



# THE SIGNAL



Official Newsletter of the  
Tulsa Repeater Organization



Vol. 49 Issue 5 July 2016

“Covering Tulsa through the air”

## UP FRONT – A Word from the Editor

I normally use this column to give an overview of what's going on with the club, and as a introduction to the rest of the newsletter. I often mention the events and activities of other clubs, to encourage our members to support them, especially for public service or the advancement of the knowledge and skills of individual hams.

But, this time, I will use the editor's column to do some editorializing. The following comments are my own, and do not reflect the views of other officers, members, or the official position of the club. If my comments generate any heat, I stand ready to take responsibility for my views.

In our reports on public service or public relations events, we include a volunteers list. We do so only to recognize the contributions of those who chose to give of their time and use of their equipment and skills. Someone privately expressed concern that someone from another club could use one of these lists to start a “contest” between clubs over numbers.

**THAT IS NOT MY INTENTION!**

I am not interested in starting a contest or “competition” with any other club over who can get the most people to show up for events and activities. Whenever any club does anything, I want them to have enough people on hand to make the event successful and enjoyable. The ham radio community as a whole does better when all clubs prosper.

Now, if someone is determined to start such a contest, I don't think that I can stop them by not including volunteer lists in the reports. They will find something else to use to start the contest.

What is the best response to this behavior?

**DON'T JOIN THE CONTEST!**

If no one joins the contest, I believe they will soon get tired of it, when they see it does no good.

I believe such competitions are petty and immature. Now, I'm not saying that anyone in particular is immature, just the behavior. Sometimes, even mature people can get caught up in emotion, forget who they are, and act like children.

Should I let the possible behavior of others keep me from recognizing our volunteers?

How does this competitive behavior fit with the Radio Amateur's Code? In case you've forgotten it, or haven't heard of it, you can find a copy online. I believe the section on loyalty applies here. As a ham, your first loyalty is to the hobby, and not to one particular club.

My approach to club membership is this: If the club does something I want to support, I support the club. If I can afford it, I will join the club. I can't, I'll support it in other ways.



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**Question & Answer  
Session at July  
Meeting**

**Tuesday 26 JUL 16  
Tally's Cafe 11<sup>th</sup> & Yale**

<b>THE OFFICIAL WORD! - What Our Leaders Have To Say</b>
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**PREZ SEZ - Mark Conklin N7XYO**
**Field day was a blast!**

Big thanks to everyone that made it out to Field Day 2016 – being out of the sometimes unpredictable & hot weather was a pleasant change. Cool air conditioned comfort, lots of seating, no flying pests, plenty of food & drink, good conversations and lots of ham radio fun. The only thing that would have made it better was for more folks to attend... maybe next year. I know that end of June is busy time for families, community festivals and other events here in Oklahoma... however, the more the merrier.



We are continuing to hold our membership meetings at Tally's Good Food on 11th & Yale in Tulsa. Tally's is growing and making some improvements. Tally himself said that there will be a meeting space when all the construction is done. In the meantime, pardon the dust... it will all be done soon.

Please make plans to attend the July membership meeting to hear all the latest machine updates and club activities.

You may have noticed that the Engineering and Activities Committees have been really busy. The repeaters are sounding great. Keep watch for the updates and improvements to the website, TulsaHamRadio.org, coming soon. A lot of good folks put in a bunch of time lately... it really shows.

A few months back TRO's executive board sent out a straw poll via email to all members, as well as mailed paper copies to members that did not have a working email address. On that poll was listed the following except from the TRO's by-laws:

**TRO BY-LAWS: SECTION XII- DISSOLUTION**

12.01 In the event of a unanimous vote of the Board of Directors to dissolve the Tulsa Repeater Organization, Inc., corporation, all remaining assets after satisfaction of all obligations of the corporation shall be distributed for purposes within the code of Internal Revenue Service Code 501(c)(3), and any amendments thereof.

It was also noted on that poll that the TRO Executive board is not recommending the dissolution of TRO, Inc.

