



July 2004

NW DX Convention! No Club Meeting in July!

The Cut-Off date for Dinner and Breakfast reservations is **12 July 2004.**

CONVENTION LOCATION

Quality Inn - North Seattle / Everett
(Exit #186 off Interstate 5 at 128th Street S.E.,
conveniently adjacent to the freeway) just north of
Seattle.

Although the name has changed, this is the same hotel whose hospitality we enjoyed in 2001. [Click here for directions.](#) Click the "**Attractions**" link on the hotel's home page to find many local and regional attractions. July has the very best weather of the year in Seattle and is packed with travel and tourist opportunities.

If you need help getting to the hotel, we will be using the Mt. Pilchuck repeater on **146.92** (-600 kHz offset and 123.0 Hz tone access), thanks to the

Snohomish County RACES team.

CONVENTION PROGRAM

Friday - July 16th

NEW!! Everett Aquasox Game - Minor League Baseball at its very best!

The baseball game will be followed by the usual Hospitality Suite hosted by the WWDXC beginning at 8PM. You won't miss out by going to the game! (Note - there is no formal convention activity, such as a dinner or program, on Friday with the exception of the Aquasox game.)

QSLs to the JARL Bureau will be accepted

Northwest DX Convention
July 16-18
Quality Inn
I-5 Exit 186

by Rod W7OM during the convention at \$3/lb. Look for Rod all day Saturday or at the hospitality suites on Friday and Saturday nights.

Saturday - July 17th

Non-Ham Program - Nancy W7FIR will be arranging a visit to nearby Snohomish, one of Western Washington's most interesting and historic towns. Snohomish is home to many antique shops, history museums and displays, and boasts a large number of beautifully restored Victorian homes. The excursion will begin in mid-morning and return to the hotel by 5 PM. If you are interested in visiting Snohomish, please send email to Denny W7SNH. More details will be posted here closer to the convention date.

DX Programs from 9AM through 4PM
(order may change - check your program)

Carl K9LA - "DXing on 160-meters
Around the Solar Maximum" (not
the minimum, the maximum)

Rod WAØQII - "ZC4RR"

Tom K7ZZ - "Propagation of
Vertical Antennas over Salt Water
(Finding the perfect antenna for a
DX trip to the Pacific)"

Bill NC1L, DXCC Manager -
"Logbook of the World"

Al K7AR, Bill N7OU, and Jim KI7Y
- "Northwest Boys Make Good from
the Caribbean" (various adventures
and frivolity)

Ward NØAX - "Stubs - the Ways
and Means"

DXCC Card Checking - 9AM to Noon
(NC1L, K7AR, and KA7T - thanks!!)

Banquet - Alan K6SRZ - "T33C - A Doc's-
eye View of Banaba"

The Elecraft K2 (Registration Prize)
and SteppIR 3-element Beam (Grand
Prize *cum laude*) will be awarded

following the T33C program - you
need not be present to win. (But
you'll miss out on the fun if you're
not there!)

Followed by the Hospitality Suite hosted by
the WWDXC

Sunday - July 18th

Buffet Breakfast - Jim K9JF - "A Tour of
ARRL Headquarters"

Grand Prize *summa cum laude*- The
IC756ProII Transceiver will be
awarded after the breakfast program
along with numerous other raffle
prizes. You need not be present to
win.

CONVENTION PRIZES

Please join us in thanking the generous
vendors and manufacturers that made it
possible for us to offer such a wonderful list
of prizes this year! Without their support,
the convention would be much less
enjoyable.

Prize List

Raffle Prizes - Each convention registration
receives one raffle ticket (an extra ticket is
awarded if registration is received before
June 15th) and more may be purchased from
the convention raffle representatives. Prizes
will be awarded throughout the day on
Saturday. Look for the drawing schedule
and prize winners posted at the convention.
Raffle winners from Saturday drawings may
claim their prize any time before the Sunday
morning breakfast. You must be present to
win a raffle prize, with the exception of the
Grand Prizes. Prizes that are unclaimed prior
to the Sunday morning breakfast will be re-
awarded.

