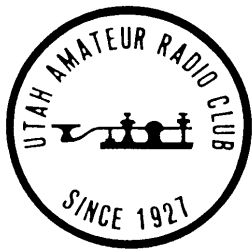




The club met in a new classroom for the June meeting in the Warnock building just to the east of the Engineering and Mines building. Gordon, K7HFV, showed the club his famous Field Day slide show program. Ron, K7RJ, explained how to make a contact with other stations on Field Day. Dale, WJ7L, showed a video of the Owens Valley Radio Observatory.



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The Microvolt

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Holladay, UT 84124-1632

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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 University of Utah Engineering and Mines Classroom (EMCB) building, Room 103.

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, 1933 Woodside Drive, Holladay, UT 84124-1632. 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 for Provo which are currently disabled due to abuse and for Salt Lake which is in need of reworking to be compatible with IRLP

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: Telvin Mills, 6864 Beargrass Rd., West Jordan, UT 84084. 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: Dick Keddington, 1933 Woodside Drive, Holladay, UT, 84124-1632.

UARC 2007 Board

President: John Brewer, N7MFQ	(435) 837-5646
Executive: VP: John Hays, K7VE	446-1899
Vice Pres: Gordon Smith, K7HFV	582-2438
Secretary: Dick Keddington, KD7TDZ	274-9638
Treasurer: Chuck Johnson, WA7JOS	268-0153
<i>Microvolt</i> Editor: Telvin Mills, KB6BYU	968-5089
Asst. <i>Microvolt</i> Editor: Bob Rollins, WB7DPA	942-2638
Program Chair: Dale Heisler, WJ7L	278-6458
Program Chair: Linda Reeder, N7HVF	364-7006
Imm. Past Pres: Roy Eichelberger, W7ROY	571-2447

Committee Chairpersons and Members

"Book Lady": Fred Desmet, KI7KM	485-9245
Historian: Ron Speirs, K7RLS	968-4614
Field Day Chair: Andrew Madsen, AC7CF	466-0744
Steak Fry Chair: Jed Petrovich, AD7KG	566-6277
Club Trustee: Brett Sutherland, N7KG	298-5399
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

IRLP Information

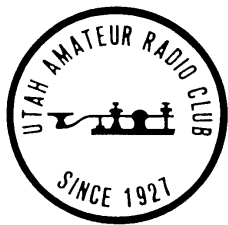
For information on using the club's IRLP node on the 146.76 repeater, check <http://www.utaharc.org/irlp>.

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





Utah Amateur Radio Club

The Microvolt

Volume 50, Issue 7

July 2007

Owens Valley Radio Observatory



At the June meeting, Dale, WJ7L, showed the club a video of the San Bernadino Microwave Society using a 40-meter dish antenna to do some Earth-Moon-Earth contacts.

The project utilizes Owens Valley Radio Observatory's 40-meter antenna. This antenna was commissioned in 1967 and despite its 130 foot diameter, has a very good surface accuracy for use up into X-band. F/D is about 0.4 and the feed is located at prime focus. The focal length is about 51 feet.

The antenna gain at 10 GHz is a whopping 71 dB! At 1296 MHz, it is a more modest 54 dB. We have successfully received echoes on CW and SSB on 10 GHz, using only two Watts of transmit power. Their website for more information is: <http://www.ham-radio.com/sbms>.

Inside this issue:

Prologue.....	2
UARC 2007 Board.....	2
Owens Valley Radio Observatory.....	3
Member of the Month.....	4
Pictures of Field Day 2007—Payson Lakes.....	5
Pictures of Field Day 2007—Payson Lakes.....	6
Pictures of Field Day 2007—Payson Lakes.....	7
Pictures of Field Day 2007—Payson Lakes.....	8
Exam Schedule.....	8

Special points of interest:

- ♦ *Next UARC Meeting September 6th*
- ♦ *Steak Fry, July 14th at the Spruces Camp-ground*
- ♦ *WIMU—August 3—5*



AMATEUR RADIO



Member of the Month

This month we are featuring Isaac Bigham, KE7KNO. Isaac is a brand new ham. He received his Technician license in January 2007.

Isaac is very active in the Boy Scouts. This is where he learned about amateur radio through his friend Michael House, KE7MLT. Michael showed Isaac his ham equipment and Isaac was intrigued. Michael convinced Isaac to take Ron Speirs', K7RLS, class and he did. Isaac is interested in electronics. He could spend hours building antennas and studying telescopes and learning how they work. One day Isaac was talking to Gordon Smith, K7HFV, on the 146.62 repeater about interfacing two dipole antennas together.

Isaac's favorite subjects in school are science and math. Isaac is 12 years old and attends a private school. Isaac will be in the 7th grade this next school year. He attends the Benjamin Franklin Academy.

