

Antennas, Antennas, and more Antennas!



Photoby Ron Speirs, KC7MYS

At the May UARC meeting, Tom Schiller (N6BT) of Force 12 Antennas talks about...antennas!

Volume XLV Issue 6, June 2001



The MICROVOLT

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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 Infinia Medical Building located at 1255 East 3900 South in Holladay, across the street from St. Marks Hospital.

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. 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 the 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 Santaquin to Lehi) and the Salt Lake City exchange (covering Draper to Layton). The 449.10 repeater has autopatch facilities available to UARC members into Salt Lake City only. 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 information, testing, meeting information, and membership information. If no one answers, leave your name, telephone number and a short message.

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, NY4I, 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. □

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For net times and frequencies, testing details and 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 □

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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Volume XLV, Issue 6 June 2001



QST From the Prez

May's meeting hit the spot for those who have an interest in being heard in the world. Tom Schiller, N6BT, the President of Force 12 Antennas gave a great presentation on the basics of what to look for in antennas. He talked about the pro's and con's of horizontal and vertical antennas. One part I found particularly interesting was the importance of take-off angle in making good DX contacts. I had always heard that the higher, the better, in mounting antennas. It wasn't until Tom explained what portion of the lobe was really making the contact possible that I realized how important height above ground was to improving your signal.

His discussion and slides on his light bulb antenna project were both amusing as well as amazing. He made 41 contacts and worked 28 DX countries during the ARRL DX CW contest on a 150 watt light bulb. You may have seen his article on his light globe antenna (The Illuminator) in *QST* last July, page 47. Tom talked about how everything "works", even a light bulb, but what you really need to determine about your antenna is its performance envelope. He talked about some of the new designs that are coming out for vertical antennas, and how well they perform near salt water. Tom loaned vertical antennas to the DXpedition that Darryl Hazelgren, AF7O, made to the Spratly Islands off the northwest coast of Northern Borneo. Their signal was really great into Salt Lake City. Maybe the club ought to try a field day with phased verticals on the shores of the Great Salt Lake - there is certainly enough salt in that water.

Speaking of field day, things are shaping up for a great one. The club has received its group permit from the Forest Service, and the rest is following along. Lonnie Oaks,

K7LO, has agreed to loan us his GP medium tent again this year which was a great addition to field day last year. Field Day Chairman, Gary Openshaw, KC7AWU, has new hams involved in learning how to conduct a field day. Many new hams are shouldering major responsibilities at this field day. Gary, being the elmer he is, is providing field day veterans to help in the learning process. If you want to get the most out of your club membership, get involved in field day. It is a great way to meet new hams, renew old acquaintances, enjoy the camaraderie, and learn how to be a better ham operator - who knows you may make a contact with someone using a light globe for an antenna!

The June meeting will focus on field day. For those of you have never been to a field day, or don't know what it is, be sure to be at the meeting. Gary assures me you will be up to speed on what you can expect when you get to the Payson Lakes site. Gordon Smith, K7HFV, is updating his famous - or is it infamous - slide presentation, and you won't want to miss his "rules and corollaries" for field day.

Eugene Christensen, KC7CSE, has donated a dual-band Yaesu FT-470 HT to be given to a club member who is 15 years old or younger if they are the winner of the drawing at the June meeting. The parents of the lucky winner also will be happy because they will probably get their HT back! Please, no face-lifts for you older folks, we will be checking I.D.'s! Seriously though, thanks to Eugene for his generous gift!

73 Dick, K7MZ





Photoby Ron Speirs. KC7MYS

Featured Member of the Month

This month we are featuring Diane Wiscombe KD7BYX. Diane received her technician license three years ago. However, she has been exposed to amateur radio for 20 years, because her husband, Garth KA7MHN; got in to the hobby shortly after they were married. Diane said that it seemed like the different clubs would always have them do things together as a couple. They have been involved in ERRS, ARES and UARC. Field day has become a family tradition in their house. They have attended most of the UARC field day activities. She finally decided that since she is participating in these ham radio activities she better get her license, so she did!