GRAND PRIZES

summa cum laude
ICOM IC756ProII Transceiver

cum laude
SteppIR 3-element Triband Yagi.

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These are two separate prizes that will be awarded from the raffle ticket pool. You can (and are encouraged!) to buy extra raffle tickets for these prizes. You need not be present to win.

ICOM IC756ProII Transceiver - awarded at the breakfast Sunday morning

SteppIR 3-element Triband Yagi - awarded at the banquet Saturday night

REGISTRATION PRIZE

Elecraft K2 Transceiver Kit

This prize will be awarded at the Saturday evening banquet and you need not be present to win. Each convention registration receives one ticket for this prize. This is a separate prize from the raffle and no additional tickets can be purchased for this prize.

All prizes may be won by any ticket holder, including members of the convention committee.

The bigger American contests (CQWPX, CQWW ARRL DX) have gone to 100 watts output for their low power class, thus requiring a bit of redesign from the 100 watt input contest final that the original article addressed, (CQ Magazine, November 1956, page 44).

Contest amplifier specifications have not changed much over the years, other than that now a full 100 watts output is needed, regardless of shorted coax, fallen towers, etc, and the final must be capable of being driven by normal station equipment, such as a Johnson "Viking II", Heathkit DX-100, Collins 32V2, etc.

Design Characteristics

Danny, K7SS, along with the Pacific Northwest contest community thinks concern for perfect neutralization is unnecessary, with which I agree. Neutralization should be accomplished using the simplest high voltage components possible. Grid neutralizing (1953 ARRL Handbook, page 143) allows the use of a single ended output coil, easily wound on a plastic wire bobbin or piece of 3-inch diameter PVC pipe.

Selection of tubes for the final is not an issue; the availability of tube sockets is. Many tubes are found in swap meets, garage sales, and the like, where actual tube sockets are much harder to find, and thus making sockets the deciding factor. A 3/8-inch thick plexiglass sheet, a 100-watt soldering iron and a hank of #10 wire does alleviate some of the need for sockets. An example of which is shown below, plexiglass is used instead of a socket for the station's main 40 meter 100 watt contest final. Note: the fan is used to keep the plexiglass from melting.

WWDXC Picnic

The annual WWDXC picnic will be held on Saturday, August 14th, 2003 at W7VV, Roger and Sue Huntley's QTH. Festivities begin around 3:00 pm with the barbecue getting hot around 5:30 pm. The club will furnish beer, wine, soft drinks, hot dogs, and hamburgers with all the trimmings.

Each club member attending is asked to bring a dish as follows:

