur radio in 1959 when I was in Junior High School. I got my Extra in the 1970's and became accredited as a volunteer examiner in the 1980's. Amateur radio was enough fun that it helped me decided to go into electronics as a career.

I've been a UARC member since the early sixties and have helped with several of the club's repeater projects.

I would like to find ways to encourage more people to contribute to *The Microvolt*. I think there are many of our members doing interesting things: building interesting projects, working interesting stations, trying new equipment, and finding gear and techniques that work and don't work. I think many members would love to hear about more of them. We can even turn rough accounts into good articles. So consider letting us know what you've been up to.

Mary Alexander, KF7QVL (for Assistant Editor)

I am a new and excited member of our ham community! Field Day this year was so much fun that I got my ticket shortly thereafter, and I enthusiastically advanced to Extra Class in

October. Currently, I am interested in hands-on electronics and have been perfecting my soldering skills.

I recently graduated from the University of Utah with a Bachelor of Arts in Film & Media Arts and a minor in Arts Technology. I have extensive computer and graphic design experience. My past work as an administrative assistant has granted me experience in proofreading, mass printing, and mass mailing. I look forward to helping in any way I can with *The Microvolt*!

What Do the Officers Do?

Here are some brief descriptions of the officers' duties. For the full, official story, check the club Bylaws at:

http://user.xmission.com/~uarc/ab1ip_bylaws.html.

President: Presides at meetings, represents the club to other organizations, appoints special committees, and takes the blame if the other officers don't do their jobs.

Executive Vice-President: Takes over the duties of the President if the President is taken ill, moves away, or is murdered by angry members. Makes sure that Field Day and Steak-Fry take place.

Vice-President: Is next in line of succession to the

presidency after the Executive Vice-President. Is Chairman of the Bylaws Committee.

Secretary: Accepts dues and keeps the membership list. Answers correspondence from angry members who don't get their *Microvolts* or who find their names misspelled.

Treasurer: Maintains the club's checking account and explains to the rest of the Board of Directors why funds are inadequate for proposed projects.

Program Chairpersons: Figure out what to do at the eleven club meetings scheduled each year. Call scheduled presenters a few days before their presentations, overtly to ask if they need help with handouts or audio-visual equipment, covertly to make sure they haven't totally forgotten the commitment.

Editor: For one weekend each month, frantically searches for eight pages of material that might be remotely interesting to UARC members. Learns to spell "amateur."

Assistant Editor: As currently practiced, interfaces with the Post Office; labels, sorts, bundles, and sacks the *Microvolt* copies for mailing. Keeps records required by Post Office for audits and annual reports. Tries to pacify angry post office personnel whenever a government form is found to have an incorrect entry.

FCC Eases 60-Meter Restrictions

On November 18, the FCC released a Report and Order detailing its decision on proposed changes to the rules for the 60-meter (5-MHz) band. Sixty meters is used by amateurs on a secondary basis, with the U.S. Government being the primary user. Consequently, operation is considerably more restricted than on most other HF bands. Instead of being a true "band" of frequencies, 60 meters is just five discreet channels. Until now, the only

mode permitted was upper sideband, and power was restricted to 50 watts.

The new rules are a bit more lenient, but it is very important to realize that the new rules are not yet in effect, and the effective date is not yet known. That date will be 30 days after publication in *The Federal Register*.

The Microvolt December 2011

The new rules essentially grant the requests made by ARRL over five years ago. One of the five channels is replaced by another said to have less government traffic, the power allowed is increased to 100 watts, and CW, PSK-31, and PACTOR-III will now be allowed.

The new channel list will be as follows:

Center Freq. (kHz)	Carrier Freq. (kHz)
5332	5330.5
5348	5346.5
5358.5	5357.0
5373	5371.5
5405	5403.5

The channels are specified in the rules by their center frequencies, while virtually all amateur transceivers read out the frequency of a single-sideband transmission as the (supressed) carrier frequency. Consequently, amateurs should set their carrier frequencies 1.5 kHz lower than the specified center frequencies when using upper

sideband or a digital mode in which the transceiver runs in USB mode. For CW, the carrier should be set to the specified center frequency.

The two new digital modes are specified by their emission designators: 60H0J2B (PSK-31), and 2K80J2B (PACTOR-III). Any other digital codes that fit those designators are also permitted.

The new power limit of 100 watts effective radiated power (ERP) should make it easier for operators to use most current transceivers which generally have an output power of 100 watts. The ERP is referenced to a half-wave dipole, so if operators use antennas with gain over a dipole, they must reduce their transmitting power accordingly. In other words, the transmitted signal may not be stronger than would be the case for 100 watts fed to a dipole.

