



Photo: Ron Speirs, K7RLS

Charles Clark, N7MLD and Dave Felgar, NJ7A show off some of their VHF/UHF and LASER equipment at the December meeting.

The Microvolt

Periodicals Postage Paid

Please Send Dues to:
UARC
c/o Gregg Smith
7546 S. Uranium Drive
West Jordan, UT 84084-3942

SEND TO

Prologue

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 first Thursday of the month at 7:30 PM in the University of Utah Engineering and Mines Classroom (EMCB) building, Room 101.

Membership: Club membership is open to anyone interested in amateur radio; a current license is not required. Dues are \$15 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 \$15 may obtain a membership without a Microvolt subscription for \$9. Send dues to the Club Secretary: Gregg Smith, K7APW, 7546 S. Uranium Dr., West Jordan, UT 84084-3942. ARRL membership renewals should specify ARRL Club #1602.

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-) has autopatch facilities on both the Orem exchange (covering Santequin to Lehi) and the Salt Lake City exchange (covering Draper to Layton). The 449.10 repeater has autopatch facilities into Salt Lake City only available to UARC members. Due to the volume of traffic, only mobiles should use this autopatch. Autopatch use is open to all visitors to our area and to all club members. Non-members who wish to use the autopatch are encouraged to help with the cost of maintaining the equipment by joining the club.

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.

Publication: The Microvolt is the official publication of the club. Deadline for submissions to the Microvolt is the 10th of each month prior to publication. Submissions by email are preferred (uarc@xmission.com), but other means including diskettes and typewritten submissions can be mailed directly to: Tom Schaefer, 11678 Littler Rd., Sandy, UT 84092. All submissions are welcome but what is printed and how it is edited are the responsibility of the Editor and the UARC board. Reprints are allowed with proper credits to *The Microvolt*, UARC, and authors. Changes in mailing address should be communicated to the Club Secretary: Gregg Smith, 7546 S. Uranium Dr., West Jordan, UT, 84084-3942.

UARC 2003 Board

President: Brett Sutherland, N7KG	298-5399
Executive VP: Laurie "Mac" McCreary, K7LMM	571-5759
Vice Pres: Gordon Smith, K7HFV	582-2438
Secretary: Gregg Smith, K7APW	255-0344
Treasurer: Chuck Johnson, WA7JOS	268-0153
Microvolt Editor: Tom Schaefer, NY4I	501-0899
Asst. Microvolt Editor: Dale Sargent, KD7NMJ	(435)640-4324
Program Chair: Linda Reeder, N7HVF	364-7006
Program Chair Rulon Holyoak, AC7GR	968-3698
Imm. Past Pres: Mark Richardson, W7HPW	465-7650

Committee Chairpersons and Members

"Book Lady": Fred Desmet, KI7KM	485-9245
Historian: Ron Speirs, K7RLS	968-4614
Field Day Chair: Open	
Club Trustee: Tom Schaefer, NY4I	501-0899
Engineer: Randy Finch, K7SL	277-7135
ATV Engineer: Clint Turner, KA7OEI	566-4497
Board Liaison & Autopatch Engineer: Gordon Smith, K7HFV	582-2438
Provo Autopatch Host & ATV Engineer: Dale Jarvis, WB7FID	224-3405
Repeater Monitor: Allen Wright, N7QFI	268-8482

Contents

Prologue.....	2
UARC 2003 Board.....	2
QST From the Prez.....	3
February Meeting.....	4
Notes from the Editor.....	4
UARC Elects New Officers for 2003.....	6
Blast from the (more recent) past.....	7
December Meeting.....	8
Upcoming Testing Sessions.....	8

For late breaking news listen to the UARC Information Net Sundays at 21:00 on 146.62 or set your browser to:

www.xmission.com/~uarc/announce.html 1

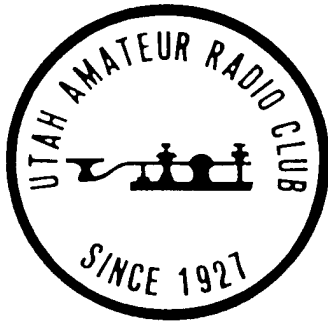
We are grateful to the management of XMission, our Internet Service Provider (ISP), for the donation of this Web-Page service. 1



