

# PRINTED CIRCUIT

JULY 2001

Newsletter of the Joplin Amateur Radio Club

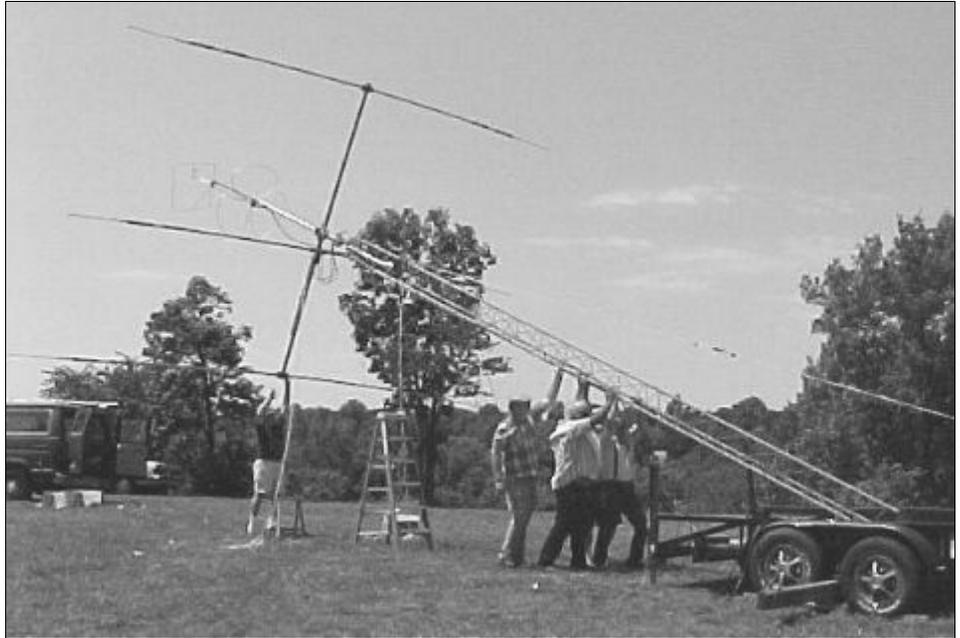
Vol. 11 Issue No. 2

## JOPLIN ARC FIELD DAY EXERCISE

JUNE 23-24, 2001

Great WX was only part of the picture for this year's Field Day event held at Joplin's Dover Hill.

**T**he club began setting up Saturday morning with T-Bird's portable tower. Shown here are Ray, Mark, Martin,



(above) Erecting the Tower

(below) John WØJRP pounding brass on 15 Meters



T-Bird NØNFZ Raising the Tower



Dave, and Jim pushing, while T-Bird (below) is hoisting the rotatable Tri-Band beam along with two antennas for 6 and 2 meters skyward. With the 30 foot structure in place, a pair of recently constructed dipoles for 40m and 80m were hoisted up to the yardarms then were

secured to nearby trees. A ground mounted multiband vertical was set near the RV to complete the antenna array.

As for stations on the air, the club operated "2A" again this year with a third free novice station using the call NØKMP. An unexpected

*(Continued on page 3)*

**inside...**

WØJRP VHF Report

More Field Day Pictures

Upcoming Events / Hamfest Calendar/Classifieds

Page 2

Page 3

Page 4

## WHY SOME PEOPLE DON'T WANT A HAM LICENSE

A True Story...

When I lived in Amarillo TX, I had a friend "Jerry Hickman", now deceased. He was the chief engineer and my boss when I worked at KIXZ Radio there.

I asked Jerry several times why he didn't get a ham license and all the reply I ever got was "not interested." He finally told me the whole story. Around 1947, Jerry was attending Port Arthur College in Texas. His roommate had just gotten his ham ticket and had his rig set up in the dorm. In those days a general class could only work 10 meters on HF voice and there was lots of activity on ten. One school night it was getting late and Jerry was trying to get some sleep, but his roommate was having a great time on 10 meters during an E-skip opening. Around midnight Jerry said "Why don't you quit and go to bed"? His roommate replied "10 meters is wide open, I can't quit now!"

Then came a Friday night with no school scheduled the next day and Jerry decided to take in a movie, so that he didn't have to listen to the 10 meter QRM. He arrived back at the dorm shortly after 10pm and found his roommate asleep. "Why aren't you on the air tonight?" he asked.