Diane never thought she would ever talk on the radio, let alone teach a class. Diane and Carol McWherter KC7LLW taught the electrical principles portion of a recent amateur radio class held this year. Diane observed Garth during a class he had taught and feels this helped her to be able to teach a class as well. She said that the women's

class encouraged her to study and upgrade to general. She also said that this class gave her a little more courage to talk on the radio.

The thing that Diane loves the most about amateur radio is the people. It is like belonging to a warm community. She really appreciates how the amateur community has embraced her family with so much kindness and friendship. She says that in this hobby you get to be involved in a variety of activities.

Diane and her husband Garth have four children: three girls and one boy. Her 14 year old daughter Sara is now KD7MYX. Diane's 18 year old daughter also wanted to take the class but her college classes conflicted -- so she is going to take it this fall. Diane is a part-time hair stylist at Super Cuts. Diane, we appreciate you and all of the other women who helped to make this class so successful. We wish you the best in all of your endeavors.

73, Linda Reeder, N7HVF



Photoby Ron Speirs. KC7MYS

June 2001 Meeting

One of the most popular events in UARC's calendar each year is its entry in the national Field Day contest. Field Day will be June 23 and 24. In addition, our regular June meeting, to be held Thursday, June 7, will be devoted to Field Day plans and memories.

We will have slides and stories from past Field Days as well as plans and tips for the one coming up. This is a great chance for those who have never been to a Field Day to find out what it's all about, for the veterans to reminisce, and for those who avoid Field Day to recall why.

Find out how you can get ready for Field Day, what jobs we still need volunteers for, and why so many come out each year to combine a campout with ham radio. Also, for more information on Field Day and UARC's current plans, go to

<http://www.xmission.com/~uarc/announce1.html#fd01>.

The meeting will be Thursday, June 7, at 7:30 P.M. .If you're new, check out the meeting location

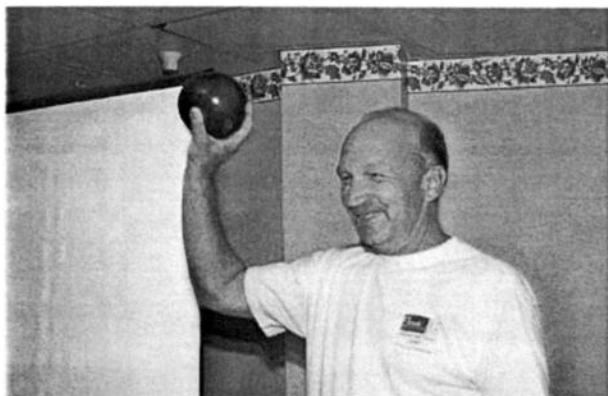
details.

Of course there will be the "standard" features of monthly meetings as well:

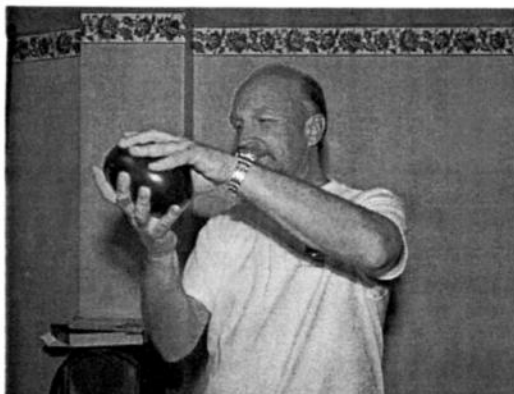
Availability of ARRL books from Fred, the "book lady";

- A chance to sign up for badges, hats, and jackets;
- Just before the meeting -- "Show and Tell Time" to show off your newest homebrew project;
- The "Elmer Hour," a chance, after the meeting, to get your questions answered by those who have been in the hobby a while; and
- The "Meeting(s) after the meeting": A chance to enjoy pizza or other gastronomic delights with other hams.

Gordon, K7HFV □



Photoby Ron Speirs. KC7MYS



Photoby Ron Speirs. KC7MYS

More pictures of Tom, N6BT, demonstrating something (OK, what is that thing?) at the May UARC meeting.

