

# Printed Circuit

– March/April 2012 Blockbuster Issue–

Published by the Southwest Iowa Amateur Radio Club Inc.

SWIARC meets the 4<sup>th</sup> Thursday of every month at the Loess Hills Red Cross Chapter

Charles E. Lakin Human Services Campus

705 N. 16th Street Council Bluffs, IA 51501

<http://www.swiarc.org>



## Three Handed

John KB0QKH frequents the Panera coffee shop near Wal-Mart in Council Bluffs and was there a couple of mornings ago using their **Free Wi-Fi** to check the position of satellites. Then, heading outside to the parking lot, he used a dual band three element hand held beam antenna on his **Yaesu VX-7 H/T**, setting it for 145.85 up and 436.795 downlink on the main and sub-band VFOs, and started calling 'CQ' as the SO-50 satellite came over the horizon.

You're aware of course, that with low orbit satellites the doppler effect frequency shift has to be compensated for, 5 or 10kc as it's coming toward you and as much when receding. So it's understandable that after making a contact with AA4- something, aiming the beam, adjusting freq, and remembering to Push To Talk when transmitting, John forgot the rest of the guy's callsign. We're hoping he QSLs.

Extra Credit Q. High orbit (think GPS or synchronous) satellites are **more / less** affected by doppler. Choose one. Then explain why.

Late Note: A couple of weeks later (after the March newsletter was melded with April for this blockbuster issue) QKH used his mobile radio, 50 Watts, and omni antenna to contact K5OE in Texas on the way home from work. Actually, it's usual to put a range of freqs in 5 memories, and switch them in sequence to handle the doppler. Uh, you need to put in a 67 PL for this one also.

## The Action 2012

- Apr 26 SWIARC mtg @ Red Cross  
Thur North 16<sup>th</sup> St. @ 'G' St.
- Apr 28 BELLEVUE NE Flea Market \$3  
Sat Masonic Hall on Franklin  
10-2 \$10 table incl 1 admitt.
- May 12 CELEBRATE C/B Parade
- May 24 SWIARC mtg @ Red X  
Thur Due to calendar vagary  
7:30 this is FIELD DAY prep mtg
- Jun 7-10 SUPER LAUNCH - NSTAR org  
Sat-Sun Multi-Balloon Launch  
from Omaha Area to 100k  
Radios, cameras, etc.
- Jun 23/24 FIELD DAY nationwide  
24 hr 1PM Sat - 1PM Sunday  
KE4YQD is 2012 Chairman
- Jun 28 SWIARC mtg 7:30PM @ Red X  
Thurs Field Day summary mtg
- Sep 08 OMAHA (Ak) club Hamfest  
Sat Springfield NE @ Fairgnds  
8-1PM \$4admit, tables \$8adv  
Pat KOCTU 402) 492.9156
- SWIARC Memberships expired Dec 31  
Send ck to Box 661 Co/Blfs 51503  
\$15 dues / We accept rprr donats.

## Meeting Minutes 02/23

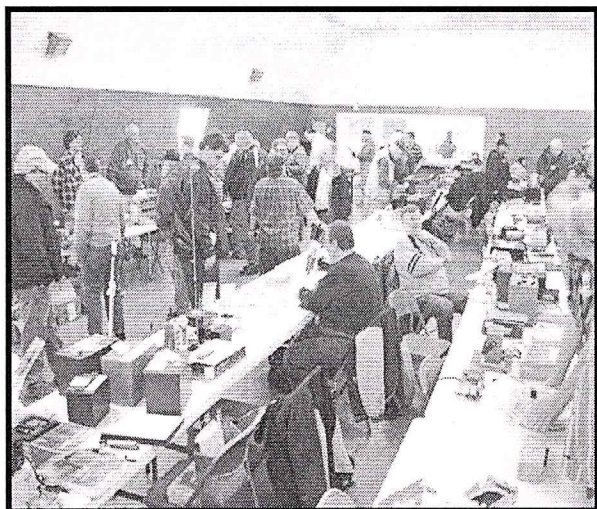
Beginning with the Pledge to the Flag, club Pres. Rick KE4YQD had to take Minutes himself because the Secretary was out of town. Also, we received these members dues (and in some cases repeater donations):

Rick	KE4YQD	
Dave	N0JSB	Dennis WA0VJL
Bob	KCOMUX	&father-in-law
Chris	KCOVEP	Larry WB0VUI

The **Treasurer** reported we have \$ 4,606.74 in the account, and handed Greg N0GR, Hamfest Chairman, \$150 for hall rental and \$800 for change (to be returned after the event).