If you were at the last few membership meetings, or at field day, we shared with the members in attendance that 76% of the members that responded did NOT favor the dissolution of the club. Plus given the number of membership renewals... it is clear to myself and the other members of the TRO's leaders that YOU want the TRO to succeed.

So folks, I hope to see you at the July membership meeting. Bring your ideas for club events, fun activities and/or programs you want to see at the meeting. If you have ideas and improvements for any of our machines please share those with TRO's Engineering Committee Chairman Joe Gorkos via email N5TEX@tulsahamradio.org.

As you know, you're also certainly welcome to pass your ideas on to me any time via email: n7xyo@tulsahamradio.org

See you at the meeting and thanks for being a member of the Tulsa Repeater Organization.

73 Mark Conklin N7XYO

<b>FOR THE RECORD cont'd– Minutes and other organizational stuff</b>
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<b>MEETING NOTES – DOUG LEE, KC5ZQM</b>
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**Tulsa Repeater Organization Executive Committee Meeting  
14 JUN 16 Rib Crib, 81<sup>st</sup> & Yale**

Officers present were:

President Mark Conklin, N7XYO

Secretary / Public Relations Chair Doug Lee, KC5ZQM

Treasurer Steve Miller, AA5V

Trustee Merlin Griffin, WB5OSM

Engineering Chair Joe Gorkos, N5TEX

Activities Chair Kenneth Baucum, KG5CBM

Membership Chair Tom Stroud, KD5OPH

APRS Engineer Ben Joplin, WB5VST

President Mark Conklin, N7XYO opened the meeting at 1901.

Secretary Doug Lee, KC5ZQM, mentioned that the minutes of the last Committee meeting were published in June issue of The Signal. Activities Chair Kenneth Baucum, KG5CBM moved to waive the reading if the minutes and accept as published. APRS Engineer, Ben Joplin, WB5VST, seconded and motion passed.

Treasurer Steve Miller, AA5V, had distributed prints of the Treasury Report, and noted an unlabeled cash item of \$37.00. Doug, KC5ZQM, reminded him the item was for printer ink for public relations.

Mark N7XYO brought up the issue of our meeting space at Tally's. Email discussion centering on Tally's plans for converting the meeting room to a bar had brought into question if Tally's would continue to be a suitable meeting location. Doug KC5ZQM will confirm the meeting space reservation for this month and inquire about future meeting locations.

Engineering Chair Joe Gorkos reported that Bob Buford, W5RAB, and Tom Shaw, K5OVT cleaned up the 146.805 repeater site at Autumn Oaks, 71<sup>st</sup> & Yale.

Trustee Merlin Griffin, WB5OSM reported on the 146.880 installation at Cityplex. Everything is now in one cabinet, with duplexers on top, including a 900 MHz repeater belonging to Rick Wilson, WD5ETD. Both repeaters are now under the WA5LVT call. Internet is available through open WiFi. Bob W5RAB has documented and labeled everything. Audio on the Synthesized Voice Announcer is 3 dB below repeater audio, so it may sound low on some receivers.

Preliminary discussion about MOU's for sharing repeater sites concluded that if the club does not own the equipment, then our call sign should not be on it. If we do own it, Merlin should be able to monitor and control it.

Question about the club's old 145.01 packet digipeater came up, because Jeff Scoville, AE5ME has recently put up another digi on that frequency. Ben WB5VST converted the club's digipeater to APRS, so no conflict there.

Kenneth KG5CBM started the Activities report by stating he has received an application for the Cystic Fibrosis Nite Ride, Friday, 19 AUG 16. He asked Doug KC5ZQM to serve as Net Control. Kenneth will sweep the route on his bike again, and we will use Doug's plan from last year.

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## FOR THE RECORD cont'd– Minutes and other organizational stuff

### MINUTES: TRO Executive Committee Meeting – cont'd

Kenneth then moved on to Bike MS on 17 – 18 SEP 16. A club in Canadian County will take over the event, but Kenneth will coordinate with them. Hams in the Tulsa area can still volunteer, and should consider doing so because the organizers will rent trucks from Tulsa, and they are looking for volunteers to drive them down to Norman. Hams will then ride with the SAG drivers.