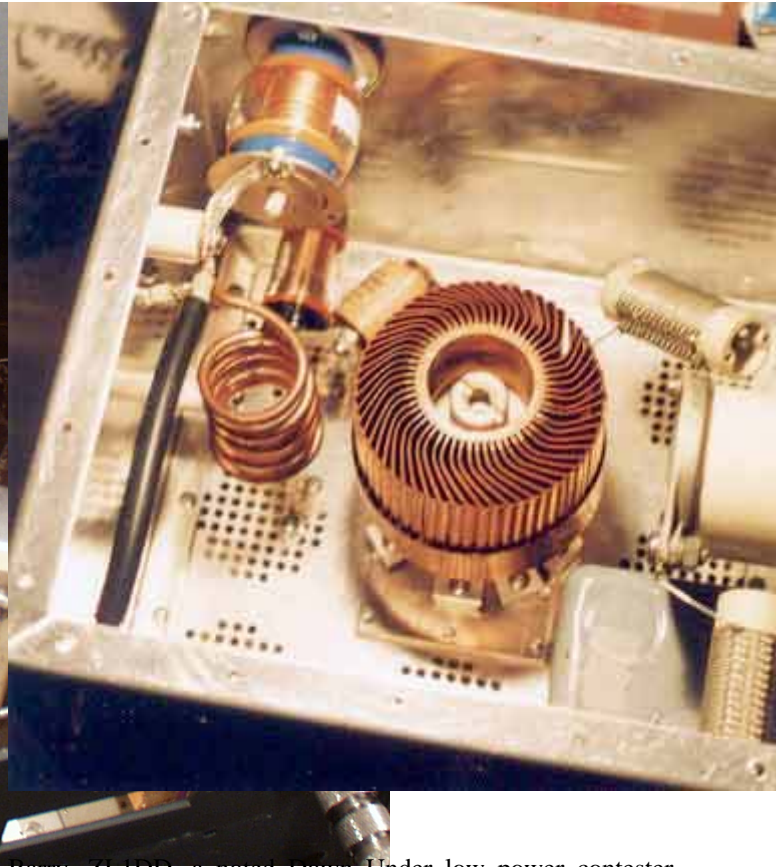
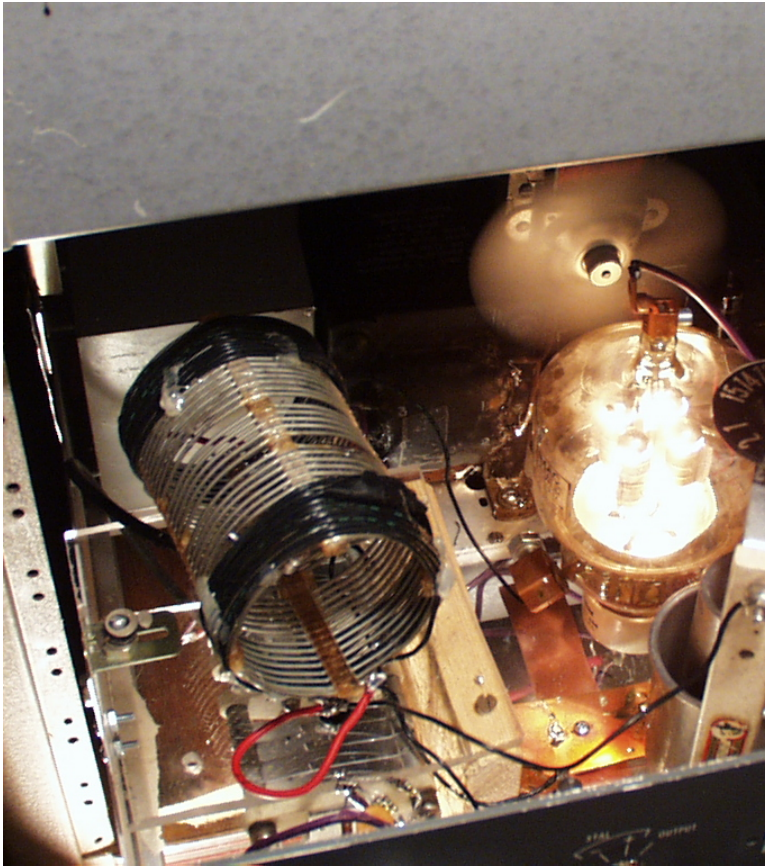
Calls ending (last letter of call) in A-H bring appetizers
Calls ending (last letter of call) in I-P bring side dishes
Calls ending (last letter of call) in Q-Z bring desserts

Example: W7DX would bring a dessert, W7AA would bring an appetizer, etc.

Please RSVP by August 9th to Roger and Sue via email, snr.Huntley@verizon.net; or 425-482-6699. Refer to the map enclosed or the club web site for driving directions. Follow the green roadway signs once you leave SR522 on to Echo Lake Road.