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Bob Wood W7OAD, UARC Member

UARC Steak Fry

The 2001 UARC Steakfry will be held again this year at the Spruces (Group area 7) in Big Cottonwood Canyon. The date is July 21, 2001. Tickets can be purchased from the club secretary, Gregg Smith at the UARC meeting or at the address on the front of the Microvolt. Tickets are: Members: \$3, Non-members: \$10, and children: \$4. As always, car pooling is encouraged.

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2001 UARC Field Day

June 22rd - 24th, 2001

Just past Payson Lakes Campground
Mt. Nebo Scenic Loop, Payson, Utah

All amateurs are welcome to attend the annual UARC field day. We will be setting up HF, VHF, and satellite stations to work hams from all over the US.

Setup begins at noon on Friday June 22rd. The operating event starts at Noon on Saturday June 23th and goes until Noon on the 24th. Jerry Bennion is back to bring us goodies on Saturday. As in years past, please bring a dish to share.

So, how to get there? Go south on I-15 (approximately 65 miles from Salt Lake City), get off at the Payson exit (# 254), and go south into town (see map of Payson). Watch for the Mt. Nebo Loop signs (brown scenic loop sign). Turn left at the stop light in the center of town (you are now headed east) then turn right (head south again) by the old school with the odd playground equipment. Keep going up the winding canyon (you'll probably lose the 146.76 and 146.62 repeaters somewhere in here). Just 1/2 mile past the turnoff for

The improved Forest Service Payson Lakes Campground (right side) will be another turnoff (left side) across the highway from the Forest Service Guard Station access road. We will have a sign here to guide you to our meadow (only a couple of hundred yards off the main road).

You are welcome to choose your spot, first-come, first-served. We generally circle the wagons around the main antennas, operating positions and the generators.

Talk-in will be on 146.62 until you get close (up and out of the canyon) and then on 146.54 simplex.

We hope to see you there.

Tom, NY4I□



Field Day Pins

Field Day 2001 pins now shipping: Field Day participation pins are available and shipping! ARRL To "earn" a pin, all you need to do is participate in Field Day. There is no minimum number of contacts to achieve or ARRL sections to work. The pin is for anyone active in helping to make Field Day happen -- from the set-up crew and on-the-air operators to the covered-dish organizers and generator crew. Field Day pins are \$5 each. Clubs and groups are encouraged to purchase their pins together. Call 1-888-277-5289 to order.

Examination Schedule for June

06/02/2001 (Sat.) Salt Lake City
Contact: Gordon Smith, K7HFV
Phone: 582-2438

06/09/2001 (Sat.) Logan
Contact: Clyde A. Best, AC7KN
Phone: (435) 563-9492

06/13/2001 (Wed.) Mantua
Contact: Jim Jones, KJ7VO
Phone (435) 723-1947

06/20/2001 (Wed.) Provo
Contact: Steve Whitehead, NV7V
Phone: H 465-3983

06/26/2001 * (Tues.) Salt Lake City
Contact: Eugene McWherter, N7OVT
Phone: 484-6355

07/05/2001 (Thu.) Farmington
Contact: Marc Uhrey, AB7PL
Phone:(H) 771-0105 (W) 536-4782

*Only Technician elements (1 and 2) given at this session.

For more detail either call the contact or checkout the information on our webpage
<http://www.xmission.com/~uarc> □

Operation On Target 2001

On July 21st, 2001, the Boy Scouts from most of the states in the Western US will again be out on the mountains flashing mirrors at each other. Hams from UARC have participated in this event consistently over the years and the Scouts could use more ham help again. To make targeting other teams easier, it helps to have a ham on the mountain tops with the scout teams to coordinate with other teams. To find out more information or to sign-up, please go to the OnTarget website at www.ontargetbsa.org.

The following is a brief description of Operation OnTarget taken from their website:

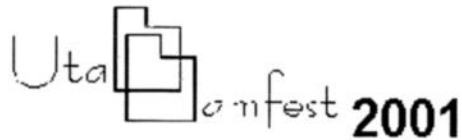
ON TARGET is a national Venturing & Varsity Scout high adventure activity. Scout teams across the country will choose mountain peaks to climb and from there they will use mirrors to signal each other. They will also talk to each other with ham radios or cell phones, creating a link between them and other teams that are participating. They then plot these contacts on a map.