The program this month will be a Question and Answer session. Doug KC5ZQM suggested this by email, and all agreed it was a good idea. His two major concerns were having people on hand to answer questions, and having a whiteboard available in case someone needed to illustrate an answer. Steve AA5V, Merlin WB5OSM, and Joe N5TEX agreed to handle tech questions; Mark, N7XYO would handle ARES. People will be asked through Facebook and an email to send questions to WA5LVT at tulsahamradio.org. Tom Stroud will bring the club's whiteboard to the meeting.

MOU's (Memorandum Of Understanding): Mark had sent a sample he prepared based on what other clubs have done, and asked other Committee members to comment on it. The goal is to have one with details tailored to our needs to avoid misunderstanding, and is also more friendly, less lawyerly.

Merger / Club Future: Mark N7XYO made the motion in January to discontinue discussion between the clubs concerning the merger, and Joe N5TEX moved to amend Mark's motion to table decision for 6 months, which means revisiting the issue at the July meeting. Mark noted that the club bylaws do not provide a vehicle for the members to dissolve the club. The Straw Poll and membership renewals indicate the members do not want the club to dissolve. No need to vote, just re-present the motion.

Merlin, WB5OSM added that a board for Internet access to .88 is available for \$65.00, and it would give him greater control over the system.

Kenneth, KG5CBM moved to close the meeting at 2030. Steve, AA5V seconded. Motion passed.

## GETTING TECHNICAL – Engineering Report, Repeater Status

### ENGINEERING REPORT – Joe Gorkos, N5TEX

Editor's Note: This first report is the blending of 3 reports into one. Merlin WB5OSM sent in two reports, and Joe, N5TEX sent in one. To make the narrative consistent, I changed personal references from first person to third. I left some first person plural references in to refer to the club. I think I may have earned my editor's stripes on this one. Thanks to Joe and Merlin for their work and words!

#### The New 88 Repeater

The installation crew for the new 146.88 repeater was: Bob Buford, W5RAB, Joe Gorkos, N5TEX, and Merlin Griffin, WB5OSM. Steve AA5V assisted in the procurement of some of the pieces to make up the system. The equipment including the cabinet was staged in Joe's garage and everyone helped put the pieces of the system in the cabinet multiple times. Bob was instrumental in getting most of the hardware assembled and the software to program the equipment. Merlin took on the task of getting the SCOM programmed. It is a new piece of equipment none of us had any previous experience on. Bob supplied the radios and software to make  
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## GETTING TECHNICAL cont'd – Engineering Report, Repeater Status

### Engineering Report – cont'd

### The New 88 Repeater

the radios work. Joe provided manpower and painted the cabinet.

Friday, July 1st, the team met over at Joe's house, finished assembling all the components, and added a few labels here and there. They powered the system on and checked everything out, to make sure all of the equipment played nice together. They found one of the Motorola Maxtracs we use as link receivers was rather deaf. Bob pulled that one out of the rack, and took it with him for repair. As the system is now, we really don't need it. It would just be a spare anyway. Using Bob's service monitor they adjusted all the levels. Then they transported it to Cityplex, and left it for the night.

The next day, the team met at Cityplex, but before they could do the install they had to remove the old system and use some of its parts in the new system. Pulling out everything and then cutting the old cabinet in half so they could remove it from the corner hid behind several large air handlers was quite a task. The team had to manhandle everything over the air handlers and reroute the coax to its new location. This project was an all-day event and they were glad to get the old system out and the new system in place.

The biggest change for everyone is that Cityplex is now the primary receiver, using an 88.5 PL tone. The new receiver in the Kenwood TKR-750 repeater works much better than the old Kendecom MR4C we had up there, probably because of better isolation from the transmitter. The repeater also transmits an 88.5 tone, if anyone wants to use it. This would keep you from hearing the Norman 88 machine or the Warrensburg, MO repeater during band openings. Bob W5RAB says he can now work Cityplex from his house in the north end of Bartlesville. Previously he could not get in even from a fixed station. Merlin WB5OSM doesn't know how far north its mobile coverage goes, but he can probably get in from an HT at his home in Owasso if he steps outside.

