

"KAR" *Kansas Amateur Radio* "KAR"

February 2013 issue

w0oyh@arrl.net



Hi gang, I have made a change that I talked about last time, I have pulled the EC's ARES reports into the KAR newsletter. You will find them about 7 paged below. I have change dome banners by putting their photos in the banner instead of below it. I have also up-dated our <links> at the request of Kent.

◆ Orlan,

Please correct the links listed below my name. I developed the Skywarn page for thee Wichita NWS, and is not meant for all of Kansas, but it does contain good information for all spotters. Each NWS office has their own way of doing things. Kansas City definitely is much more organized and has requirements much greater than the Wichita NWS does for spotters. And please group the ones I submitted together. I know other people have submitted other links and they deserve to not be lumped under my name and call. If you can change that

to Links of Interest for Kansas Hams, then you can just correct their titles at the beginning. These are the only links I have provided
For Print Below*****

Kansas Section Extra and KAR's <http://ksarrl.org>
Kansas ARES Pages <http://ares.ksarrl.org/>
Kansas ARES Printable Map <http://ksarrl.org/ares/printit/> PDF is re-sizable

All Ham Radio Links, nothig but! <http://ksarrl.org/deeplink>
Skywarn is Wichita NWS Skywarn <http://www.ict-skywarn.org>
Kansas QSO Party <http://ksqsoparty.org>
Newton ARC <http://www.newtonarc.org>
Wichita ARC <http://www.warc1.org>

I am seeking help in making corrections to the Section appointments site. If I have listed anyone that is deceased or is no longer in the position mentioned, I can be contacted by the e-mail on that page.

Kansas Section Appointments <http://ksarrl.org/section/>

◆ I got this from Myron WØPBV who recently retired from the EC job.

It makes me feel bad -- and look bad in the eyes of everyone else when you list me/WØPBV as ARES EC for Riley County and then say I didn't turn in a monthly ARES report.

SRI Myron! I knwe you had retired but I had one of those sr. moments after, all I am 81. All I can say is we could use a lot of ECs like you. Faithful to your community and to ham radio.

◆ This is for you older KC hams. I went to a friend's birthday and his neighbor was there. He was my favorit weather man on Ch-4 until he retired. His TV name Initials are D. H. I had a nice chat with him. How

many of you can tell me his name? Let me hear from you. w0oyh@arrl.net



◆ **WWW** >>> <http://phys.org/news/2013-03-code-boost-reception-radio-controlled-clocks.html#jCp>

◆ WWII secret <http://www.youtube.com/watch?v=Nv9IBqPVuoE&feature=uploademail>

ARRL Midwest Directors newsletter. <http://www.arrlmidwest.org/newsletter/newsletter.pdf>

Links for Kansas hams! TNX to Kent KBØRWI

ARRL http://www.arrl.org/
Kansas Section Pages and KAR's http://ksarrl.org
ARRL Midwest Director's newsletter http://www.arrlmidwest.org/newsletter/newsletter.pdf
Kansas ARES Pages http://ares.ksarrl.org/ .
Kansas ARES Pages http://ares.ksarrl.org/
Kansas ARES Printable Map http://ksarrl.org/ares/printit/ PDF is re-sizable
All Ham Radio Links, nothig but! http://ksarrl.org/deeplink
Skywarn is Wichita NWS Skywarn http://www.ict-skywarn.org
Kansas QSO Party http://ksqsoparty.org
Newton ARC http://www.newtonarc.org
Wichita ARC http://www.warc1.org
Ensor Museum http://www.ensorparkandmuseum.org/
S. A. T. E. R. N. http://www.SATERN.salvationarmy.us
Kansas ARRL Section News http://www.arrl.org/Groups/view/kansas
Midwest Division Home page http://www.arrlmidwest.org/
KC ham Info http://www.kchams.net/larrys_list.html

NF9L KC page <http://kchamradio.com/>

"Orlan's Biblical Notes" <http://home.everestkc.net/orlan/#top>

Until next month, the best of 73, Orlan WØOYH – dit dit

ARRL Midwest Director Cliff Ahrens KØCA



ARRL Midwest Division
Director: Cliff Ahrens, KØCA
k0ca@arrl.org

Director: Cliff Ahrens KØCA
k0ca@arrl.org 573-221-8618



The ARRL Midwest Division March 2013 Newsletter is now available on the Division's Web page. Here's the direct link:

<http://www.arrlmidwest.org/newsletter/newsletter.pdf>

(If this month's newsletter doesn't open, try refreshing the page, in case your browser is loading a cached copy of a previous newsletter).

Highlights this month:

- Nebraska ARRL State Convention - March 16 - Lincoln
- Boone County, Iowa 8-Year Old Becomes New Ham and ARRL Member
- Iowa Gets New Section Manager April 1 - Bob McCaffrey K0CY
- Around the Midwest Division
- Cliff's Notes
- 2013 ARRL Midwest Convention Update
- Midwest Division Special Events
- Midwest Division ARRL Hamfests, Conventions & Events
- Midwest Division Leadership Team Volunteers


The newsletter is a PDF file which contains a number of pictures, graphics, and links to Web pages and email addresses. Just click on any of the links to go directly to the Web page or send an email. If you have trouble opening the PDF file, you can download the latest version of the free Adobe Reader software at:

<http://get.adobe.com/reader/>.

If you have news and photos about events or activities from the Midwest Division, email them to me at cliff.ahrens@gmail.com or k0ca@arrl.org. I will try to include as many as possible in upcoming editions of the Midwest Division News. Thanks!

73, Cliff K0CA

ARRL Midwest Division
Director: Cliff Ahrens, K0CA
k0ca@arrl.org

	<p>ARRL Ks Section Manager – Ron KBØDTI</p> <p>KBØDTI@arrl.org</p>
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Kansas Section News Summary January 2013

We are still in winter but plans are being made for our Kansas Convention this fall. WA0PSF-Ron and the Central Kansas ARC have moved the convention to Webster Convention Center, North side of I-70 at Ohio exit. Same weekend (Aug 17-18) but a dinner on Saturday evening now becomes possible at that location and Lunch will also be available. These dining options require a minimum number of reservations in order for the function to happen. Please mark this on your calendar. The new location has plenty of space for fleamarket and meetings. More info will be available as we get closer.

<http://www.centranksar.com/>

The ARRL Education & Technology Program has scheduled two Teachers Institutes for 2013. Both will be in July, one at HQ and the other in California. Applications are being accepted for teachers to take part in the program. The goals of the Teachers Institute are for the students(teachers)

to learn basic electronics and radio at a Technician level and introduce them to satellites, space technology and robotics. Tuition and most expenses are covered by donations to the ARRL Education & Technology Fund. If you have a school teacher in mind that would benefit from this and in turn bring it home to their classroom then please consider steering them toward this opportunity.

More information can be found here: www.arrl.org/teachers-institute-on-wireless-technology

I would think there are some Kansas teachers that would be excited about the possibilities.