"10 meters was dead, so I went to bed early." was the reply.

After this happened, Jerry decided he would have nothing to do with ham radio. I guess I can say I did the same thing in my early days of ham radio. My mother use to bring my meals to the ham shack. In fact my wife still does when a good six meter opening is going on.

John WØJRP

FOR MORE PICTURES OF  
FIELD DAY 2001  
JARC WEBSITE

## AO-40 ACHIEVES A NEW ORBIT

AO-40 now is in a new orbit. Recent efforts to raise the satellite's orbit at perigee--its point closest to Earth--were somewhat more successful than originally anticipated. Ground controllers had planned to lift the perigee from 280 km to around 500 km. Successive firings of cold arcjet ammonia fuel resulted in an orbit that's 851 km at perigee, however.

"Indeed, the good news is that AO-40 is now in a safe and stable orbit!" said AMSAT-DL President Peter Guelzow, DB2OS, on behalf of the AO-40 team. "The bad news: All 53 kg of ammonia probably has been used up." This means further orbital adjustments--at least using the arcjet--are unlikely. Guelzow said ammonia stopped flowing after orbit 302, "and the pressure indicators in the telemetry show no more pressure in the motor and in the ammonia tanks, while the perigee clearly is higher than anticipated."

AO-40's height at apogee--58,971 km--was unchanged by the orbital adjustment.

Guelzow said stored telemetry was being downloaded and analyzed. Shut down prior to the start of the orbital adjustment, AO-40's transponders remain off the air. They will stay off as ground controllers adjust the satellite's attitude using on-board magnetorquing.

AMSAT-NA President Robin Haighton, VE3FRH, has said it's hoped that a slightly higher perigee for AO-40 will eliminate the effects of what he described as "a mysterious force" that alters the satellite's attitude when it comes through perigee. One theory, he said, is that atmospheric expansion caused by the current sunspot cycle peak was influencing the satellite's orbit in some way. The higher perigee should eliminate any atmospheric impact.

For more information on AO-40, visit the AMSAT-DL Web site, <http://www.amsat-dl.org/> or the AMSAT-NA Web site, <http://www.amsat.org>

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--THANKS TO AMSAT NEWS SERVICE

## VHF REPORT

### TWO METERS OPEN FOR E-SKIP

Two meter sideband ops were treated to a 4 hour E-skip opening on Sunday morning July 8th. Area stations in on the action were KØETC WØVD NØMST WØJRP KØAZ and others.

WØJRP worked K9KNW K4NB and W4FF all in Florida. Also AB4OO in grid EM81 in Georgia. Stations had a lot of QSB but signals ranged from S3 just above the noise to as high as S9 +40 dB at times.

During this time the FM broadcast band was loaded with signals from the southeast almost taking out local stations at times. TV channels from 2 to 6 were going wild with such a jumble of strong signals it was hard to identify any.

John Tudenham  
WØJRP

## ARES EVENTS AND SCHEDULE

The Jasper County/Tri-States ARES holds semi-monthly meetings at 7:30pm on the first and third Tuesday of each month at the Red Cross Headquarters in Joplin.

The building is located at 402 Jackson Ave. (7 blocks west of Main St.). The meeting room is on the west side of the building, with parking access from the alley west of Jackson St.

It should be noted that the weekly ARES net is held at 9:00 p.m. Monday nights on the JARC repeater 147.21 MHz (+).

For more information about ARES go to [http://www.geocities.com/jasco\\_ares/](http://www.geocities.com/jasco_ares/) or contact Andy either on the air or email him at [ka0tud@arrl.net](mailto:ka0tud@arrl.net) ¶

(Continued from page 1)

bonus occurred when Brian NØUBL set up an APRS station. As for VHF, we operated SSB on 6m with success, also 2m but to a lesser degree. Jim NØZSQ had set up a station in the RV which was mainly operated in the 10m novice band. The activity on 10m was somewhat sporadic but some contacts were made as far away as the West Indies. John's rig was located



(above) Ray, Dave, Mark, and Jim put the "finishing touch" on the installation.

under an awning attached to the RV and was used on 15m, 40m, and 80m. You could usually find John WØJRP pounding out "CQFD" on the brass while Robb ABØRK or myself would be filling in DUP sheets for him. John indicated there was good activity on 15m, and even worked into Hawaii. He mostly operated CW during the contest and even gave the TV crew an education during their visit, explaining the use of CW and its history. To add to the fun, John switched to SSB for the "on air" demonstration and worked WA5LVT - the Tulsa Repeater Club. He switched to 40m in the evening as the band opened up.