We still have two remote receivers for folks living NE or NW of town. To use the receiver located on Keetonville Hill, which is between Owasso and Claremore, use a 141.3 PL tone. This receiver is located on a 250 ft. commercial tower, uses a DB-224 antenna, and the feed-line is Heliac, and has lightning protection.. It is a commercial grade installation all the way, and has been trouble free since we put it in. Merlin WB5OSM reports that on an HT at his house, this is the best receiver for him. Driving around the area on a 10 watt mobile rig, all three of them work pretty good.

The other remote receiver is located on a water tower just NW of Skiatook. It readily provides good coverage of Sand Springs, Skiatook, and probably all the way into Bartlesville. Use an 82.5 PL tone to access this one. Merlin WB5OSM again reports that he has heard people using it from their vehicles in Claremore and Catoosa.

The audio is good, crisp and clean for all three sites. Also the levels should be very close for all three. To know if you are using the main receiver at Cityplex, or one of the remote receivers, listen for a difference in the courtesy tones. If you are on the main receiver up at Cityplex, the courtesy tone will be a single soft beep. If you are on one of the remote receivers, you will get a double beep at a slightly higher pitch.

We may add another remote receiver at some point in the future somewhere south or southwest of the City, if we think we need it, and can find a suitable site. With the increased receive range of Cityplex, we may not need it, since Cityplex is already in the southern part of the City at 81st and Lewis.

They found a couple of bugs in the system, at first Cityplex was responding to any  
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**GETTING TECHNICAL cont'd – Engineering Report, Repeater Status**

**REPEATER STATUS**

- 146.805 (-) PL 88.5 71<sup>st</sup> & Yale - Working
- 148.880 (-) PL 88.5 (CityPlex), 82.5 (Skiatook) or 141.3(Keatonville receiver) 81<sup>st</sup> & Lewis - Working
- 146.940 (-) PL 88.5 Sun Building, 9<sup>th</sup> & Detroit - Working
- 444.1 (+) PL 88.5 Skyline East 41<sup>st</sup> & Skelly Drive - Working
- 442.725 (+) PL 88.5 Water tower NW of Skiatook - Working
- 444.950 (+) PL88.5 Lookout Mountain - Working
- ATV Repeater – Off the Air (equipment removed)

**Engineering Report – cont'd The New 88 Repeater** signal and any PL tone. Bob checked the wiring and the programming on the Kenwood, and found it to be OK. We made a change in the programming of the controller, and solved that problem. Then people complained that the audio level of the announcements was too low. It was set that way intentionally. They wanted it to be down below the main repeater audio. It was set at -9 dB, then Merlin WB5OSM bumped it up through the controller software to -6dB, and folks said that was still a little low. So now it's set at -3dB. I think Kenneth's recording may still be a little on the soft side, and that is probably from the digital editing Merlin did. Otherwise, he sounds really good, and may become the voice of the 88 repeater.

We also have a control receiver listening on UHF. It also responds to commands from all three VHF channels right now. If that gets to be a problem we can shut it down to just the control receiver, and eventually over the internet. I will need to purchase an IRLP board, and get a network connection at Cityplex to do that. Hope to have that in place by next month. We have made contacts with Cityplex Telecom and the answer was probably. Also, they have free and open WI-Fi up there now, so we could do something with that, just by purchasing a wireless router to go with the IRLP node.