For account information go to:
<http://www.xmission.com/>
Or call 801 539-0852.1

The Microvolt

The Official Publication of the Utah Amateur Radio Club, Salt Lake City, Utah
Volume 47, Issue 1, January 2003



QST From the Prez

Brett Sutherland, N7KG

Volunteering in the club has been a wonderful experience for me. It is how I have made some of my very best friends. At the beginning of this year, I would like to thank all of you for your volunteer efforts in ham radio. Involvement differs from one person to the next. Life's constraints make us choose how we spend our time. A few years ago I was heavily obligated in scouting, which directly conflicted with my involvement in UARC. I patiently bided my time until I could expend a greater effort in radio.

When you hear a new ham on air, call them and introduce yourself. Invite them to come to a meeting so that you can shake hands with them

I would like to challenge all of you to find a way to volunteer this year. Perhaps you could learn how to be net control for the UARC information net. Help is always needed for Field Day, and Steak Fry. Or how about organizing a contesting group within the club? Do you like to write the occasional article, but don't want to be Microvolt Editor? Then pick a topic of interest to you and the membership at large and pen an article. We always need help setting up the meeting space. There are a myriad of ways you can help, and in helping; grow in the hobby. If you would like to volunteer, you can contact me, or any of the board members. We will be happy to point you in the right direction.

On club membership – We have the largest club in the state, with a tremendous legacy. Alan Seyboldt wrote a great

summary history on the 75 years of UARC in last months issue. I encourage you to read it. For the first thirty years, we survived with a very few, but dedicated, members. Over the last decade, our membership has peaked, and begun to wane again. While our numbers are still ten times what they were in our humble beginnings, we are in need of new members. New members are the lifeblood of any organization. We have a significant number of new hams licensed on the Wasatch front every month. Many are brought into the hobby through emergency services, but never end up members of UARC, or any other club. If they are to become lifetime hams, they need to develop a social life involving other hams. UARC is a great place to do just that. These new hams need to be welcomed into the hobby. When you hear a new ham on air, call them and introduce yourself. Invite them to come to a meeting so that you can shake hands with them. If this is the only way you volunteer this year, it will be a great service to your fellow hams.

UARC reflector – Did you know we have a Yahoo Group reflector for the club? It is a great place to ask questions, and generally keep up with what is going on in the local ham community. You can join the group at <http://groups.yahoo.com/group/UtahAmateurRadioClub/>

I would like to raise a few flags, and see who of you will rally 'round. As mentioned, we are a significant club. Given our membership, we should be participating in every aspect of the hobby (minus the QRM'ing). With that in mind, here are a few areas that we could explore:

ARISS – Amateur Radio on the International Space Station. You could help schools get exposed to the hobby by talking to the space station with them.

Big Project – ARRL President Jim Haynie pioneered the opportunity to put stations in local schools. We don't have any of these in Utah now, but wouldn't it be great if we did?

Kids Day – Give the kids a "quick view" of contacts. Help them get on the air.

Remote linking – We have tons of repeaters in the valley. What we don't have is a remote link to an HF or VHF station on a mountaintop. Wouldn't it be great?

RFI – Has always been a problem, and there are new challenges. Perhaps someone can help others on the path to solving their RFI problems.

Elmering – Have a topic you know a lot about? Elmer someone else. Pass **it** on, before **you** pass on!

DF'ing – Whether detecting RFI, malicious interference or DF contesting, we could use someone to head this up.

Each of the board members has specific responsibilities. We need you to help execute the activities of the club. Think about it, and see if you would like to spearhead one of these efforts. You don't need to know all about it, just be willing to organize it and see it to fruition. Perhaps there is something new that you know about and would like some help implementing. Let us know.

Let's have our best year ever!

73' de N7KG

February Meeting

The February 2003 meeting will feature Tom Schiller, N6BT. Tom has spoken at UARC before to one of our most well-received meetings ever! Tom is the owner of Force 12 Antennas and is always entertaining with the information he provides. The meeting will be on February 6th, 2003 at the University of Utah. The meetings are now being held in Room 101 of the Engineering/Mines Classroom Building (EMCB) on the University of Utah campus.