There was no Correspondence reported. **Flea Market** announced rules & conditions, \$4 to get in, and opening times. Les of **D&L Antenna** will definitely show up, his display an anchor of our show. Although Doyle the **Battery** guy will not be there, Greg N0GR has arranged to pull his trailer full of lightly used, heavy duty, Glass Mat UPS batteries for the sale. We get a percentage. Larry the computer guy from last year hasn't contacted us. 20 of 26 tables available have been spoken for. We may have a sellout. Great!

The club accounted for the expenditures for the event and verified that it is still under the \$1000 authorized limit for this project. (Result below:)



McClelland 2012  
One (1) empty table

**Membership** is up by the six (6) noted above. (Membership Chmn was out of town.)

**Repeater:** Removed loaded receiver off line, lost the link Tx. Back on now. Gave us a test of the main receiver, which shows that it isn't too good. Low sensitivity. Invoices totaling \$168 were presented for two (2) lightning arresters and a crystal for a new link radio.

After a description of all the work done to the repeater, we approved a motion to give the Trustee a 100% raise. Art UWR amended it to a 200% pay raise. Passed. (No money involved.)

**Newsletter:** We're always open to articles and you do not have to be a member. You don't even have to write it on a computer although that's the norm.

**Field Day:** Chairman (YQD) has done nothing yet. Rick blames (friend) Justin KC0WPR for taking vacation and not being available to do site surveys.

Old Business: None.

**New Business:** We may need a new bank. There was a \$5 discrepancy in a cash transaction. We'll wait to see if we change banks in the near future. [Late Note: Bank called and said it was their \$5 mistake. OK now.]

**Announcements:** Joe K0NEB from Lincoln advertised the Nebraska State ARRL convention. Talk-in will be on their .76 repeater.

Adjournment 8:08, Minutes by KE4YQD

## Program

The program was presented by Norm WA0JYD, "The Last BIG FIELD DAY". It was about W3AO ("Atlantic Ocean" - the guys who win every year) and who ran Class 53A in 2004.



## Minutes 03/22

We're meeting at the Red Cross again, but this time the parking lot was full and some of us had to walk quite a way to the front door. Outdoors prior to the meeting, Rich ZQG brought a pair of Panasonic 5.8 Gc cordless phones and Greg KG0S took one a few hundred feet up the lot testing it for range. 300' plus. Inside, after the pledge to the Flag, we introduced ourselves:

Rick	KE4YQD	Shaun	NB0R
Jim	W0ATU	Greg	KG0S
Greg	N0GR	Ron	N0UCM
Paul	W0GXD	Art	KB0UWR
Mike	KD0HZF	Chris	KC0VEP
Norm	W0JYD	Bill	KE0XQ
Robert	KC0MUX	Rich	W0ZQG
George	KD0NME	(16)	
& JoDee	KD0RNC		

George KD0NME bought an MFJ-1712S whip antenna for his H/T. Works. No longer noisy from his QTH into the .82 repeater. Extended it is 19 inches long. We adopted the Minutes as printed although we were looking at a single page out of the still to be printed newsletter. Our Treasurer reported \$4,372 in the bank.

**Correspondence:** Secretary received E-Mail notification that Paul GXD has had his license for 40 years and been a member 3 weeks less than that. Also, another E/M says Terry N0KFM is handling an Estate with Kenwoods 830 & 440.

Marsh Group Insurance sent us a renewal policy. They used to be the ARRL agent. It's another company now. Treasurer will look into it and be sure to have insurance in force by Field Day.