73,

Ron

	<p style="color: white; font-weight: bold; margin: 0;">CW</p> <h1 style="color: red; margin: 0;">QKS</h1> <h2 style="color: black; margin: 0;">The ARRL – NTS – Ks “CW” tfc net</h2> <h3 style="color: red; margin: 0;">James NBOZ Mgr.</h3> <p style="color: white; font-weight: bold; margin: 0;">nb0z@ arrl.net</p>
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QST... Calling all radio amateurs! Dust off that straight key, bug, electronic keyer paddles or computer keyboard and join us on QKS, the Kansas CW traffic net, each evening at 7:00 and 10:00 on or near 3547 kHz. Jump right in, or if you prefer, listen to a session or two in advance of checking in to get a feel for how the net flows. The procedures are few in number and simple to learn, so no worries. We take traffic to and from the tenth region net, so your out-of-section traffic is welcome. Looking forward to hearing you on QKS!

73, James


QKS QNI (check-ins)

(NCS) Net Control Stations and Liaison stn

KØBJ Bruce Colby KbØDTI Ron – LaCygne ADØDX, Ron – Kc, Mo. ACØE, Jim – Garden City WEØEB, Jim Park City WDØESF, - Ks WØFB Dave – St Jo, Mo. WØFCE Bill – Mo. WAØFKD, Emory – KCK KA5KMS, Terry – Miss. KKØHK Ken - Topeka AEØG, Larry – Mo.	KIØI ??? AAØIQ, Claud – Glasco KØNK, Jim - Gardner KIØS, Mark - Mo WØOYH, Orlan - Shawnee KØPY, Mike – Park City WØRT, Rick - Parson, Ks. WØVMP, Van – Manhattan ABØWR, Tim – Topeka ABØXM, Donald - NBØZ, James - Atchison WBØZNY, Tom – O P WØZIZ, Dan - Gardner KBØZQO, Kevin -	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Day</th> <th style="text-align: left; border-bottom: 1px solid black;">7Pm Net</th> <th style="text-align: left; border-bottom: 1px solid black;">10 PM net</th> <th style="text-align: left; border-bottom: 1px solid black;"><u>Liaison to higher nets</u></th> </tr> </thead> <tbody> <tr> <td>Sunday</td> <td>---NBØZ----</td> <td>NBØZ-----</td> <td>NBØZ</td> </tr> <tr> <td>Monday</td> <td>---NBØZ----</td> <td>WØOYH-----</td> <td>NBØZ</td> </tr> <tr> <td>Tuesday</td> <td>--NBØZ----</td> <td>NBØZ-----</td> <td>NBØZ</td> </tr> <tr> <td>Wednesday</td> <td>NBØZ----</td> <td>NBØZ-----</td> <td>NBØZ</td> </tr> <tr> <td>Thursday</td> <td>NBØZ----</td> <td>NBØZ-----</td> <td>NBØZ</td> </tr> <tr> <td>Friday</td> <td>---NBØZ----</td> <td>WØOYH-----</td> <td>NBØZ</td> </tr> <tr> <td>Saturday</td> <td>NBØZ----</td> <td>WØOYH-----</td> <td>NBØZ</td> </tr> </tbody> </table>	Day	7Pm Net	10 PM net	<u>Liaison to higher nets</u>	Sunday	---NBØZ----	NBØZ-----	NBØZ	Monday	---NBØZ----	WØOYH-----	NBØZ	Tuesday	--NBØZ----	NBØZ-----	NBØZ	Wednesday	NBØZ----	NBØZ-----	NBØZ	Thursday	NBØZ----	NBØZ-----	NBØZ	Friday	---NBØZ----	WØOYH-----	NBØZ	Saturday	NBØZ----	WØOYH-----	NBØZ
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We have liaison stations coming from other nets like The Kansas Sideband net with messages called traffic (tfc). That 7 pm tfc will be picked up and carried to this net and a liaison here will take it to the next higher net, the Tenth Regional, (TEN) than on to Central Area Net, (CAN) and on to special group of hams, the “TCC ops,” the Trans Contented Corp. who have per-arranged skids with east and west coast hams to move the tfc to the east and west coast. By 10 pm tfc is coming in from the east and west coast. I have been a CW (code) NCS, (Net Control Station) for abt 40 years on this and other nets to move tfc and keeping the net alive for future hams. As you can see above there are not many of us left to do the job. Just a skeleton in need of some meat, hi hi. Come and visit us at 7pm

and 10 pm on 3547 Khz. We also have a Slow Speed net, QKS-SS Managed by our ARRL Ks Section mgr, Ron KBØDTI, kb0dti@arrl.org try it, they go real slow. BCNU! Orlan w0oyh@arrl.net and James nb0z@arrl.net dit dit



Kansas State RACES Officer
Herb NZØF
nz0f@arrl.net
Kansas RACES Report

First of all, thank you to all the operators around the state that have sent me kindnotes of congratulations for my recent appointment as the state RACES officer. I appreciate the interest in RACES and glad to know there are so many interested in increasing RACES involvement in the state. I will be reaching out to a lot of those same folks in the near future for assistance as we clarify our plans.

I also had the pleasure to meet Joseph WDØDMV while I was in Topeka recently. Joe deserves a lot of credit and our gratitude for the work he has done around the state and with the Kansas Division of Emergency Management for the many years he was in this position. I was honored to meet him and wish him well in his future endeavors.

The 2nd big snowstorm of the month turned out to be a good opportunity to put RACES members to work, as both the Montgomery County and Johnson County RACES group convened informal nets to gather information about the storm as it developed. We also monitored 3940 KHz during the event and checked in with one another a few times overnight. Remember that we have re-started the Kansas Emergency Preparedness Net on 3940 KHz (+/-) on the first Thursday and third Tuesday of each month. I will call the first Thursday net in March from my QTH in Overland Park and Stan WAØCCW is scheduled to call the 3rd Tuesday net from his home near Beloit. We will also continue to use that frequency as a way to keep in touch around the state during significant weather events.

A couple of developments to note from February –

1. The new RACES Communications Plan has been formally accepted and signed by me and Jonathan York of the Kansas Division of Emergency Management. We'll be making copies of that plan available on-line very soon and will be eager to discuss its contents in future KAR articles, meetings with existing and prospective RACES groups and at the State Convention in August.

2. We've opened a couple of social media outlets to help connect state RACES members and organizations and to help get information about the State RACES plan out to folks that are interested.

You can join the "KSRACES" Yahoo group on line by going to the following URL:

<http://groups.yahoo.com/group/ksraces>

We will use this group for dissemination of information, including the new State RACES plan.

We have a Facebook page – just search Facebook for RACES Kansas and “like” that page. Postings about local RACES activities will be welcome and pictures will be appreciated.

That’s about all I have for this month. I’ll look forward to talking to more RACES members and interested operators in the coming months and will try to get out to some of the County RACES meetings once the snow melts.