In the field near the base of the trailer, the tent supplied by Mac W9NLA was set up to house both the 20m station and the VHF stations. Ray lived here for most of the weekend. Captured here are the motley crew - Ray, Dan, and Brian, Sunday morning, after about 20 hours into the contest.

Although the majority of contacts were made on



(above) Dave NØKMP interviewed by KOAM-TV

(below) Ray, Dan, and Brian pose for photos



the 20 and 15 meter bands, ten meters was open again this year and some fun was had even on six meters where several contacts were made.

To demonstrate to Dave that I hadn't lost my CW skills completely, I operated 40m starting about 4am Sunday. I was pretty rusty, and I feel sorry for the guys on the other end. The band was wide open to the east coast, and I worked stations in OH, NH, VT, PA, NC, and points east. It was when I worked a K6 station that I became worried. I couldn't figure out the section "SCV". Thinking that I misread the code sent, I asked the operator to repeat it. In the phones here comes "SCV SCV SCV SCV"

confirming what I had written. So where was this section in South Carolina? I woke Martin who was dozing nearby and popped the question. Without a pause he utters "Santa Clara Valley". Well, it seemed I was open to both coasts. Of course it got even more interesting as the dawn drew near and the band started changing - 40m is like that, and slow CW is not what you need to be sending at that time. By 8am, my speed had progressed to about 10 WPM but the band had settled and the 40m stations were located only in adjacent states.

(Continued on page 4)

## ARRL DUES REBATE OFFERED

When you renew or upgrade your membership, or obtain a new membership with the ARRL, the JARC is eligible for a rebate from the ARRL that will provide additional funds for the club.

To obtain the rebate, the club treasurer must complete the "ARRL AFFILIATED CLUB REBATE RECONCILIATION FORM" and forward that form with the correct moneys to the ARRL. **The renewing member must submit his money via cash or a check payable to the Club.** When you receive your renewal notice from the ARRL, don't delay in getting your money to the club treasurer to insure that your membership and QST subscription does not expire.

Your membership to the ARRL guarantees other benefits for the club through affiliation. All hamfests that are sanctioned by the ARRL receive door prizes for distribution, and representatives of the ARRL are made available to provide forums and lectures for the club.

If you not now an ARRL member, but are contemplating membership, be sure to contact Jim NØZSQ and help the club take advantage of the rebate that they offer.

*(Continued from page 3)*

Dave NØKMP handled most of the PR this year as you can see, however rumor has it that Big Larry NØMST was also interviewed, and helped get the club a good deal of publicity on both TV and in the newspaper. Both KOAM and KSNF sent reporters out to the site to interview the operators. It worked, we had several early Sunday morning visitors (besides some friendly dogs) come to see what the event was all about.

Saturday evening the club had a cookout at the site for all who attended, and of course refreshments were available for the whole 24 hours.

It will be interesting to see how the club score compares to last year. In 2000 the club also operated the 2A +novice class, posting 476 contacts for a combined score of 1550 points for the event. ¶

## HAMFEST CALENDAR

Note: Listings are provided from the ARRL.ORG site as they become available. To submit an entry, see back page.

**21 July, 2001** - Sherman, TX  
North Texas Hamfest Committee  
<http://home1.gte.net/wb5dcu/nortex00.html>  
Contact: Gene Hodge, K5DPS 211 North Brinkley Sherman, TX 75092  
Phone: 903-893-6082 Email: kc5aft@gte.net  
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**26-29 July, 2001** - Fort Worth, Texas  
Central States VHF Society  
The 35th Annual Central States VHF Society Conference. An outstanding technical program and family activities are planned for everyone to enjoy.  
<http://www.csvhfs.org>

Contact: Lilburn Smith, W5KQJ 290 Robinson Road Weatherford, TX 76088  
Ph: 817-596-3539 Email: lilburn@mesh.net  
\*\*\*