Some things left to do:

1. Put a copy of the configuration report up at Cityplex in our notebook with the documentation of the system.
  2. Publish a list of control commands that can be used to put the repeater in net mode and Skywarn mode, and allow Kenneth to turn his advertisement off and on.
  3. Investigate the remote front panel feature. Also, if we get the computer internet interface we could do some ham broadcasts like the RAIN dial up service, ARRL bulletins, and maybe Ham Nation. No longer would we need to put a rubber band around a microphone while holding it up to a computer speaker or HF rig. We could actually just schedule the stuff and it would run at the scheduled time. Add to the macro for the WX and public service net modes to kill the set points for the Ham Casts when the repeater has something better to do.
  4. Merlin WB5OSM would also like to see about the NOAA WX Radio interface. It will support the one from CAT Auto, but that costs \$500. So it would either need to be a donation from somebody that wants us to do it, or we put it in either next years budget, or the year after. An item that expensive, Merlin will not purchase unless our members have voted for it.
  5. Bob W5RAB and Merlin WB5OSM will make another excursion up there, sometime after Labor Day when the weather should be cooler. On weekends, especially when the Law Office on the 59th floor is closed, the
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## GETTING TECHNICAL cont'd – Engineering Report, Repeater Status

### Engineering Report – cont'd

### The New 88 Repeater

air-conditioning is mostly shut off. Bob will bring his service monitor and we will give the system a thorough check-up RF wise.

Many thanks to Bob W5RAB! He's contributed a lot of man-hours to this project as well as some of the equipment and supplies used in the system. He was also instrumental in us obtaining the Keetonville Tower site. The hill is around 800' above sea level, and the tower is at least 250' above that.

Also, thanks to Joe N5TEX and Sue Gorkos KG5GOE for allowing us use of their garage for building this system. Joe also supplied tools, parts, and labor.

Bob probably enjoyed sawing up that old cabinet they took out in pieces; he hated that thing. The new one is much nicer looking. It's on wheels and has doors so we can keep our stuff cleaner, although Cityplex keeps the room cleaner than they used to. It should also keep the yellowjackets out much better now.

### Visit to Autumn Oaks and CityPlex

[Editor's Note: This report comes from Joe N5TEX]

I met Bob Buford, W5RAB, and Tom Shaw, K5OVT, over at Autumn Oaks to look at the 146.805 repeater. They were there to replace a dish for the DMR system. Task was completed, now they need to install the same type dish at the Sun building. I took some pictures and will share later. 146.805 looks really good and has super filtering and should be used more often. The antenna, coax feeds are all cleaned up, the roof looks better and the cabinet is secured and labeled.... Great job done by all those involved in making this happen. This is a good looking site.

We went over to CityPlex to replace several "T" type connectors and install the correct length coax and proper connectors on both the 146.88 and 900Mhz systems in the new cabinet. After that Bob and Tom looked at the .88 carrier squelch issue with the software program but were unable to cure the problem. I had Bob change the PL tone to 100 and we could key up the TX but no audio would come through the s-com. But it keyed the TX. Put the pl back to 88.5 and called it quits for the day. I also cleaned out the old area and removed all the trash from the site so it looks better than it was before.

Bob has done an excellent job in making this site not only operate better, look better, but easier to repair and troubleshoot. Merlin has done a good job in programming the s-com unit, one that is totally new to all of us and provides more options than a lawyer in writing a contract. There still may be an issue with it that may need to be turned off or on to remedy the pl issue. Not sure but needs looking at one more time.

For me I was just a rider along the way and chief gopher. That is go for this and go for that. But it was interesting. I do know we sure worked up a sweat pulling the old unit out and installing the new system. The system is quieter and may be the TX audio might need a little boost.

## GETTING RADIO ACTIVE - Activities Report, Schedule of TRO Events

### ACTIVITIES REPORT – Kenneth Baucum, KG5CBM

June was a busy month with several opportunities for service, a huge thanks to those of you who came out to support Tour de Cure, Tulsa Tough, and participated in Field Day.