The 100 watt Contest Final – Revisited

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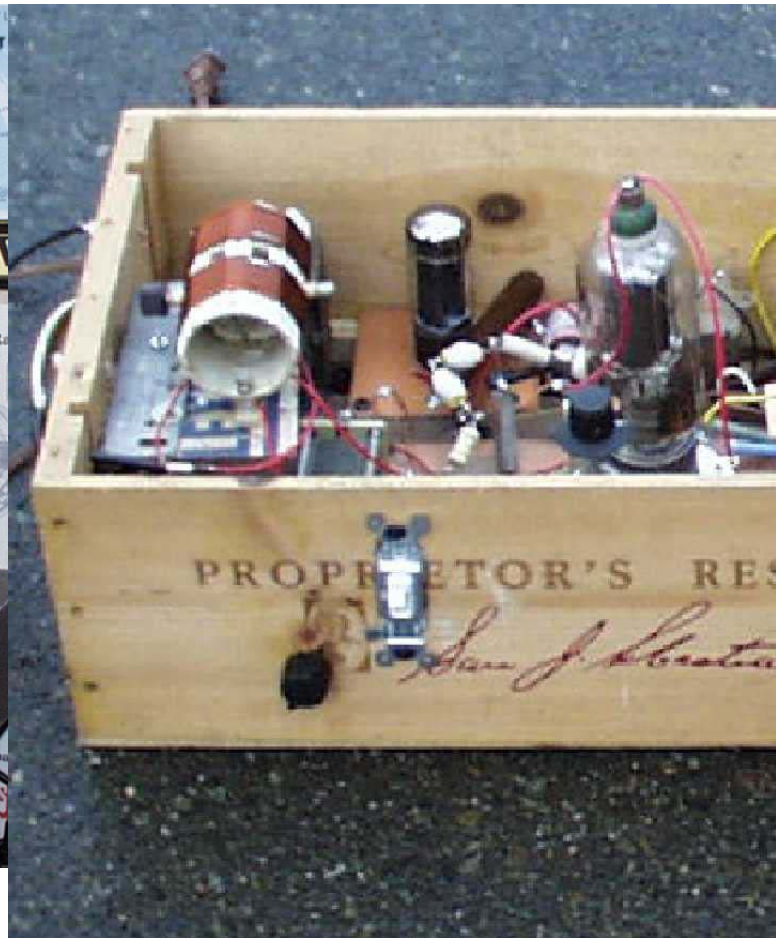
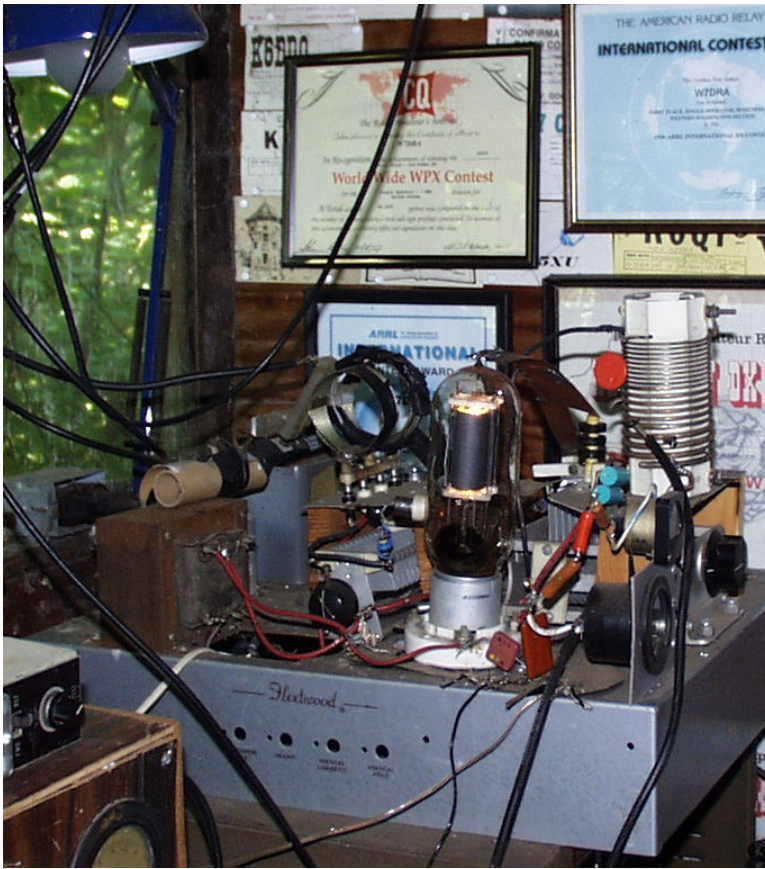
One medium power tube (810, 805, 806, 100th, etc) is better than 15 or so parallel 1625s or smaller tubes, since this minimizes amplifier parts count.