**27-28 July, 2001** - Oklahoma City, OK  
Oklahoma State Convention  
Central Oklahoma Radio Amateurs  
<http://www.geocities.com/coraokc> Contact: Tom Miller, KD5ENL 2602 Linden Avenue Norman, OK 73072  
Ph: 405-321-7889 (hm) or 405-686-7247 (wk)  
Email: tmiller4@mmcable.com  
\*\*\*

**4 August, 2001** - Springfield, MO  
Southwest Missouri ARC  
Ozark Regional Hamfest and Computer Swap will be held in the University Plaza Trade Center at 625 E. St. Louis St. in Springfield. 8:00 AM to 1:00 PM. Admission is \$5.00; children 15 and under admitted free. Tables \$10.00 each (a \$5.00 Springfield Merchants License is required and can be obtained when the table is reserved). Table setup from 3:00 - 7:00 PM, Friday, and 7:00 AM Saturday. Door prizes, forums, VE testing, and other activities through the day.  
<http://www.smarc.org>

Contact: Woodie Moore, WØODY 1905 East Wheat Ridge Springfield, MO 65803  
Ph: 417-833-2248 Email: w0ody@arrl.net  
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**18 August, 2001** - Chanute, KS  
Chanute Area ARC Hamfest  
Contact: Charlie Ward, WDØAKU  
Phone: 316-431-6402  
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**19 August, 2001** - Salina, Kansas  
Kansas State Convention Central Kansas

## BUY - SELL - TRADE

**For Sale** - never out of the box, Mosley TA-33, 10-15-20 meter 3 element, beam antenna, with the TA-40KR 40 meter trap attachment. The TA-33 will handle a full KW on CW and 2000 KW PEP SSB. My company represented Mosley for many years. I retired in 1980, and ordered it for my personal use, but never installed it. It is still in the 12 ft. shipping carton. My best recollection is the TA-33 in 1980 had a distributor net of \$550 and the TA-40KR a net of \$115. Located in Atlantic, Iowa. (70 miles west of Des Moines). e-mail bobcw@metc.net or by telephone 712-243-6924. I will accept any reasonable cash offer. Robert C. Willms KØZNZ

7/2001

**For Sale** - Misc estate items. D-104 Chrome Mic \$40; Soldering Irons \$1-\$5 ea.; Several Heathkit accessory items including a Tube Tester, Watt Meter, and much more. Charlie Borneman NT5R (903) 454-2128, email nt5r@netscape.net, or call John WØJRP at (417) 624-8058

4/2001

**For Sale** - Clearance - Z80A CPU, Z80-DMA, Z80 CTC, 7805T, Z8 ROMLESS, LM393, LM307, 4164, 2716, 2732, 2764 choice 2/\$1. Carbon Film Resistors ¼W 5% - 100/\$1. Also large assortment of SK parts - call for pricing. Jim WBØIYC (417) 781-2211, email wb0iyc@arrl.net

1/2001

ARC <http://www.qsl.net/w0cy>  
Contact: Ron Tremblay, WAØPSF, 112 North Douglas Drive Salina, KS 67401-3516  
Phone: 785-827-8149  
Email: tremblay@midusa.net  
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**25 August, 2001** - Columbia, MO  
MO State Convention/CMRA Hamfest  
Central Missouri Radio Association  
<http://www.qsl.net/cmra/hamfest2001.htm>  
Contact: Dale Huffington, AEØS, 2709 Cimarron Drive, Columbia, MO 65203  
Ph: 573-875-6170  
Email: dale@tranquility.net  
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**Answers to last months puzzle  
“Do You Know Your RF”**