73

Herb NZ0F nz0f@arrl.net



◆ **Zone 1B - Bill KC0NFL**

Monthly DEC/EC Report

Jurisdiction: _____ Month: _____ Year _____
_1B _____ Feb _____ 2013 _____

AMATEUR RADIO EMERGENCY SERVICE

Total number of ARES members: _16_____ Change since last month: ___-3___(+, -, or same)

Local Net Name: __Douglas County ARES Net_____ Total sessions _8_____

NTS liaison is maintained with the _____ Net

Number of drills, tests and training sessions this month: _8_____ Person hours __8.75__

Number of public service events this month: _0_____ Person hours __0__

Number of emergency operations this month: _0_____ Person hours __0__

Total number of ARES operations this month: _8_____ Total Person hours __8.75__

Comments:

We continued a second ARES net on the Kansas talkgroup of the DMR network. It covers the Kansas City, Basehor, Lawrence and Hays areas. As more repeaters are added to the system it will grow. The new net is immediately following the conclusion of the 2m net at 2000 Hrs on Sundays and everyone is welcome to check in. Nothing new for the beginning of the year. I am collecting information for the upcoming events this year.

73, Bill kc0nfl

Signature: _William L Musick_____ Title: (EC or DEC) _EC_____ Call sign: _KC0NFL_____

Please send to your SEC or DEC as appropriate by 2nd of the month FSD-212 (1-04)

◆ **Zone 1D – Francis W ØEVJ Pottawatomie & Jackson Co. - Francis WØEVJ**

February 28, 2013 ARES Net Report to KS DEC & SEC

Total no. of ARES members: 8 Change since last month: 0

Local Net name: Pottawatomie & Jackson Co, ARES Net

Repeater: KØHAM 146.955-/88.5

ARES/RACES Net: Thursday 1930 LCT

QNI: 37 QTC: 0 No. of sessions: 4 Person operating hours: 11 hr 30 min

Stations Participating:

4 Sessions:	W0EVJ	N0OVT	WV0R		
3 Sessions:	KC0RRS				
2 Sessions:	KC0RYF	AC0CY	KC0HI	N0MNG	WQ0P
	NG0H				
1 Session :	KD0ARN	KC0NFS	KD0NQQ	KD0QXY	W0RCT
	KC0SGW	W0WJB	WA0IKA	KC0PDY	KC0STI

Liaison with other nets: MAARS Manhattan 2m by W0EVJ

No. of ARES drills, test & training sessions: 5 Person op. Hours: 12 hr 05 min

No. of drills/Emergency sessions: 0 Person op. hours:

No Public Service events; 0 Person op. hours:

Comments: EC Francis Sable W0EVJ is net control using battery power.
EC Francis gives a brief tutorial in emergency comm at each session
EC W0EVJ monitors 146.52
EC W0EVJ participated in the Manhattan (MAARS) Field day event

Zone Delta 1: EC W0EVJ Francis Sable (785)-456-9154

Report by: Asst EC WV0R Herm Belderok (785)-437-3077 wv0r@oct.net

cc: Ron Cowan KB0DTI <kd0dti@arrl.org>
Francis Sable W0EVJ<fsable@kansas.net>:
Chris Trudo<ctrudo@pottcounty.org>

Orlan Cook W0OYH<orlan@everestkc.net>:
Fulmer, Phyllis
John D'Aloia<seesaw@oct.net>

◆ **Zone 2A – David KØKSI**

◆ **Zone 2B – Stan WAØCCW**

◆ **Zone 3B – Bill AAØOM**

District 3B Phillips and Norton County ARES conducted 4 nets on the AA0HJ and KD0ARW linked repeaters during February. QNI 32, QTC 0, Time 47 Minutes. No further activities to report.

Participating stations: AA0OM, KD0CJF, AA0ND, KD0ARW, N0LL, N0RLT, KB0QGT, KB0QDT, K0DTS, AA0QO, AND AA0HJ

73'S
Bill AA0OM

◆ **Zone 4A – Brian KCØBS**

FEBRUARY 2013 MONTHLY ARES REPORT TO DEC & SEC

Total of ACTIVE ARES members: +0 133

Local Net Name: Johnson County ARES

Emergency Coordinator = Brian Short KC0BS 913-638-7373
Alternate Emergency Coordinator = Jim Andera K0NK 913-884-6613

Assistant Emergency Coordinators:
Steve Rainey WD0DPB - Spec Events
George McCarville WB0CNK - Training, Drills
Matt May KC4WCG - IDs, MECC
Bill Gery KA2FNK - Recruiting, Technology

Darren Martin N0MZW - Net Manager
Stan Frear KA5WEI - Membership
Del Sawyer K0DD5 - CERT
Duncan Maclachlan KU0DM - Rapid Response, Youth Outreach
Denny Healzer KC0ZDS - KCHEART

NTS liaison is maintained with the KS SSB Net:

Dan Reed N0ZIZ	Jim Andera K0NK
George McCarville WB0CNK	Jim Cordill KI0BK
Debbie Britain AB0UY	June Jeffers KB0WEQ
Rich Britain N0ENO	Terry Reim WA0DTH
Wretha Galeener KC0HHO	

NTS CW Net: Dan Reed N0ZIZ

Net Sessions: 35

QNI: 282

QTC: 12

4 nets = 2 Meter Voice

4 nets = CW

4 nets = 6 Meter

4 nets = 2 Meter Voice Simplex

4 nets = PSK 31 SATERN

3 nets = Conference Bridge Packet

4 nets = 70CM

4 nets = 1.25 Meter

4 nets = SATERN 80 meter SSB

Report prepared by:

Darren Martin N0MZW

Johnson County Kansas

◆ Zone 4C - Paul KC0JQC

Mar 9 - 2013 Severe Weather Symposium - KU Memorial Union Information: <<http://bit.ly/DCEMSymposium>> 1301
Jayhawk Blvd., Lawrence, KS <<http://www.facebook.com/DCEMSevereWeatherSymposium>>
<http://www.douglas-county.com/online_services/em/volunteering/symposium/em_symposium.aspx> or
<<http://tinyurl.com/bavg3c8>>

Total ARES members: 44

ARES Net Information:

ARES

- ARES/RACES NET 145.330 (-) N0KOA RPT Thursday 1930 LOCAL
- LEAVENWORTH COUNTY ARES NET; 147.000 (+) KS0LV RPT Sunday 1930 LOCAL
- W0ROO UHF Net 444.8 (+) Sunday 1900 LOCAL

Non-ARES Net Information:

- PKARC NET 147.000 (+) KS0LV RPT Wednesday 1930 LOCAL

Important Points of Contact:

Leavenworth County ARES EC - Paul Backs, KC0JQC

NTS Liaison: Paul Backs, KC0JQC

Official Emergency Station: Rick Reichert - KF4LM/Paul Backs – KC0JQC (Temporary)