Of course, even in the new location, we continue to have all the "standard" features of UARC meetings including a chance to check out the latest ARRL books from Fred the book lady, eyeball QSOs, and the chance to join ARRL or UARC. Fred is now setting up in a more convenient location, right at the front of the meeting room. Finally, there will be the "meetings after the meeting" which provide a chance to continue the eyeball QSOs over pizza or other gastronomic delights.

That's Thursday evening, February 6th at 7:30 PM, at the University of Utah Campus, EMCB-101.

Also, for those of you with 802.11 (WiFi) access on your laptop or PDA, Gary Crum sets up an access point. This is always a fun technology to try and it works quite well.

Notes from the Editor

Tom Schaefer, NY4I

Hi – and thanks for the chance to be your new editor. I had a few items to discuss and I thought it would be good to do it here. First, this month's Microvolt is quite late. There are several reasons for that but the only good one is I decided to change the format from using Corel Draw (which not many of us have) to doing it in Microsoft Word (which we all have). I have tried to keep the format similar for now, but you will notice some changes in the future. I know Word much better than I know Corel Draw!

Second, I need articles for publication. If just five people reading this would write something in an email describing their favorite amateur radio activity, I would have great things to write about. If you are not a writer, that is fine. Write an email, a letter, or even call me and I will ask enough questions to write an article. I can help write what you need to say if you need some help with the words. The content is what is important. Some ideas are: How have you interfaced computers in your shack. Or, are you using IRLP or eLink and what do you like about it. Do you operate from an apartment or condo and what challenges have you had to overcome. The sky is the limit. But, you must take the first step. Please let me know what you are doing that is interesting and we can tell the rest of the club about it.

Member of the Month

Linda Reeder, N7HVF



This month we are featuring Stewart Manwill (W7JJU). Stewart and his brother Lee (W7IMD) owned the Manwill Supply store you read about in the December issue of the Microvolt regarding the 75 years of UARC. Stewart and his wife Jean have 6 children -- 4 girls and 2 boys. Stewart was first licensed in August of 1946. Back in those days it was known as a class b license. He had an advanced class license until 1998 and he let it expire and now he is only a tech. Stewart is planning on getting his general and then his extra. During World War II, Stewart was a radio operator in a flying high octane gasoline air transport command. Stewart was a navigator. That is how he got interested in amateur radio. Stewart received the Distinguished Flying Cross decoration and the air medal, because of the treacherous weather they had to fly in. In fact, Stewart thought his very first trip was going to be his last. They were flying on a B24 converted for hauling huge gasoline tanks. One of the engines quit. Since the engines powered the hydraulics, they could not open the bomb bay doors. The pilot pressed 2 emergency buttons and the huge gasoline tanks went down and ripped the doors off of the plane. The flight engineer had to crank the landing gear down and they had to take everything through the bomb bay doors. The indicator light didn't show that the landing gear was cranked down and one of the engines caught fire. They had dropped through the bomb bay doors. When they got 500 feet away the air plane exploded. Another hair-raising trip was on a C54 loaded with 50 gallon drums of gas. They had them tied down so they couldn't move around. They left the gasoline in China and were flying back to India. They were flying through a thunder storm and the compass was not working because of the lightning. The lightning just barely touched the wings of the plane. They got lost and didn't know where they were. Stewart got on the radio and made a mayday call which is a voice distress signal. A British ground station heard his call and they told him to keep talking and they would alert another air-ground station. When they got positioned on it they were 50 miles from Mount Everest flying at 25,000 feet (Everest is currently 29,035 feet – see the problem – Ed). They told

them to fly directly south to an air base station in the Assam Valley which is in northern India. They landed there with only 10 minutes of fuel to spare.

Stewart is a member of UARC and his favorite thing about amateur radio is DXing. That is why he is working so hard on upgrading. He tells me that they had a triband beam antenna on a tower next to the Manwill supply store. One day they made a contact with Australia. There was another time when he was driving around in Wells, Nevada and he had a QSO with a gentleman who was in Tokyo, Japan on a Navy hospital ship. When he found out where Stewart was he asked Stewart if he could give his father a message. Stewart stopped at this gas station and asked the guy there if he knew this gentleman and he said, "yes, that is my son". So he got to talk to his son on the radio. They talked for 2 hours. Stewart also told me that he used to be the transmitter engineer at KALL radio. Well, one night he was out in the car talking on his radio. He received a call on the phone telling him he better get off because everything he was saying was on KALL radio. Stewart said he never did that again while he was at work.