Oklahoma Freewheel took place June 18-23, and was one of the most active events in recent history, and also one of the most poorly supported by amateur radio. The event was voted in during the April meeting, and a handful of folks expressed interest  
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<b>GETTING RADIO ACTIVE cont'd - Activities Report, Schedule of TRO Events</b>	
<p><b>TRO EVENTS</b></p> <p><b>PUBLIC SERVICE</b></p> <p><b>Cystic Fibrosis Nite Ride</b> Friday, 19 AUG 16 Guthrie Green, Brady &amp; MLK Blvd</p>	<p><b>Activities Report – cont'd</b> in helping out, but only one individual actually made it out to support the event.</p> <p>The low turnout was disappointing to say the least, and was compounded by several medical emergency calls, extreme heat, and other non-ham volunteers being called away to care for family or themselves. I understand that things can come up and sometimes we (including myself) can be forgetful - but I ask that we seriously consider whether or not we will be able to to fully</p>

support an event before we choose to vote it in as a club. This will help not only our reputation, but will help us avoid embarrassment and build trust in our organization from the community.

Coming up soon are three more opportunities to support the public through amateur radio:

\*Cystic Fibrosis Night Ride, August 19th

\*Dam Jam, September 10th

\*Bike MS, September 24th and 25th

As we discuss these events, I trust that you'll consider voicing and voting your ability to support these events. Details for these events will be made available on [TulsaHamRadio.org](http://TulsaHamRadio.org) as they become available.

#### **TRO Field Day 2016 Report – Doug Lee, KC5ZQM**

Sometimes, the preparation for Field Day requires more effort than what you put in on the day itself. That was especially true for me this year.

We used VolunteerSpot.com to help with the organizing and planning. I signed up there to bring the ARRL Ham-Aid station that Ben Joplin, WB5VST, had handed off to me earlier at Camp Bandage, and to bring out some potato salad for the club picnic. I noticed that everyone who took some ate it all, and I received several compliments about it.

I arrived at the Okmulgee County EOC, 110 N. Alabama, around 0900, and found Mark Conklin, N7XYO, inside straightening up and preparing for the rest of the crew.

I set up a small PR display on the conference table that is just inside the front entrance, then gave my attention to setting up radio equipment.

Joe Gorkos, N5TEX, arrived soon after I did. He brought in his equipment, then set about setting up a wire dipole along the south side of the EOC. I asked if he needed help, and he did. The two halves of the antenna had been wound up together, and were intertwined. He could have unraveled them on his own, but he wouldn't have finished until almost time to start making contacts. This effort soon became a three man operation, as Steve Miller, AA5V, joined us. Joe held the center of the antenna while Steve and I each held one end of the wires, and Steve passed back and forth alternatively going under or over my half of the antenna. At one point, I quipped, "Didn't we play this game as kids?"

That was the extent of my antenna construction efforts for a while. I went back inside to the AC to set up radios, tuners and power supplies.

After I arranged the Ham-Aid equipment on a table in the classroom, I noticed the wire dipole in the kit was in the same situation as Joe N5TEX's antenna had been – both sides wound up together. I spent the better part of an hour untangling that mess, but I chose to do it inside.

Meanwhile, Paul Young, KE5EHM showed up and began to help with antenna set up. Brett Lackey, KF5YEY, an Emergency Management volunteer, also helped with antennas and whatever else we needed. Several other EM volunteers, and Okmulgee County Emergency Management Director Tim Creighton,  
(continued on next page)

## GETTING RADIO ACTIVE cont'd - Activities Report, Schedule of TRO Events

### TRO Field Day 2016 Report - cont'd

helped out a bit and asked a few questions.

Joe N5TEX used his Comet Antenna Analyzer to adjust both dipoles and to see which bands they would work best on. He also checked the vertical antenna for the EOC's Icom IC-706. After a brief discussion, he recommended 40 M for the EOC radio, 20 M for the Ham-Aid station, and he would try his radio on 10 meters.

I'm not sure why, but the bands sure seemed to be stingy with the DX. I don't think we accumulated any more than a few dozen contacts.

Mark N7XYO started out operating the EOC radio, but Steve AA5V took over there after spending some time helping Joe N5TEX and Paul KE5EHM try to make contacts. I stuck with the Ham-Aid station, determined to make contacts despite the band conditions denying me that pleasure and privilege.