One example of a 100-watt contest amplifier built by Paul, K7CW has been previously described in the literature. This photo shown is with his permission. The liquid nitrogen pump and cooling tubes have been removed from the amplifier to better show the placement of the 100-watt tube and associated tuning apparatus.

Barry, ZL1DD, a noted Down Under low power contester, feels meters are unnecessary, and only take up panel space; a portable output power meter is all that is required to check actual power to the antenna feed line. Even exciter meters are frowned upon, since monitoring the color of the screen grids of the driver is all that is needed to check exciter resonance. A low valued (100 ohms) screen resistor makes screen color a good resonance indicator.

The next photo shows the main station final for 80 meters. Please ignore the meters shown, as they were only used during initial amplifier checkout.

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The 100-watt contest final can take on many shapes, and another one constructed for portable use by the author is shown for your perusal. This one also utilizes an 810, and was used during the 2003 CQWPX contest at W7DRA/7

With the advent of old microwave ovens available at thrift shops, the power transformer problem is solved! Freddy (HB9MS) in the original article suggests using a “bridge rectifier” (1950 ARRL handbook, page 226). This is the perfect circuit for a microwave transformer, as it requires no center tap. I, along with Ken Gordon, W7EKB, of the University of Idaho’s College of Science concur with using 4-866s as Freddy’s use of the 872A tubes in the bridge is a bit over-kill. A 25 amp 120 volt Variac is also needed to set the exact value of the high voltage required for the 100-watt contest final.

There are a few major contests (such as the Minnesota QSO party) that require a 150-watt contest final. If one cannot find a single tube of sufficient ruggedness, two may be used in a circuit that is described in the popular, well-referenced ARRL Hand Book (1941 edition, page 232), which uses a “push push” circuit requiring no neutralization. Now with a mere two 8877s or 4-2500s one can construct a 150 watt contest final that can be driven by the 100 watt contest final to good success.

The author and the editors at CQ magazine hope that this article brings some information and understanding to the non-contest oriented amateur community. On 75 SSB, hams often comment about some of the popular low power contest

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stations in operation: "Good heavens did you HEAR that W7 blasting away on the low end of the band?"

DX Packet Alert Network Frequencies

W7DX North East Bellevue (DX Node) 145.75 K7UU sysop. TELNET to w7dx.net user documents www.ab5k.net
W7PKT Auburn (DX Node) 145.73 KA7CSE sysop. Mike has some hard copy user documents.
N7XY Bainbridge Is. (DX Spider Node) 145.77 N7XY sysop. TELNET to n7xy.net port 7300. or use <http://n7xy.net/cgi-bin/spider.cgi> user document <http://www.dxcluster.org/main/usermanual.html>
K7JY-2 University of Washington NETROM 145.75
N6MZ-4 Bellevue Sommerset NETROM 145.75
N7FSW-6 West Seattle NETROM 145.75
Call or email K7UU if you need help using the netroms.
Kurt, K7UU, k7uu@comcast.net, 425-746-5254.