There are seven children in Isaac's family, four brothers and two sisters. Isaac is the only ham in his family, but maybe someday some of his family will be. Isaac would like to see more of his scout group get

into the hobby.

Donald G. Mitchell, KD7ICU, gave Isaac an HTX 202 handheld radio.

Isaac's first contact was

James Harvey, W7YV, whose son Michael, KE7KNX, was in the same ham radio class that Isaac was in. Isaac sent Michael a QSL card but the dog ate it, so Isaac sent him another one. Isaac has made some real nice QSL cards. Bryant J. Luker, WB7QBC, gave Isaac a low band rig. Now Isaac has a complete ham station and is working very hard on upgrading.

Isaac has good operating skills. He really knows how to help the newcomers who don't know quite what to say when they get on the radio. He asks good questions that gets them to talk, such as: "What type of radio do you have? Do you go to school? If so what grade are you in and if you work, where do you work?" He is really good at communicating.

Isaac said his favorite thing about amateur radio is

emergency preparedness. He said that is so important because sometimes during an emergency that is the only communications available. He hopes to get more involved with that. Isaac is a member of UARC.

Isaac we wish you all the best in your endeavors, especially you your upgrading your ham license.

73, Linda Reeder, N7HVF



Pictures of Field Day 2007—Payson Lakes



Setting up the tower and eating the Dutch oven dinner





Setting up the operating tent.

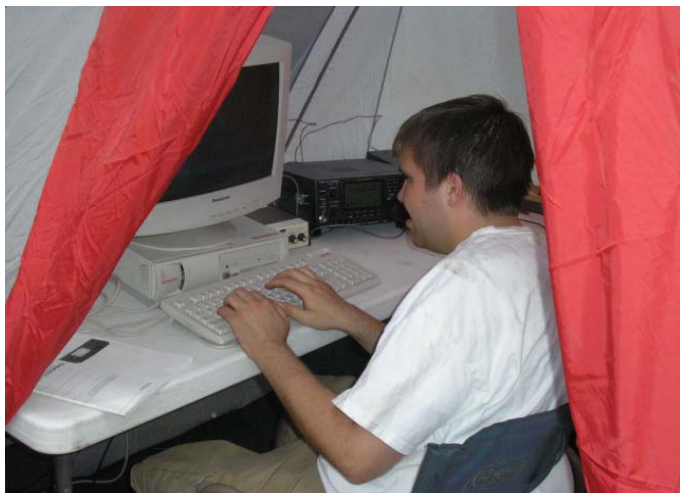


Where are the operating tables and chairs?



GOTA Station operators





Our Field Chairman, Andrew, AC7CF, and Gordon, K7HFV, operating CW



SSB phone station operators





Our chef, John, N7MFQ, and the Dutch oven chicken dinner.



Exam Schedule

07/11/07 (Wed.) Clearfield
Contact: Mike Youngs, KK7VZ
Phone: (801) 573-3922

07/18/07 (Wed.) Provo
Contact: Steve Whitehead, NV7V
Phone: (801) 465-3983

07/18/07 (Wed.) St. George
Contact: Ron C. Sappington, WI7Z
Phone: (435) 673-4552

07/19/07 (Thu.) Roosevelt
Contact: R chandler Fisher, W7BYU
Phone: (435) 722-5440

07/31/07 (Tues.) Salt Lake City
Contact: Eugene McWherter, N7OVT
Phone: (801) 541-1871

08/04/07¹ (Sat.) Salt Lake City
Contact: Gordon Smith, K7HFV
Phone: (801) 582-2438

08/15/07 (Wed.) Provo
Contact: Steve Whitehead, NV7V
Phone: (801) 465-3983

08/15/07 (Wed.) St. George
Contact: Ron C. Sappington, WI7Z
Phone: (435) 673-4552

08/28/07 (Tues.) Salt Lake City
Contact: Eugene McWherter, N7OVT
Phone: (801) 541-1871

09/19/07 (Wed.) St. George
Contact: Ron C. Sappington, WI7Z
Phone: (435) 673-4552

09/19/07 (Wed.) Provo
Contact: Steve Whitehead, NV7V
Phone: (801) 465-3983

09/20/07 (Thu.) Roosevelt
Contact: R Chandler Fisher, W7BYU
Phone: (435) 722-5440

07/31/07 (Tues.) Salt Lake City
Contact: Eugene McWherter, N7OVT
Phone: (801) 541-1871

10/03/07 (Wed.) Ogden
Contact: Mary Hazard, W7UE
Phone: (801) 430-0306

10/06/07¹ (Sat.) Salt Lake City
Contact: Gordon Smith, K7HFV
Phone: (801) 582-2438

¹ Pre-registration required. Contact the contact person prior to the examination date.

For more detail either call the contact or checkout the information on our web-page:

<http://www.xmission.com/~uarc>