I abandoned 20 meters to try 15. It was worse. On 20, I could hear stations, but they couldn't hear me. On 15, I couldn't hear anything except some faint garbled sounds I could barely recognize as "CQ Field Day" calls.

Around 1700, Mark N7XYO, transitioned to the infrared station to cook burgers and hot dogs for the picnic. About that time, I decided to try 40 meters. The EOC's antenna was a vertical, and the Ham-Aid's dipole was horizontal. For some reason, I couldn't hear Steve AA5V on the radio, but I knew when he transmitted because I was only about 10 feet away from him. Obviously, he couldn't hear me on the radio either, because he was surprised that a station he hadn't logged told him he was a duplicate! I had just contacted that station a few minutes earlier, at 1715!

By the time the picnic started, David Siebert, KF5YZW, and his wife, Margaret, and Joe's wife, Sue Gorkos, KG5GOE, and Merlin Griffin, WB5OSM had arrived. Glen Brewington, AA5FM had been there earlier, but didn't stay for the meal. Paul KE5EHM and Joe N5TEX encouraged Sue to try making contacts, because the female voice often draws a quicker response than male voices do. She made her first contact! Congratulations, KG5GOE!

After everybody had their fill of burgers, dogs, sides and desserts, Mark N7XYO conducted a drawing for prizes. I helped by distributing tickets. Almost everybody won something, but Paul KE5EHM won the big prize, a Baofeng HT.

We went back to operating radios until about 2030. We had thought about just bringing in the wire antennas and coming back in the morning to finish the tear down, but no one wanted to make that extra drive. I had just logged my third and last contact at 2024, but I was ready to get home. By the way, my second contact on 40 meters was one I had to get, and not let Steve have it, because the callsign's suffix matched my initials!

Despite the poor band conditions, I think we could have done better if we could have gotten the antennas higher off the ground. Maybe next year we could have use of Ben WB5VST's 60 foot mast.

Many thanks to Okmulgee County Emergency Management for the use of your facility, and all your help in making TRO Field Day 2016 an enjoyable and memorable experience!

Sure we put in lots of effort to make just a few contacts. But did we do the best we could with what we had? Yes! Did we have fun? YES!



Left: Joe N5TEX, Glenn AA5FM, and Paul KE5EHM searching for Field Day DX

Right: Steve AA5V uses the Okmulgee County EOC's HF radio to hunt Field Day contacts



**GETTING RADIO ACTIVE cont'd - Activities Report, Schedule of TRO Events**

**TRO Field Day 2016 Participation Chart**

NAME	CALL SIGN	COMMENTS
Mark Conklin	N7XYO	TRO President, OCEM Communications Officer, cook
Paul Young	KE5EHM	TRO Vice President
Doug Lee	KC5ZQM	TRO Secretary, Public Relations Chair
Steve Miller	AA5V	TRO Treasurer
Merlin Griffin	WB5OSM	TRO Trustee
Joe Gorkos	N5TEX	TRO Engineering Chair
Sue Gorkos	KG5GOE	N5TEX's YL and boss, and potential DX monster
David Siebert	KF5YZW	TRO member
Glen Brewington	AA5FM	TRO member
Brett Lackey	KF5YEY	Okmulgee County Emergency Management volunteer

**THE BIG PICTURE – News from Green Country Hamfest, ARES, Skywarn...**

**Tulsa Area Ham Radio Courses**

Two groups in the Tulsa area will be offering courses for those wishing to prepare for the Technician class license exam.

Broken Arrow Emergency Management will start their 10 week course on Thursday, 28 AUG 16 at the Broken Arrow Public Service Complex 1001 N 6th Street. For more information, contact Tony White, KA5TRO, at ka5tro@cox.net.

The Tulsa Amateur Radio Club will offer their course on 04, 11 and 18 AUG 16 in Jenks. For more information, contact John Carr, K5TBL at [K5TBL@ARRL.NET](mailto:K5TBL@ARRL.NET) or on Facebook.