ON TARGET provides your team with an activity as easy and relaxing as setting mirrors up in a park or a parking lot (with a bucket of chicken for lunch) to signal the nearby mountain tops - or as strenuous as a week-long wilderness excursion to reach a mountain peak no one has ever signaled from before, topped off with a Sunday worship service in God's great outdoors. **ON TARGET** is remarkably flexible. It can be tailored to fit every teams needs, resources, and demands.

ON TARGET can be as difficult or as effortless as you and your team make it. You can drive, ride an elevator to the top of a tall building, walk, hike, ride mountain bikes, ride horses, do a technical climb with ropes, or rent a helicopter to get to your chosen site.

ON TARGET is: Advancement, Service, Special Programs & Events, High Adventure, and Personal Development. It fits all or part of 37 different merit badges. Service projects are everywhere. Make a movie or slide show. **ON TARGET** is high adventure, and finally, no one can participate without developing personally.





ARRL ROCKY MOUNTAIN DIVISION CONVENTION

Ruby's Inn - Bryce, Utah

July 13,14,15 2001 (Friday, Saturday & Sunday)

Ruby's Inn - Bryce, Utah (1 mile north of Bryce Canyon)

Visit the following Web sites for more details: www.utahhamfest.org, www.RubysInn.com
 Mark your Calendars now. Publish this flyer in your Newsletters. Announce at Club meetings.

Special Guest and Breakfast Keynote Speaker Riley Hollingsworth, K4ZDH – FCC Special Counsel for Amateur Radio Enforcement Special Guest Rosalie White, K1STO – Manager ARRL Field & Educational Services	
Activities Include: BBQ Cookout / Eyeball QSO Party Dutch Oven Dinner Breakfast Banquet Dealers Outside Swap Meet Area Free (Bring your own table) Seminars and Forums Women's and Children's Events Contests: CW & QLF Mobile Installation, Transformer Toss (a new method) Transmitter Hunts (a new challenge) Prize Drawings Wouff Hong HF Special Event Station VE Amateur License Exams (Pre-Registration Required) Contact John Mabey, W7CWK - w7cwk@arrl.net	Accommodations: Ruby's Inn (Special Rates prior to June 7) 2 Queen Beds \$70 Pool Side \$90 Lodge across street \$50 Contact: Keith in Group Sales Call: 1-435-834-5341 Ext. 7222 Ask for Special Utah Hamfest Room Rates RV/Campground: Full Hookups Start @ \$25.00 + Tax Electric & Water Start @ \$22.00 + Tax Tent Spaces Start @ \$15.50 + Tax Teepee Rental Start @ \$22.00 + Tax Call: 1-435-834-5301 Fax 1-435-834-5481
Grand Prize: Yaesu FT-100 160m - 70cm All Mode Transceiver Pre-Registration Prize: ICOM IC-207 2m/70cm Dual Band Mobile	
Registration Information: Mel Parkes, AC7CP – ac7cp@arrl.org Before June 7th: Adult (18 and over) \$7.00, Youth (17 & Under) \$3.00 (No mail-ins after June 7, 2001) At the Door: Adult \$10 and Youth \$5.00	

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Number of Adults:	X	\$7 / \$10	=	\$ _____
Number of Youth (17 & under):	X	\$3 / \$5	=	\$ _____
(Youth registrations eligible for youth prizes only)				
Friday BBQ Cookout / Eyeball QSO Party:	X	\$6	=	\$ _____
Saturday Dutch Oven Dinner	X	\$10	=	\$ _____
Sunday Breakfast Buffet:	X	\$9	=	\$ _____
				Total = \$ _____

Names of Additional Attendees:

Call sign: _____
 Call sign: _____
 Call sign: _____
 Call sign: _____

Must have names and call signs (if applicable) of all registered attendees.

Check or Money orders Payable to:

Utah Hamfest
 PO Box 382
 Bountiful, Utah 84011-0382