Army MARS Liaison: Ric Nelson - KA3LOC

Navy/Marine Corps MARS Liaison: Ed Menard – KD7QOR

President of PKARC (Club Call KS0LV): Dick Quinlan – KA0DJR

Assistant Emergency Coordinators for Zone C4 ARES:

Gary Auchard, WB0MNA w0ebb@juno.com

Susan Backs, KC0JCR sunshine223@mindspring.com

Mac McConnell, W0ROO w0roo@att.net

Ric Nelson, KA3LOC KA3LOC@aol.com

Dick Quinlan rquinlan8228@hotmail.com

Rick Reichert, KF4LM signaleer@earthlink.net

Mike Stewart, N0TU mh60pilot@gmail.com

Doug Thomas, KC5VKG kc5vkg@yahoo.com

Monthly Activity:

NETS: See attachment below

QNI (ARES): 69 QTC (ARES): 11

QNI (Non-ARES): 15 QTC (Non-ARES): 4

*Non-ARES is Pilot Knob Amateur Radio Club unless noted otherwise.

Public Service Activities (see comments below):

NTS Traffic:

Originate: 00

Sent: 00

Received: 00

Delivered: 00

Total: 00

Douglas County, KS Emergency Management is pleased to announce that our 2013 Severe Weather Symposium will be held on March 9, 2013, at KU Memorial Union in Lawrence, KS. The Save-the -Date is attached!

Stay informed of the latest updates by visiting our symposium website at <http://www.douglas-county.com/sites/symposium> or our Facebook page at www.facebook.com/DCEMSevereWeatherSymposium.

73s,

Paul Backs, KC0JCQ

Zone C4 E.C., Leavenworth County, Kansas

Phone: 913-651-0023

Cell: 913-547-2233

Email: qb223@mindspring.com; pbacks@kc.rr.com;

Net Activity:

444.800 3 Feb 13 ARE Net KC0JCQ, KC0VRN, KC0RRS, KC0RYF, KD0BKH, KD0BZI, W0RCT, KD0IWM; NCS W0ROO

QNI: 8 QTC: 1 TOTAL CHECK-INS: 8 MESSAGES HANDLED: 0

147.000 3 Feb 13 ARES Net KC0JCQ, KD0IWM, W0ROO, KF4LM, KC0RRS, KC0RYF, KD0BKH, KD0BZI, W0RCT, AA5TS, NC: KC0VRN

QNI: 10 QTC: 1 TOTAL CHECK-INS: 10 MESSAGES HANDLED: 0

147.000 6 Feb 13 PKARC Net KA0DJR, KC0PDY, W0RCT, N0CKI, NC: KC0VRN

QNI: 4 QTC: 1 TOTAL CHECK-INS: 4 MESSAGES HANDLED: 0

147.000 7 Feb 13 ARES Net Club Meeting – No Net

QNI: 0 QTC: 1 TOTAL CHECK-INS: 0 MESSAGES HANDLED: 0

444.800 10 Feb 13 ARE Net KF4LM, KC0JCQ, KC0JCR, KC0RYF, KC0RRS, KA0DJR, KD0IWM, W0RCT, NC: KC0VRN

QNI: 8 QTC: 1 TOTAL CHECK-INS: 8 MESSAGES HANDLED: 0

147.000 10 Feb 13 ARES Net KF4LM, KA0DJR, KD0IWM, KC0JCQ, KC0JCR, KC0RRS, KC0RYF, KD0BKH, KD0BZI, W0RCT, NC: KC0VRN

QNI: 10 QTC: 1 TOTAL CHECK-INS: 10 MESSAGES HANDLED: 0
147.000 13 Feb 13 PKARC Net W0RCT, KD0IWM, W0MNA, NC: KC0VRN
QNI: 3 QTC: 1 TOTAL CHECK-INS: 3 MESSAGES HANDLED: 0
147.000 14 Feb 13 ARES Net KC0VRN, N0CKI. NCS, KA0DJR
QNI: 2 QTC: 1 TOTAL CHECK-INS: 2 MESSAGES HANDLED: 0
444.800 17 Feb 13 ARES Net KC0NFS, KC0RYF, W0RCT, NC: KC0VRN
QNI: 3 QTC: 1 TOTAL CHECK-INS: 3 MESSAGES HANDLED: 0
147.000 17 Feb 13 ARES Net KC0NFS, KA0DJR, KC0RRS, KC0RYF, W0RCT, KD0BKH, KD0BZI, NC: KC0VRN
QNI: 7 QTC: 1 TOTAL CHECK-INS: 7 MESSAGES HANDLED: 0
147.000 20 Feb 13 PKARC Net W0MNA, KA0DJR, W0LYQ, KD0IWM, NC: KC0VRN
QNI: 4 QTC: 1 TOTAL CHECK-INS: 4 MESSAGES HANDLED: 0
147.000 21 Feb 13 ARES Net W0MNA, KC0VRN, KF4LM, KD0IWM, WBOIEL. NCS, KA0DJR
QNI: 5 QTC: 1 TOTAL CHECK-INS: 5 MESSAGES HANDLED: 0
444.800 24 Feb 13 ARES Net KC0VRN, AA5TS, KD0IWM NC: KF4LM
QNI: 3 QTC: 1 TOTAL CHECK-INS: 3 MESSAGES HANDLED: 0
147.000 24 Feb 13 ARES Net KC0JCQ, KF4LM, KA0DJR, KC0VRN, AA0PU, KD0BKH, KD0BZI, KC0RRS, KC0RYF, KD0ARN, NC: KD0IWM
QNI: 10 QTC: 1 TOTAL CHECK-INS: 10 MESSAGES HANDLED: 0
147.000 27 Feb 13 PKARC Net KA0DJR, KC0PDY, WB0IEL, KD0IWM, NC: KC0VRN
QNI: 4 QTC: 1 TOTAL CHECK-INS: 4 MESSAGES HANDLED: 0
147.000 28 Feb 13 ARES Net KC0VRN, W0LYQ, KD0IWM. NCS, KA0DJR
QNI: 3 QTC: 1 TOTAL CHECK-INS: 3 MESSAGES HANDLED: 0

◆ **Zone 4D - Bruce AAØX**

◆ **Zone 4D - Mike KCØNFG**

ARES 4-I REPORT --FEBRUARY, 2013

ARES 4-I :25 MEMBERS

REGULAR VHF NET 4 / CHECKIN /63 : TRAFFIC / 1
SKY WARN /TORNADO WARNING: NET 0 / CHECKIN / 0, TRAFFIC / 0
KS SSB NET LIAISON/ AA0DF
AFMARS LIASON/ K0UER/ AFA7VP, KC0NFG/ AFA7MP

LOCAL EARS REPEATER: EMPORIA, KS./ K0HAM 146.985 T 88.5 / SIMPLEX 146.580
147.045 T88.5/ K0HAM LINK SYSTEM @ MATFIELD GREEN
70CM REPEATER: 443.000 + PL TONE 103.5 K0ESU REPEATER

SIGNED: MICHAEL PATE/KC0NFG
ARES 4-I E.C.