**Repeater:** It's working and the 220 link is quiet. No more hum. Rick YQD's Echo-Link to our .82 is now working under the K0SWI callsign. Greg KG0S has tested various portions of the repeater. The main receiver for one, doesn't appear to have expected sensitivity. Over rather than under one microvolt. We used to have a bandpass filter on the main .22 receiver. Rich ZQG offered one new in the box for \$250. We'll get back to him on that, but it doesn't appear needed now, main or remote. (Do you hear any Intermod?)

Our Editor (and printer) has been busy lately. No newsletter yet. Authorized \$100 to have it done at Office Max. Several members said Yes, send mine electronically. In pdf format. Assistant to Editor said OK, but there'll be a content test later.

**Flea Market:** Greg N0GR in conjunction with our Treasurer said we made \$563 profit. That's more than average. Great. It was a really good show. All the tables were full and one guy was in the aisle with a table full of Collins & Kenwood.

**Unfinished Business:** Rich ZQG presented a receipt for our 661 P. O. Box, \$52 for a year. We paid him. Tom K0AMD made CD copies of a code tape. Given out to members who make a repeater donation. More discussion of possible Field Day sites. Hitchcock Nature Center; the hill West of Glenwood, and Lake Manawa.

**New Business:** Pres. Rick YQD wants to add stuff to the Constitution. Mostly Committees. He read all the proposed items. It'll be sent via E/M to members.

Paul GXD read a long list of thanks to members he's known the past 40 years. Started with SKs including Les Young K0LHW who paid Paul's first month membership. Nicely done. Paul joined at his sixteenth birthday.

Norm JYD had some announcements as usual, one of them the last Tuesday of odd numbered months VE test at the Red Cross in Omaha. Rich ZQG showed a QSL card from KA0XTT. No such callsign. It's (XTT) 'Ex Tim Taylor' from the new Tim Allen TV show Tuesdays on ABC. They have an actual station with an ICOM 9100.

We adjourned at 8:39PM, Minutes by Sec'y

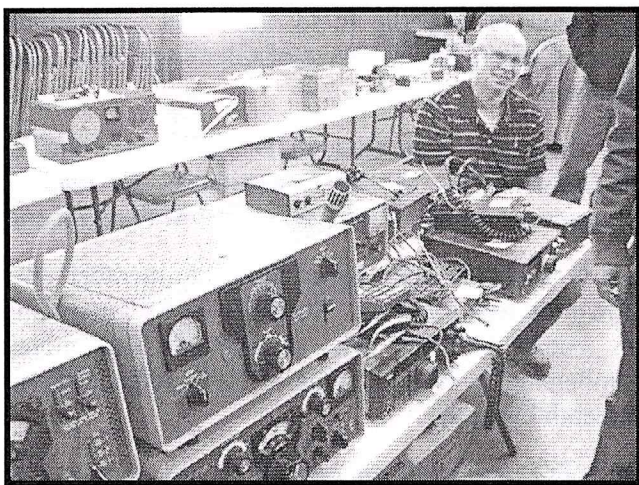
## Program Review

Ron N0UCM brought in a couple of videos from Ten-Tec in Sevierville TN. First was all their manufacturing capabilities including cabinets. They make radios for the military. Then we saw a video demo of the Omni-7 HF transceiver.



## McClelland Report

According to the sign-in sheet we had a hundred and twelve people pay the \$4 admission, and this year we sold all 26 tables in advance, and then a guy called who wanted to dispose of **Collins** brand radios from a relative's estate. Event Chairman Greg N0GR told him, OK, but you have to bring your own table. And he sold it alllll-l. Asking \$1200 for the four Collins items, several guys commented, Boy, if I'd had the money I could have sold just 2 of them for double the price. The stuff had been stored for some time however. And the last place of rest had been the 'garbage' pile. To be tossed. (Some non Ham relatives unaware of the value.)



**COLLINS & KENWOOD eq.**

They included a **KWM-2** transceiver and **30L-1** power amp and 2 more pieces. Kenwoods included a 7950 2M rig marked \$70 bought by Ed KD0CVG for \$25 that looked like it had been in a pickup – real ratty. Ed had another 7950 that didn't work and swapped the good internals into his intact case. Other Kenwoods were a 130, 430, and 450 HF rigs. Most sold.