Because of the shared status of this band, amateurs are encouraged to keep their transmissions short enough that they can detect the use of a channel by a primary user quickly and vacate the channel.

License Examination Schedule

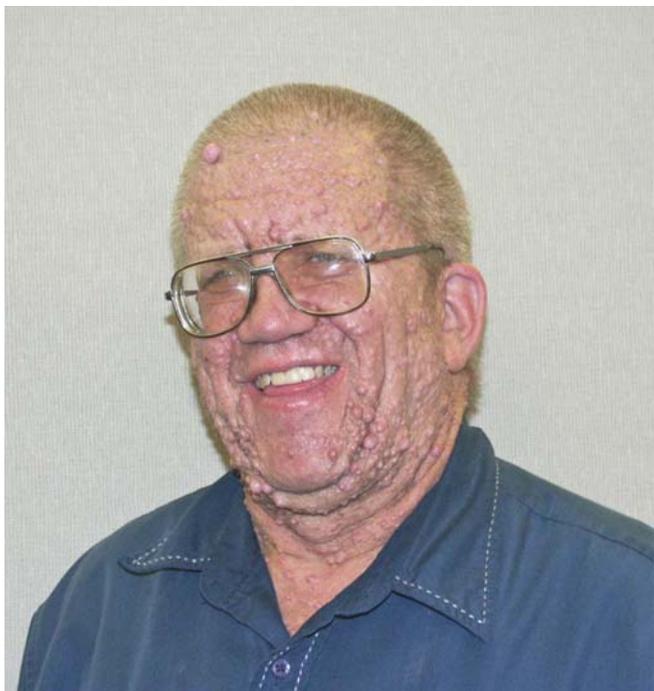
Opportunities to test for new or upgraded amateur licenses

Date	Day	City	Contact Person	Phone
12/10/11	(Sat.)	Logan	V.P. Rasmussen, N7JFG	(435) 770-0630
12/21/11	(Wed.)	Provo	Steve Whitehead, NV7V	(801) 465-3983
<i>(Last Tuesday session in Salt Lake City omitted in December)</i>				
01/18/12	(Wed.)	Provo	Steve Whitehead, NV7V	(801) 465-3983
01/18/12	(Wed.)	St. George ²	Gary O. Zabriskie, N7ARE	(435) 674-2678
01/31/12	(Tues.)	Salt Lake C.	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>

³More information at <http://utaharc.org/Exams>.



(Thanks to Ron, K7RLS, for the photo.)

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, 699 E. South Temple STE 100, Salt Lake City, UT 84102-1282. Periodicals Postage Paid at Salt Lake City, Utah. POSTMASTER: Send Address changes to *The Microvolt*, c/o Dick Keddington, 1783 Woodside Drive, Holladay, UT 84124-1620.

Member of the Month

Chris Thompson, N7ZWG

By Linda Reeder, N7HVF

This month we are featuring Chris Thompson, N7ZWG. Chris has been interested in amateur radio since 1974. In 1974 Chris was living in Fontana, California, and attending high school there. Chris had an electronics teacher who had a ham radio license. It was then that he knew he wanted to get into the hobby. However it wasn't until years later when his family moved to Utah that he received his license. His family moved to Utah in 1977. After moving to Utah, Chris's father, Clifford Wayne Thompson, KB7PBG, met a friend who got him interested in amateur radio. Chris and his father received their Technician licenses together in 1995. In 2005 Chris received his General license at Ruby's Inn at the Utah Hamfest.

Chris and his father attended UARC club meetings together. Chris's father became a silent key in July, 2007. Chris has a brother, Willard Lloyd, and a sister, Elizabeth Anne, but they are not interested in the hobby. Chris's mother, Nancy Lee, KC7YLS, received her Technician license in April of this year. Chris is

now working on getting his Extra Class license. He is attending the Extra class that Ron Speirs, K7RLS, and Morris Farmer, AD7SR, are teaching.

Chris works for a company called Six States Distributors. They work with auto repair and distribute auto parts to different states. They have 19 locations in the western United States. Chris has worked there for 20 years.

Chris loves to talk to different people. He enjoys Field Day, particularly setting up equipment and taking it down. Chris participates in the Davis County Field Day group. Chris is heavily involved in working with emergencies. He is a member of ARES, RACES, and the emergency response team. Chris is also a member of UARC and enjoys attending the meetings. He enjoys camping. Chris is working towards getting equipment so he can get on the low bands.

Chris, we wish you the best in all of your endeavors, especially getting that Extra Class license.