# JULY 2001

## Joplin Amateur Radio Club Meetings and Events

<i>Sun</i>	<i>Mon</i>	<i>Tue</i>	<i>Wed</i>	<i>Thu</i>	<i>Fri</i>	<i>Sat</i>
<b>1</b>	<b>2</b> 19:30 JARC NET WØJRP NET CTRL 21:00 ARES NET KAØTUD NET CTRL	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b> CENTRAL DIV. CONVENTION INDIANAPOLIS
<b>8</b>	<b>9</b> 19:30 JARC NET KBØSTN NET CTRL 21:00 ARES NET KAØTUD NET CTRL	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>
<b>15</b> WAHSINGTON MO HAMFEST	<b>16</b> 19:30 JARC NET NØKMP NET CTRL 21:00 ARES NET KAØTUD NET CTRL	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>
<b>22</b>	<b>23</b> 19:30 JARC NET NØZPD NET CTRL 21:00 ARES NET KAØTUD NET CTRL	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b> OKLAHOMA STATE CONVENTION - OKLAHOMA CITY	<b>28</b>
<b>29</b>	<b>30</b> 19:30 JARC NET NØKMP NET CTRL 21:00 ARES NET KAØTUD NET CTRL	<b>31</b>				

# AUGUST 2001

## Joplin Amateur Radio Club Meetings and Events

<i>Sun</i>	<i>Mon</i>	<i>Tue</i>	<i>Wed</i>	<i>Thu</i>	<i>Fri</i>	<i>Sat</i>
			<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b> 08:00 Springfield Hamfest - Univ. Plaza Trade Center 625 E. St. Louis
<b>5</b>	<b>6</b> 19:30 JARC NET WØJRP NET CTRL 21:00 ARES NET KAØTUD NET CTRL	<b>7</b> 19:30 ARES MEETING	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>
<b>12</b>	<b>13</b> 19:30 JARC NET KBØSTN NET CTRL 21:00 ARES NET KAØTUD NET CTRL	<b>14</b> 19:30 BUS MEETING	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b> Chanute, KS Chanute Area ARC Hamfest
<b>19</b> Salina, Kansas State Convention Central Kansas	<b>20</b> 19:30 JARC NET NØKMP NET CTRL 21:00 ARES NET KAØTUD NET CTRL	<b>21</b> 19:30 ARES MEETING	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b> Columbia, MO MO State Conv./ CMRA Hamfest Central Missouri Radio Association
<b>26</b>	<b>27</b> 19:30 JARC NET NØZPD NET CTRL 21:00 ARES NET KAØTUD NET CTRL	<b>28</b> 19:30 PGM MEETING	<b>29</b>	<b>30</b>	<b>31</b>	

## Meeting Times, Testing, and other Club Information

**T**he **Joplin Amateur Radio Club, Inc.**, a Missouri *not-for-profit* organization, meets on the second and fourth Tuesdays of each month at the Joplin Municipal Building, on the lower level, in the Civil Defense dining room at 7:30 PM. The facility is accessible to the handicapped.

The club supports and promotes annual operating events, assists area agencies with communications when requested, and offers training classes for advancement in amateur radio. It also sponsors the JARC Hamfest each year in April, and maintains a wide area coverage OPEN 2m repeater on 147.21 MHz.

Club members often meet weekday mornings in Joplin for coffee at the McDonald's at 12th and Rangeline Road around 8:30 a.m. On Saturday mornings, area Hams also gather for

breakfast around 8:30 a.m. at the restaurant in the Ramada Inn, 3320 Rangeline Road in Joplin. For more details please contact Ray Brown KBØSTN at (417) 781-4967

### 2001 CLUB OFFICERS:

President: Ray Brown KBØSTN  
V.P.: Martin Matarazzo WD6FIC  
Treasurer: Jim Johannes NØZSQ  
Secretary: Mark Mitchelson NØZPD

## Amateur Radio VE Testing

License testing by volunteer examiners takes place on the 3rd Monday of each month at the St. Paul's Methodist Church located at 2423 West 26th St. in Joplin. Sign up at 6:30 PM, testing begins promptly at 7 PM.

### ABOUT THE NEWSLETTER

This club newsletter offers an open forum for the Four-State area amateur radio community, and **your** comments and contributions are always invited. Items for publication, including classified ads and amateur radio related articles, may be sent to the **JARC Printed Circuit**, P.O. Box 2983, Joplin, MO 64803-2983, or send email to: **jim-scott@janics.com**

Deadline for submissions is the 20th of the month preceding the month of publication. Non-Commercial Classified ads are free and will be run on a space available basis whenever requested. Submissions may be typed, handwritten, ASCII text files attached with email, or on disks formatted for IBM. *All items* are subject to editing for spelling, content,

Last Page

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