Art KB0UWR bought a Kenwood 231 2M that came with a cigarette lighter plug on it. Matched perfectly with the MFJ 25A switching P/S he won. We put 10 repeaters and 10 simplex freqs in the memories including the 147.06R+ rpttr in Bellevue with the 131 PL tone. (The MFJ was the first door prize given out at 9:30.)

Scott W9AFB (at the base in Bellevue) picked up some connectors and also some of the hundreds of feet of FREE coax Rick KE4YQD gave away.

We advertised Doyle the battery guy and went to some trouble to haul his trailer out to the site, but only four (4) people took advantage. The used 88Ah type was forty (\$40) bucks. Much heavier than a car battery and made for UPS service, you can get \$18 from a recycler at 27c a pound

Les WB0KFK (Kansas Farm Kid) of D&L said he did a little more business this year. The economy may be looking up. We bought some of the prizes from him and he gave us a few more. The major prizes went to:

Art KB0UWR            MFJ 25A switcher  
Russ K0LUW           Tram 1480 omni ant.  
Lizz / Des Moines / Chinese H/T

There was everything from an RCI 2980 CB rig in a 19in rack mount package marked \$300 (OK, it runs 11 AND 10M) to an Elecraft K2 HF rig and lots in between. How about a Kenwood 570D HF transceiver with very little use and internal tuner for \$750? I liked Joel N0QEI's Pioneer 4 channel stereo. A monster radio. \$75

And then there was our last prize winner who took home the Chinese dual band H/T:



**Prize Winner**



## SWI Paid 2012

These people are assured of getting the newsletter for 2012. If you want on the list, it's \$15.

W0AAI	KD0JOC	KG0S
W9AFB	W0JRR	N0SNW
K0AMD	N0JSB	WA6SWJ
W0ATU	KC0JUJ	KG0SY
KA0BZE	WA0JYD	KB0THC
N0DZV	KC0KAV	N0UCM
WA0FTH	K5LBS	KB0UWR
WB0GBI	WB8LCU	KC0VEP
N0GOZ	K0LGG	WA0VJL
K0GQK	K0LUW	WB0VUI
N0GR	WB0M	KE0XQ
WB0GXD	KD0MMG	KM0Y
K0HHS	KC0MUX	KE4YQD
KD0HVY	K0MXL	WA0ZQG
KD0HVZ	KD0NME	WB0ZWE
KG0HY	AB0NN	KB0ZZT
XYLHZF	W0PY	(56)
K0IC	N0QEI	
KD0JAR	KB0QKH	
KC0JHY	KD0QVB	

## Field Day Projects

SWIARC didn't do Field Day last year, but this time we have an enthusiastic Chairman who is encouraging your input. Specifically, we'd like to have some displays in case the Public shows up. You're welcome to come up with your own, but if you want a little guidance, here are some ideas that have been suggested:

- Harness rays of the Sun to power a Windmill
- Perpetual Motion Generator
- Personal Methane Reclamation

We want to get started on this right away so the display is functioning by the end of June date for Field Day. Communicate your choice to the Chairman by the first of next month.

## Connections Available

WI-FI HOME  
This LAN is MY LAN  
WI-FI GUEST  
This LAN is YOUR LAN

## Swap Net & Want Ads

FOR SALE: QRP antenna, 25W maximum  
MIRACLE DUCKER TL, 6ft.  
Incl. tuner. \$150 new, only \$40  
Call Chuck KD0BWI, 402) 708.5372

FOR SALE: Two ALINCO H/Ts  
One has 2000 mA batt. Other H/T  
needs a batt. Both same model.  
2M single band. MARS mod. \$100  
Call Tom NW7US, NW7US @ ARRL.net

FOR SALE: YAESU FT-60 H/T dual b.  
includes the loo-o-ong ant. \$135  
Call Ryan KB0TKZ, info on QRZ