**Listen for the ARES-Oklahoma Tulsa Regional Weekly Thursday Night Net**

2000 hrs (8:00 PM) Every Thursday Weeks 1-3: 147.39 (no PL); Weeks 4 & 5: TARC W5IAS UHF Superlink

System 443.850 (East Tulsa hub), 442.000 (Mannford), 444.600 (Mounds/ NW Okmulgee Co.), all with (+) offset and 88.5 PL.

Back- up: 146.880 (PL 82.5, 88.5 or 141.3)

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**Listen for the ARES Oklahoma HF Net @ 2130 hrs UTC (1630 CDT) Every Sunday**

7.260 MHz (alt freq 3.900 MHz)+/- QRM

**VE Test Sessions**  
*WALK-INS ARE WELCOME AT ALL SESSIONS!*

**Tulsa Repeater Organization**

Third Thursday of odd-numbered months, 1900 (7 PM)  
American Red Cross 10151 E 11th (11th & US 169) Tulsa, Oklahoma 74128  
Contact: Merlin Griffin WB5OSM at 918-520-7668 - leave message, or email: [WB5OSM@hotmail.com](mailto:WB5OSM@hotmail.com)  
Schedule for 2016: 15 SEP 17 NOV

**Broken Arrow Emergency Management**

First Saturday of odd-numbered months - 0930 to 1100 (9:30 to 11 AM)  
Broken Arrow Public Service Complex 1001 N 6th Street Broken Arrow OK 74013  
Contact: Skipper Smith, NQ2J at: [nq2j@mail.com](mailto:nq2j@mail.com), or 918-853-8118  
Schedule for 2016: 03 SEP 05 NOV

**Broken Arrow Amateur Radio Club**

Second Saturday of even-numbered months at 0930 (9:30 AM)  
Broken Arrow Public Service Complex 1001 N 6th Street Broken Arrow OK 74013  
Contact: Don Doyle AC5II at [AC5II@arrl.net](mailto:AC5II@arrl.net) or 918-379-0962  
Schedule for 2016: 13 AUG 08 OCT 10 DEC

**Rogers County Wireless Association** (New session in Owasso)

First Saturday of each quarter at 0900 (9:00 AM)  
Bethel Baptist Church 10705 E 86<sup>th</sup> St N, Room136 (133 overflow) Owasso, OK  
Enter at east doors from parking lot  
Contact: Phil Stephens, W5PTT at: [W5PTT@cox.net](mailto:W5PTT@cox.net)  
Schedule for 2016: 01 OCT

**Tulsa Amateur Radio Club**

Third Saturday of every month at 0900  
Pentecostals of West Tulsa 2124 W 41<sup>st</sup> Tulsa OK  
Contact: John Carr, K5TBL at [K5TBL@arrl.net](mailto:K5TBL@arrl.net) or (918) 289-1718  
Schedule for 2016: 20 AUG 17 SEP 15 OCT 19 NOV 17 DEC

**W5YI VEC SESSION**

Last Saturday of even-numbered months, 0945 (9:45 AM)  
Broken Arrow Public Service Complex 1001 N 6th Street Broken Arrow OK 74013  
Contact: Skipper Smith, NQ2J at: [nq2j@mail.com](mailto:nq2j@mail.com), or 918-853-8118  
Schedule for 2016: 27 AUG 29 OCT 31 DEC

**MAKING CONTACT – How To Find Out More About The Tulsa Repeater Organization**

**Our Website:** [www.tulsahamrdio.org](http://www.tulsahamrdio.org)

**Our Facebook:** <https://www.facebook.com/groups/TulsaRepeaterOrganization/>

**Our Yahoo Group:** <https://groups.yahoo.com/neo/groups/WA5LVT/info>

**Our Twitter:** <https://twitter.com/TulsaRepeaters>

## TRO OFFICER CONTACT INFORMATION

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Want more information about the Tulsa Repeater Organization or have questions about articles in the newsletter, contact us at email address [wa5lvt@tulsahamradio.org](mailto:wa5lvt@tulsahamradio.org) or write to:



**Tulsa Repeater Organization**

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