◆ **Zone 6E – Rod KØEQH**

Kansas ARES Zone 6E, A & G Net Report February 2013

Total Nets.....4

Total QNI.....32

Total QTC.....1

Stations participating: WBØQYA, ACØE, KDØCYE, NØKQX, NØOXQ
NØOMC, KCØAMF, KDØDWM, KØEQH

Rod KØEQH
NCS

SATERN Newsletters



S.A.T.E.R.N.

Salvation Army Team Emergency Radio Network

The SATERN newsletters are achieved at <http://www.sftarc.org/html/satern.html> The Santa Fe Trail ARC records the newsletter in WORD 2010 & PDF. Please feel free to read or download.
ARRL trained PIO

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The Santa Fe Trail Amateur Radio Club

presents for the Fourth Year

its Monthly Newsletter for your pleasure & information...

March 2013 Newsletter

Latest Newsletter waiting for you.

<http://www.sftarc.org/html/satern.html>

9 year old ham talks to Space Station, "ISS"

AE7MC, Mattie Clauson, Roseberg, OR.

-----EXTRA CLASS!!!!-----

Friday November 25, 2005 HI, My name is Mattie. I am Nine years old now. I have really wanted to be able to talk to an astronaut on the ISS someday and now I have been able to have a very short qso with Commander William McArthur today. It was very short - I called and he answered just as the pass faded out. Now I want to try all that much more! I LOVE ham radio (more than peanut butter and jelly sandwiches)!!! I got my Tech license when I was 5 years old and then I studied real hard and tried to pass the general written test. It was hard and I missed it by three too many questions. I studied more and I passed it on my third try! Next, I was studying for my extra class license. That is a real hard test! I had tried the extra class test already but I needed to study more. I have passed practice tests, but I had trouble putting my test down on paper. I knew that if studied really hard, I could do it. AND NOW I DID IT!!!! If I could do it, other kids can also. I think that any !

kid who wants to get their license should try because they will get it. It is so much fun. I have been able to talk to people in Japan, the Phillipines, in Kamchatka, Siberia (Russia), Palau, New Zealand, Rarotonga and many other places. I have also gotten to talk to the battleship Missouri and to a lighthouse in Canada. It is so very interesting to meet people from other countries and talk to them. There is now a cross band repeater inn the International Space Station and it is really exciting to be able to talk to people on it. One dayI talked to KE6OAG and earlier in the day, I was able to talk to a person in Alberta, Canada! I am a member of the ISS Fanclub, membership #897. I am learning PSK31 and it is really fun also. fun. I can talk to people with PSK31 when we can not even hear voices on the band. It is really neat. I like to use 20 meters (14.070 plus or minus a little) during the daytime and 40 or 80 in the evenings. Maybe I can talk to you on PSK31.

THE SPECIAL MILITARY ACTIVE-RETIRED "TRAVEL CLUB"

S*M*A*R*T
Special Military Active
Retired Travel Club

http://www.smartrving.org/files/Jan_Feb_2013TRAVELER.pdf <<<OPEN



<http://www.smartrving.org/> <<<CLICK

Western Kansas 160 meter net

The Western Kansas 160m net will be tonight on 1.944 LSB at 8 PM Mountain time. the topic tonight as suggested by Paul (KB0WI): "What was the last thing you bought at a ham fest?" My answer " lots of junk box parts" last Saturday at Rapid City SD. thank you Paul for your suggestion, and of course your wonderful hospitality while I was in RC.

See you on the Air!

73,

Matt, KD0Ezs

◆ the western Kansas 160m net will be tonight on 1.944 LSB starting at 8 PM mountain time. tonights topic will be: what year was the first call book Published? tonights topic question and answer is provided by John (w0cem), thank you John! the answer will be given at the end of the net.

see you on the air!

73

Matt, kd0ezs

◆ tstart: 8 PM, ending 8:55 pm mountain time.

topic: what year was the first call book published? answer 1909. <http://en.wikipedia.org/wiki/Callbook> thanks John (w0cem) for the topic suggestion!

we had 27 check in's from 9 states.
thank you everyone for checking in tonight.

call, name, answer

k0eqh rod 1920 (via email), wa0vjr butch ? n0bf steve ? n0igz frank ? n0igu john ? kc9vf marv ? n0nb nate 1913 ac5hm cal ? n0rmb garry 1913, w7jsc steve 1918 w0krt kurt ? w5jo jim 1925-26, k0oj oj 1920, k0as arne 1921, n3cmi ed 1920, n0jvh jeff 1921, k0rz bill 1920, w5vxe ted 1920, kg5dx paul ? wa0uxi bob 1909, ag5s alden 1928, n0dqs gene 1909, n0dff steve 1922, kc0yvw tom ? kd0msb charles 1922, k9gaj fred 1928, k0wpm dad 1920.

◆ tcharles kd0msb is looking for a transformer for a AL-80a or b, also he said one from a heathkit sb-1000 would work.

if you have one you want to get rid of email me with a price and ill pass it on to him.

Hello Western Kansas 160m group.

It saddens me to report that John Stanesic (w0cem) went SK on Thursday Feb. 21, 2013. I was not aware of this last Tuesday, as you may recall, John suggested our topic last net.

More about Johns life and family can be read here : <http://www.penwellgabeljunctioncity.com/obituary.aspx?src=choice&obitid=65520&name=John+R.+Stanesic%2C+D.D.S&city=Junction+City&st=KS>

John will be sorely missed on our 160 meter and next week the net will be held in his Memory. Please plan on joining the net as we say goodbye to our fellow ham friend.

73 John W0CEM.

73 everyone,
Matt, kd0ezs

SILENT KEYS "SK"

◆ Michael Gene Payton, 67, passed away February 20, 2013, at home. A memorial service will be held at 6 p. m. Monday, Feb. 25, followed by a visitation at D. W. Newcomer's Sons Johnson County Chapel, 11200 Metcalf Ave., Overland Park, Kan. Mike was born Sept. 29, 1945, in Kansas City. He was a Vietnam Veteran and considered himself to be a "Jack of all trades but a master of none." He was everything from a radio DJ to an electrician to a draftsman in the Army. His favorite past times included collecting paper money and Vietnam artifacts and spending time with his grandchildren. Survivors include his daughter, Patricia and her husband Terry Sutton, daughter, Michelle Irvine, his grandchildren, Skeye Soll, Rylan Sutton, Hunter Sutton, Abigail Sutton, Joshua Sutton, Kaitlyn Sutton, and Chloe Irvine, and a great granddaughter, Savannah Soll. As well as his brothers, Ray, Charles, John, Mark and James Payton, sister, Mary Buckingham and many nieces and nephews. The family suggests !