FOR SALE: GALAXY GT-550 the last  
rig by Galaxy made in Co/Blfs  
Like new. Low hours. 5 bands  
External P/S. Orig man'l. \$400  
Call Pete KC0UFM, 402) 601.0654

FOR SALE: ICOM 970H rack mount  
Dual band, all mode base rig  
Rx range 50 - 950 Mc  
Has optional tone board  
Was \$3600 new in 1990s, \$1800  
RADIO SHACK DX-160 receiver  
covers 150 kc - 30 Mc \$20  
Two ZENITH Transoceanic rxs.  
1 is 1940s tube model  
Other is solid state & works  
on 'D' cell batt. No AC. \$75 ea.  
Call John KB0QKH, 712) 325.0446  
or KB0QKH @ Yahoo

**BELLEVUE A.R.C. FLEA  
MARKET**

**Saturday, 28 April  
10AM - 2PM**

**\$3 admitt.**

**\*\* D&L ANTENNA \*\*  
Franklin St @ 20<sup>th</sup>**

## Popular 2M Repeaters

145.115 T Bellevue NE PL179  
145.13 T Mo Valley IA PL136  
145.175 D NW Omaha, D-Star  
145.235 Papillion NE  
145.29 L Glenwood IA  
145.31 Ashland NE  
145.35 T Clarinda IA PL146  
145.37 Yutan NE  
145.39 Thurman IA  
145.45 SW Omaha

146.655 T Red Oak IA PL146  
146.67 Fremont NE  
146.70 NE  
146.76 Lincoln  
146.82 Council Bluffs IA  
Des Moines, Hastings NE  
KC, Hutch KS

146.865 T Stuart IA PL146  
146.94 Omaha NE  
Des Moines, KC, G.I. NE  
147.00- NW Omaha NE (- offset)

147.00+ Dntn Omaha NE  
147.06 T Bellevue NE PL131  
147.12 Audubon IA  
147.15 Atlantic IA  
147.21 T Manila IA PL151  
147.225 T Avoca IA PL151  
147.345 Anita IA  
147.36 Omaha NE  
147.39 Bellevue NE

All 145 & 146 repeaters are minus  
offset. (147.00 has 2 inputs.)

All 147 repeaters are plus offset.

Addit'ns or Delet's WA0ZQG @ Yahoo

Thanks to W9AFB, SWGrams @ GMail

## First Big Storm 04/14

In Nebraska, when we say T. O. it doesn't mean Terrell Owens, instead Tom Osborne, former Head Coach, Nebraska Congressman (R-NE) and current A/D for the college in Lincoln. It was his voice on the stadium public address telling the 50 to 60,000 fans who showed up for the spring game that they were canceling it for safety. Possible tornado(e) and lightning storm.

Pat K0CTU ran a public service (MS-walk) net that Saturday morning on .82, and Rich ZQG the Saturday Noon Swap Net, both completed with little other than comments about the weather.

Later in the day, Mary N0TRK ran a storm net on the .94 repeater, and Dale WB0OTE plus Mike W0MDL, both using the KC0OAU callsign, ran a weather net on 145.235. Paul WB0GXD used the K0POT (Pott. Co.) callsign on .82. -de Scanner

## 10AM Band Opening

It was a dark and stormy night, and then around 10AM Sunday we heard a lot of odd callsigns on .82, or if you had a tall antenna outside, other repeaters on the frequency with '5' area callsigns.

SWIARC members Bill KD0FJR and Scott W9AFB from Bellevue NE were on their radios. One of the out-of-towners was WC0X from Medicine Lodge KS (SW of Wichita over 300 mi from here), and even more surprising, he was on an .88 repeater. We don't know where the signals crossed.

The band was really up, several .82 repeaters audible at once on the frequency. Scott AFB went to the APRS propagation site.

**APRS.MountainLake.K12.mn.us**

The APRS site usually shows orange ovals but this morning it was all red and looked like the Michelin Man standing inside four truck tires. (Multiple wide ovals up and down the center of the country.)

We left .82 for .52 but between local comments and rapidly changing conditions I didn't hear any distant contacts. The band was up and down for the remainder of the morning. Anyone try .58 ?

de 2M on the first of April