Dayton Report

By Ward Silver, NØAX

This was my fourth trip to the Dayton Hamvention and I think this one was the most relaxed. Or maybe I was the most relaxed. Whatever. First, I managed to avoid all of the weather travel troubles by having fortuitously chosen to fly non-stop to Cincinnati (CVG) instead of via Texas or Chicago. Was I smart? No, just cheap - I had frequent flyer miles on Delta and they fly to CVG, which is about an hour's drive from Dayton. The guys going via United, Northwest, or American had big thunder-boomer problems. Flights were cancelled or delayed on Thursday and quite a number of attendees didn't get in until Friday or even Saturday. No one was spared. I heard that Joe Walsh had a side trip to Dayton written into his tour contract (he's on tour with the Eagles), but his flight was grounded, too. I guess he played the blues that night! While I was in the air, it was clear that Bad Weather was happening to the north but our flight was only a little bumpy and everything happened just as it was supposed to.

Thursday night is the warm-up night for the hospitality suites and even though I didn't pull in until almost 10 PM, the merry-makers were hard at it on the 12th floor of the Crowne Plaza. The Sultans of Schwing (a.k.a. KA9FOX, WE9V, K9NW, KO9A and K9PG) host a fun-filled suite every year and the regulars always make it their first stop. Some, like Red W6AE, make it their only stop - <http://www.qth.com/sos/dayton02/> (search for "Need More Cans"). Don't fall asleep in the Sultans Suite!!

Friday morning, you get the three hour West Coast advantage and bounce out of bed bright and early in time for breakfast while your East Coast roomie (K1DG) is just starting to think about getting up. Hey, that's a great way to seize the shower early. If I can't push Doug off the twenty-meter band edge during CQ WW, then at least I can use the shower first. The Crowne Plaza's breakfast buffet is legendary and then it's off to the Hara Arena, home of the Hamvention. I

got lucky this year because K1DG is the Contest Forum MC, which means he gets a parking lot pass. Instead of parking in the giant field across the street from Hara, we could just whiz right up to the door and only had to walk about 50 yards - neener, neener, neener! The major thing I wanted to see was the Antenna Forum (www.kkn.net/dayton2004 has some of the presentations), which was late in the afternoon, so I spent the day wandering.

I used to have a nightmare when I was a kid about being lost in a large building and every room was full of people with no way out. Hara is like that. It has the main hockey-rink sized arena, onto which four other halls and three ramp areas have been added. Even a map doesn't help, but it doesn't matter because the whole place is crammed full of hams and vendors displaying every possible ham or ham-related item you have ever imagined. It took me two hours just to make a single walk past all of the booths, taking notes about which looked the most interesting. Then I went back and visited the most interesting ones. I deferred the flea market to Saturday, which turned out to be a poor decision (see below). By the time you get Hara and environs about figured out, it's time to go anyway, so don't try...just wander and have a good time.

What did I get at Dayton? You don't go to the world's largest hamfest and come home with only product brochures to show for it, no sir! Well, my major purchase was a Solder-It Solderpro 120 tool set that include the world's studliest butane torch, attachments, and tubes of pastes of various styles to solder just about any two metals. I have since validated that purchase in two ways. One, I soldered a PL-259 to RG-213 braid in less than a minute and with very little fuss and bother. Two, I was using it with it's wicked little hissing flame and Nancy said, "Isn't that dangerous?" YES!! Total confirmation that I had a proper device! It really works - check out the Solder-It Web site <http://www.solder-it.com/> for the complete details. I also got a crimper and a couple of books, but wasn't about to load myself down to fly back to Seattle lugging too much gear.

Friday night was a repeat of the Thursday night follies, but with more people and it ran later. Ellen W1YL was there handing out the OJ buttons in memory of her son Jim K4OJ who passed away following heart surgery. Everybody, and I mean everybody, had one pinned on. The midnight Super Suite pizza feed was a big hit as always and the Crowne Plaza, nerve center to contesters and DXers at Dayton, was rocking into the wee hours. Every trip up and down in the elevators was an adventure since you never knew who would appear on the other side of the sliding doors. It's great!