contributions to the Vietnam Veterans of America, Chapter #317, Heart of America, 3027 Walnut Street, Kansas City, MO 64108. Fond memories and condolences for the family may be left at <<http://www.johnsoncountychapel.com>> Arr. : D. W. Newcomer's Sons Johnson County Chapel, 11200 Metcalf Ave., Overland Park, KS 66210 (913) 451-1860. <<http://www.dwnewcomers.com>> Published in Kansas City Star on February 24, 2013

<<http://www.legacy.com/obituaries/kansascity/obituary.aspx?n=michael-gene-payton&pid=163253514#storylink=cpy>>

The Kansas State Convention - Salina Kansas

August 18, 2013

Home pg <http://www.centalksarc.com/>

Convention pg http://www.centalksarc.com/12_kansas_convention.pdf

For a HB map of Salina and Convention place, w0oyh@arri.net

HA-HA-HA-HA

◆ About twenty years ago, at our Saturday morning breakfast, Santa Fe Trail Amateur Radio Club encountered an officer who evidently thought he had discovered the “GREAT KANSAS LICENSE PLATE COUNTERFEITING RING”. He pulled over the teenage son of a ham, also a ham, in the parking lot at what used to be “Waids” in Olathe. The reason was a teenager running a YELLOW LIGHT.

Not knowing what a HAM plate was he spent about 10 minutes with the youngster, drove around to the other side of the building and discovered 15 -20 other “INVALID” plates. He backed into a parking spot and as the person with a “Ø” in the license plate came out & backed out of their parking spot, he pulled them over, ran their plate as an ”O”, told them they had invalid plates, wanted their registration, called that in then let that person go. He then repeated this with each person backing out until the rest left in a bunch while he was hassling me. We still get a big laugh out of this event whenever it is brought up.

Mike Costello – KBØISQ <snip> “LL”
<mcostello25@att.net>

Aging:

Eventually you will reach a point
when you stop lying about your age
and start bragging about it. This is so true.
I love to hear them say "you don't look that
old.."

GETTING OLDER

A distraught senior citizen
phoned her doctor's office.

"Is it true," she wanted to know,
"that the medication
you prescribed has to be taken
for the rest of my life?"
""Yes, I'm afraid so,"" the doctor told her.
There was a moment of silence
before the senior lady replied,
"I'm wondering, then,
just how serious is my condition
because this prescription is marked
'NO REFILLS'."

**EVER WONDER WHAT TWO FEET OF SNOW
LOOKS LIKE ??**

WELL---- HERE IT IS----



◆ Windows vs. Ford

For all of us who feel only the deepest love and affection for the way computers have enhanced our lives, read on. At a recent computer expo (COMDEX), Bill Gates reportedly compared the computer industry with the auto industry and stated,

"If Ford had kept up with technology like the computer industry has, we would all be driving \$25 cars that got 1,000 miles to the gallon."

In response to Bill's comments, Ford issued a press release stating:

If Ford had developed technology like Microsoft, we would all be driving cars with the following characteristics (and I just love this part):

1. For no reason whatsoever, your car would crash.....twice a day.
- 2.. Every time they repainted the lines in the road, you would have to buy a new car.
- 3... Occasionally your car would die on the freeway for no reason. You would have to pull to the side of the road, close all of the windows, shut off the car, restart it, and reopen the windows before you could continue. For some reason you would simply accept this.
- 4.... Occasionally, executing a maneuver such as a left turn would cause your car to shut down and refuse to restart, in which case you would have to reinstall the engine.
- 5..... Macintosh would make a car that was powered by the sun, was reliable, five times as fast and twice as easy to drive -

but would run on only five percent of the roads.

6..... The oil, water temperature, and alternator warning lights would all be replaced by a single "This Car Has Performed An Illegal Operation" warning light.

I love the next one!!!

7..... The airbag system would ask, "Are you sure?" before deploying.

8..... Occasionally, for no reason whatsoever, your car would lock you out and refuse to let you in until you simultaneously lifted the door handle, turned the key and grabbed hold of the radio antenna.

9..... Every time a new car was introduced car buyers would have to learn how to drive all over again because none of the controls would operate in the same manner as the old car.

10..... You'd have to press the "Start" button to turn the engine off.

PS - I'd like to add that when all else fails, you could call "customer service" in some foreign country and be instructed in some foreign language how to fix your car yourself!!!!

Please share this with your friends who love - but sometimes hate - their computer!

LETTERS TO THE Ed

An early "dashcam" style film, showing a trip along Wilshire Blvd, Beverly Hills, California in the mid 1930's.

The rear facing camera captures many classic vehicles from the 1920s and 1930s including a Rolls Royce, a tow truck with a vehicle clearly damaged from an accident, and of course many Ford, General Motors & others` vehicles that were so common during this period.....

http://www.youtube.com/watch?feature=player_embedded&v=rkkjpDmf7zw

◆ Wayne Dothage, KC0WEG, <wdothage@kciinc.net> sent this message:

Battery University <<http://batteryuniversity.com/learn/>> seems to be geared more toward testing of production quantities of batteries, so would not apply to most hams. Yet. Like any new technology, this may evolve into units small and inexpensive enough that most of us could afford one.

Battery University has many articles on the selection, care and feeding of many types of batteries. A very interesting site.

This really looks interesting. Thanks, Wayne. Larry, W0AIB <snip> "LL"

◆ This sent to us by Harry Myers, K8IRB, <hmyers@massoc.com>

=====
<http://www.nytimes.com/2013/02/19/technology/chinas-army-is-seen-as-tied-to-hacking-against-us.html?emc=na&_r=0>

On the outskirts of Shanghai, in a run-down neighborhood dominated by a 12-story white office tower, sits a People's Liberation Army base for China's growing corps of cyberwarriors. "LL" <snip>

◆ I also have my ham call on both a truck and a car license. Never had any problem before, but remember that new DMV computer system that has caused so much trouble in Kansas? When my annual renewal notice came it only showed one vehicle. I normally do my renewals online, but without the notice I could not do anything. So I called the local office and when I explained things the nice lady on the phone said, "Oh, yours is one of those the computer does not know how to handle". She looked up my information via the VIN's, and told me what to handwrite on the one notice I had and to mail it in with a check for a certain amount. That worked but unless the computer programming is fixed it will be the same thing next year. I would expect that to be a very low priority on their fixit list.

George Yantis, K0GY
<k0gy@swbell.net> "LL"

=====

W0AIB Comment: I wonder why DMV, Kansas, created a system of having the same license on two different vehicles?

◆ A couple years ago I purchased a book called "License Plates Of America" at a local half price book store. (It is also available from Amazon: <<http://www.amazon.com/License-Plates-America-John-Northup/dp/0975880586>>). It has pictures of every license plate style available in every US State and each Canadian province. The amazing part is the number of different plates. Kansas has 42 different car and truck plates plus eight different motorcycle plates. Missouri has 63 car and truck plate styles. Every state has ham plates, and many of them, including Missouri, state "Amateur Radio".