Stewart, we wish you the best in getting your upgrade.

73,

Linda

Communication Products Amateur Radio Sales

7946 S. State St., Midvale, Ut.
801-567-9944

**COME AND SEE
SALT LAKE'S "NEW"
HAM RADIO STORE**

**NEW OWNER, NEW HOURS
EXPANDED INVENTORY**

FRIENDLY SERVICE

KENWOOD, YAESU & ICOM

<http://www.comm-pute.com>

Bob Wood W7OAD, UARC Member

UARC Elects New Officers for 2003



At the December 2002 meeting, UARC elected a new group of officers for the 2003 year. Some faces are new to the board, some are old hands. In any event, please welcome each person to the board and if you want something addressed by the board, please do not hesitate to ask. The 2003 officers are as follows:

President: Brett Sutherland, N7KG	Executive VP: Laurie "Mac" McCreary, K7LMM
Vice President: Gordon Smith, K7HFV	Secretary: Gregg Smith, K7APW
Treasurer: Chuck Johnson, WA7JOS	Microvolt Editor: Tom Schaefer, NY4I
Program Chair: Linda Reeder, N7HVF	Program Chair: Rulon Holyoak, AC7GR
Asst. Microvolt Ed. Dale Sargent, KD7NMJ	Imm. Past Pres.: Mark Richardson, W7HPW

1840 Moormont Dr.
Salt Lake City, Utah, 84117.

JAN 19 1970

District Engineer-in-Charge
5024 New Customhouse
19th St., Denver, Colorado 80202.

Dear Sir;

This is to notify your office that the Utah Amateur Radio Club has an official Television Interference Committee (TVI) and has notified the local radio and TV stations of this. Chairman of the TVI Committee is;

Dr. Gaylord A. Buchanan W7EVK
1485 So. Sneddon Dr.
Sandy Utah 84070.

Mr. Max Berggraaf WA7AIA, is also on the Committee, and Mr. Irv Greene and Mr. Pat Buller have offered technical advise in the areas of their specialties.

The Utah Amateur Radio Club would also like to request that your office notify us of forthcoming examinations to amateurs, and we will publish that information in the club paper, Microvolt, and distribut^e the information throughout this area. Please send this information to;

Gordon Smith K7HFV Editor Microvolt
632 University Ave., Salt Lake City, Utah, 84102.

Could you also send information on how to change the Club Trustee.

yours truly,

Leigh Cornelius WA7ION
Acting Secretary

Blast from the (more recent) past

Here is a more recent blast from 1970. It seems UARC created an interference committee. One can presume the committee's job was to prevent interference rather than create it. You can also see a familiar name as the then Microvolt editor. What hasn't Gordon done for this club?

December Meeting

Tom Schaefer, NY4I

At the December meeting, UARC elected its officers. But as Dick Abbott, K7MZ, pointed out, that took only 21 seconds to do. So not wanting to bore everyone with the ramblings of the newly elected officers, we also had a short program regarding VHF and UHF contesting and DXing. Charles Clark, N7MLD and Dave Felgar, NJ7A showed us their equipment for operating the higher frequencies including Microwaves, and 300 THz, Dave also went over DXing on VHF and UHF and a discussion of grid squares.



Some equipment presented at the meeting

Upcoming Testing Sessions

Date	Location	Contact
1/8/2003	Mantua	Jim Jones (435) 730-1311
1/15/2003	Provo	Steve Whitehead 465-3983
1/15/2003	St. George	Ronald Sappington (435) 673-4552
1/28/2003	Salt Lake	Eugene McWherter 484-6355
1/31/2003	Roosevelt	R. Chandler Fisher (435) 722-5440
2/1/2003	Salt Lake	Gordon Smith 582-2438
2/12/2003	Mantua	Jim Jones (435) 730-1311



Charles N7MLD with a homebrew 6 meter antenna.