George Yantis K0GY
<k0gy@swbell.net> "LL"

◆ **This month's lighting tip from Topbulb:**

Question: Why do some very similar LED light bulbs declare a 50,000 hour life and others, including Energy Star Qualified bulbs, only list 25,000 or 35,000 hours? How does a customer know what to believe and which is the best buy? There are two parts to the answer. First, if "rated life" is based on the absolute failure of the LED bulb – the point in time when the bulb emits no light ("is burned out"), then most standard LED bulbs will last around 50,000 hours. But, there is a big asterisk on that 50,000 hour number and this is the second part of the answer. At 4000 to 5000 hours of "on" time, the original light output of most LEDs has already dropped well below 100%. When manufacturers test their bulbs according to standardized industry procedures, the light output typically declines to an average of 92% of the original output by 6,000 hours. The decline continues and accelerates as the bulb ages. For an LED bulb to meet the requirements for Energy Star Qualified, the bulb must be tested to determine that it still has at least 70% of the original light output at 25,000 hours and that number can be listed as the rated life. Some manufacturers can get approval for listing higher rated life. If an Energy Star Qualified LED bulb lists a 35,000 hour life, for example, it has been tested for a longer period of time to determine that it will have over 70% of the original light output at 35,000 hours. Bottom line: with Energy Star Qualified LEDs, you know the bulbs have been tested and you know when the light output declines to the point that, even if the bulb is technically still producing light, it will be time to replace it. Topbulb carries many Energy Star Qualified LED bulbs.

Brian Cook, OM is OYH and works at ES – KC

◆ Larry - to add to the note below, for those who like a bit more information - here's a YouTube video of what this contest sounds like. This one is from an operator on the other side of "the pond" in Ireland. This will give folks a better idea of how to work this contest and the pace of contesting operations in general.

<<http://youtu.be/4ugRxOQ2KAI>> **a gud example of our hobby of contesting.**

Thanks,

Herb Fiddick, NZ0F
<hfiddick@gmail.com>

Tom's Key Strokes - WØEAJ

Denver, Co. Displaced Kansas Neighbor
and very gud friend!



◆ **From my friend Don Thomas - WØPEA (Wichita)... a lot of good info, here.**

Battery Information Table of Contents, Basic to Advanced

<http://batteryuniversity.com:80/learn/>

◆ <http://www.yugop.com/ver3/stuff/03/fla.html>

Hand made digital clock **It really works and working.**

◆ <http://www.d8apro.com/>

Yep, these are the folks who bought up the rights - BUT.... you can get 'em from here.

◆ Watching a humming bird PURPOSELY fly inverted, doing acrobatics.. THAT... was a revelation. Watch in particula the bats. There is one that is carrying a baby bat on her abdomen - outstanding. Well done, and quite beautiful. The beauty of pollination – YouTube Be sure and click the "Watch in HD" after it starts.
<http://www.youtube-nocookie.com/embed/xHkq1edcbk4?rel=0>

◆ Having repaired a MULTITUDE of LED monitors, I can ASSURE you that it's not the scan-rate. It's the HORRIBLE quality capacitors that are installed; many "right at" the voltage they must operate at, sometimes the voltage is higher. My response to replacing 10v caps was to use 25v versions (most times, they'll fit), and none that I've fixed have come back... none.

Panasonic produces a line of PC mount caps (MOUSER lists them), but many mfrs. use Rubycon or Nichicon, which leave a bit to be desired.

Tom Daley - W0EAJ

<daileyservices@qwest.net>

I repaired a Samsung SyncMaster 931b 19" LCD monitor last month. Domed caps on the PSU board were the common culprit.

<http://en.wikipedia.org/wiki/Capacitor_plague>

I bought a kit of capacitors from LCDAlternatives.com for around \$10. <<http://lcdalternatives.com>>

These, and better caps, are also available for about half the price from Electronic Supply in Kansas City.

<<http://www.eskc.com/Default.asp>>

Ask for Brian Cook, Orlan's son.

John Morse, N0EI

<qst@arrlnet.org>

◆ In case some of you have not heard, and are using hotmail or live mail, Microsoft will be converting you over to their Outlook Email automatically. I choose to make the change while I have control.

Yes, Microsoft will be switching all hotmail users to outlook.com but *your email address will stay the same.*

<http://thenextweb.com/microsoft/2012/12/07/hotmailoutlook/>

◆ Just finished fully-recapping this ORIGINAL (no letter designator) 6-tube Hallicrafters S-38. These were made with a REAL B.F.O. circuit and control, which was later dropped in favor of the IF grid/plate feedback method of "readable" CW, which never worked very good. Amazingly, the calibration is pretty doggone accurate, lo' these 66 years later, and the sensitivity was surprisingly good. Selectivity of course, was another matter. Still... as a classmate of mine, back in HS, put it... *"The S-38 represented the HEIGHT of "affordable" technology for a boy of 13, back then"*

To replace the multi-section electrolytic cap with 4 discrete electrolytics, I used a 4-point (center n/c) terminal strip for all the positive terminals, then commoned the negative leads, to a single lead, which ran to an existing lug on chassis-ground. The wires from the multi-section elec., were cut from the big can (after being traced to verify their colors - the dye fades after many years!), then stripped, tinned, and soldered to the correct terminals on the strip. The new terminal strip was then mounted to the chassis with a screw, nut, and lockwasher (only the screw head shows on top of the chassis)... all coupling & bypass caps were replaced with Vishay/Sprague "Orange Drop" types. One terminal, carrying 1 side of the line cord, had broken off of the 35Z5 rectifier - Terminal 6. This terminal is NOT connected to anything inside the tube, nor is Terminal 1, so I was able to move the wires over to the unused Terminal 1. This retains the original appearance under the chassis, does not affect the circuit, and provides a solderable tie-point. Ha! You're looking in your tube manual to see if I'm right, aren't ya?

\$12 at a hamfest, brought this one home, but now that it has 13 brand new caps inside, a fresh alignment, and a clean case, it will bring a tad more. I listened to 40m & 80m W1AW CW broadcasts

on it tonight, and while it's no HRO-60, it's pretty neat, and would have nicely shut me up, when I was a kid... for hours at a time.

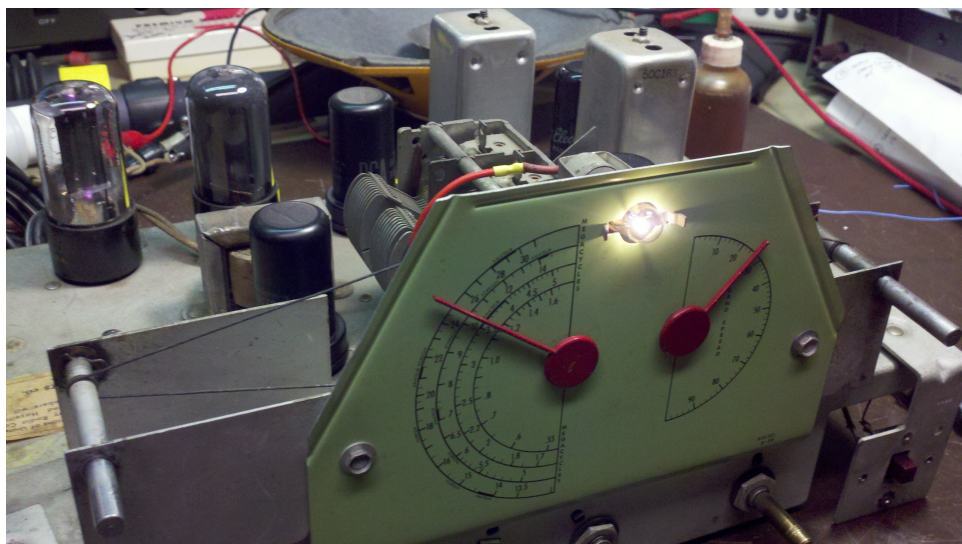
Tom

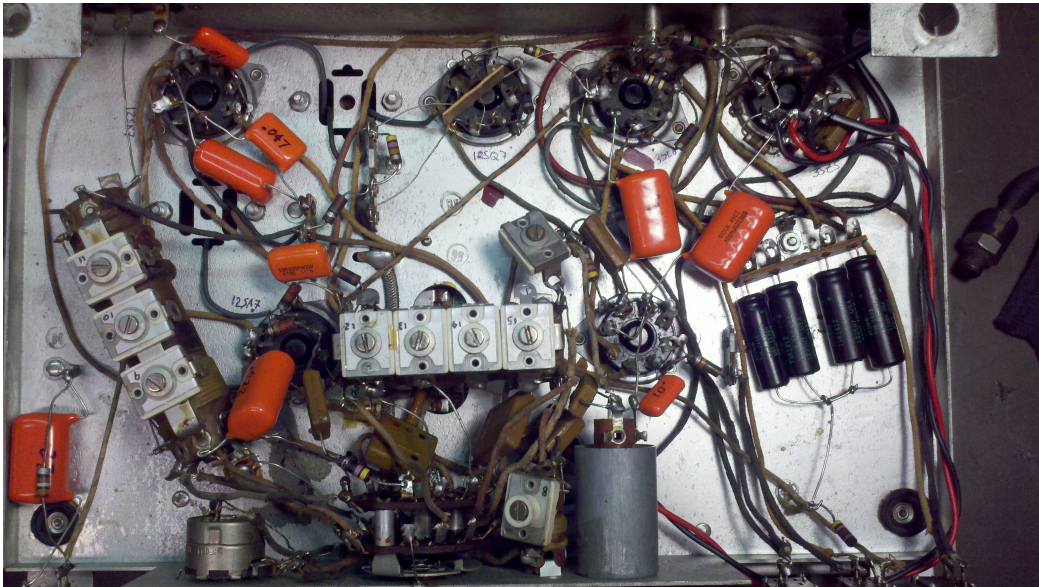


Click on the paperclip for normal sized images - haven't got the case cleaned yet, so that's why it's not on yet - was listening to the bunch on 3875 AM, this afternoon, and by golly, it worked really well. Just a bit ago, was listening to W1AW on 3.5815 CW practice, using about a 3' piece of wire - pretty astounding., especially when I increased the BFO coupling for MORE injection that did the trick.

Yes, it's an ORIGINAL early-version (6 tubes, vs. the 5-tube versions later on in the "straight '38" production)

NOTE: The 35Z5 rectifier LOOKS like an OB2 (Purple filament), but it's some kind of wierd color-shift in the camera, as it's still orange.





◆ Amen!

Advice to All Who Sing the National Anthem

So with all the kindness I can muster, I give this one piece of advice to the next pop star who is asked to sing the national anthem at a sporting event: Save the vocal gymnastics and the physical gyrations for your concerts. Just sing this song the way you were taught to sing it in kindergarten straight up, no styling. Sing it with the constant awareness that there are soldiers, sailors, airmen and marines watching you from bases and outposts all over the world. Don't make them cringe with your self-centered ego gratification. Sing it as if you are standing before a row of 86-year-old

WWII vets wearing their Purple Hearts, Silver Stars and flag pins on their cardigans and you want them to be proud of you for honoring them and the country they love not because you want them to think you are a superstar musician. They could see that from your costume, makeup and your entourage.

Sing The Star Spangled Banner with the courtesy and humility that tells the audience that it is about America, not you.

For reference, here is the way it should be done:

<http://www.youtube.com/watch?v=9ETrr-XHBjE>

◆ In very early 1962, our aircraft landed at Wake Island for fuel & supplies (on our way to Japan)... I've STOOD UPON the old Pan Am Clipper docks (or what was left).. and the PA Terminal building, pockmarked with cannon and machine gun holes, was still there, and it was there that we got a cup of coffee, before walking over to the wooden chow-hall (left from WW-II), where we had lunch. I remember that we got salads made with CABBAGE, 'cause lettuce went bad there, almost immediately.

Wandering about the main island, strewn with old Marston Mats (landing mats) and abandoned radial engines with bent propellers, I looked into the shallow reef and saw an aerial torpedo, waiting to be destroyed or disarmed. I touched "Prisoner Rock", covered with the names of American CIVILIAN and military guys, who were MURDERED by the stinking Japs, because the Jap commander didn't want to feed them. 've stood in USMC Colonel Deveroux's bunker, and stood behind the 8" howitzer that the defenders of Wake, sunk a Jap destroyer with. Yes, for a brief moment, I personally beheld history that I'd only read about... and I "touched" the Clippers.

◆ The other day, wanting to "reface" an old HRO "H" coilset to match my HRO-60 (yep, they'll work), I was trying to figure out how to strip the paint off without damaging the copper-plating underneath (older ones were plated). I remembered a trick my professional-painter buddy taught me for cleaning door-hardware from multiple coats of paint. PINE SOL - full strength. Poured enough in an old ice-cube tray, left the plate and data-frames in the stuff (outside - I hate the smell of it); a couple of days later, using a stick, the old baked-on black wrinkle slid off with hardly ANY effort. I figured I'd share this, because it doesn't scratch or harm the metal.

Tom - WØEAJ

◆ National HRO-60 "A" & "D" coilsets; HRO-50 "F" coilset (works fine with HRO-60). All in very nice shape, and fully operational - checked out in MY HRO-60. \$70.00 each or best offer. Can ship or deliver to Shrinefest.

Tom Dailey - WØEAJ

303 / 455-0889

<daileyservices@qwest.net>

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KAR

w0oyh@arrl.net

The **K**ansas **A**mateur **R**adio

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KAR
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