Saturday dawned early and...wet! Oh, no! The heavens were definitely raining on our parade and that makes the flea market much less fun for everybody. It wasn't a heavy rain, but steady. This definitely contributed to lower-than-usual attendance. I think only 20,000 people were there! Let me tell you that some people don't look their best under a plastic poncho - kind of like a very hairy kewpie doll - Munchkin cross. OK, let's not go there. I only went outside for a while in the afternoon and many vendors had given up for the day, so not much of a report on the 20 acres of tailgators. The big attraction in the morning was the Contest Forum with the Donald Trump-inspired "Contesting Apprentice" spoof and several interesting programs, including a great slide show by

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K1ZM on his growing VY2ZM superstation on the shore of Prince Edward Island. Gnarly!

Saturday is also the day for the Contest Dinner which was really well attended - nearly 300 in the audience. Ellen W1YL made a very nice short eulogy for her son Jim K4OJ and husband Bob W1CW, both of whom departed this mortal coil in the past year. We remembered W4AN, as well, but then moved on to the present day as N5KO and N8BJQ were inducted into the CQ Contest Hall of Fame. That leads directly to the final installation of the hospitality suites and there are several, hosted by the the Northern Ohio DX Association, Kansas City DX Club (see <http://www.qsl.net/kcdxc/> for the sound files from the CW Pileup Copying Contest), and Florida Contest Group. Since most people leave early Sunday, this is the time to schooze until the dawn's early light. Wow. Is it Saturday night already?

People trickle away on Sunday, although some make another pass through the flea market and the weather was definitely better. Overcast, but dry. I chose to visit a couple of the Wright Brothers historic sites on the Dayton Aviation Trail (<http://aviationtrailinc.org/>). There are dozens of sites associated with early aviation around Dayton, as well as the world-famous Air Force museum at nearby Wright-Patterson AFB (<http://www.wpafb.af.mil/museum/>). Then it was down I-95 to Cincinnati, but with a stop at the original Voice of America site (<http://www.veteransvoa.com/>) where the WC8VOA club (did you work them in the CQ WPX contest this weekend?) is located (sans big SW BC antennas) and open for tours. You remember those gigantic 250 kW Eimac tubes that used to grace the back cover of QST? That's where they were used and there are still a couple around for show. I'll bet I could get my 160-meter DXCC real fast with one of them in the final PA! Maybe I could even chase Doug off the band edge?

Well - this was far too long and told far too little. I hope you got a little gist of what Dayton is like - too big and too busy to see it all, but utterly fascinating in its breadth and scope. Every group you've ever heard of and many that you haven't all have their own version of the complete Dayton experience. They come from all over the world and just around the block. It's wonderful to see it all laid out in front of you. If you've never been, you should put it on the "Must Do" list. Buddy up with a friend and take your Dr. Scholl's foot pads!

Call to Battle!

By Hillar Raamat, N6HR

There Hello you testers, wannabee contertters, armchair testers or just plain DX chasers! This coming weekend is a great opportunity to add to your numbers - whatever your notion! It's time for the the INTERNATIONAL AMATEUR RADIO UNION contest - a.k.a. The IARU! For the WWDXCers, the last of the seasons battles!

Very civilized - only 24 hours. Noon GMT Sat to noon GMT Sunday. Both modes - SSB and CW. All bands...

See all the detailed rules in the QST. Just remember -- we here on the West Coast of USA are in ZONE 6 (SIX).

The fun multipliers are the "HeadQuarters" stations - like our W1AW, the Canadian VE3RAC, the british GB2SM, the german DARC (DA0HQ), and other HQ-suffix stations. Every one a multiplier! NU1AW (The IARU HQ station) will be on from Vermont - so if you still need Vermont - here's your oyster on the open platter! Other multipliers are the countries in the various IARU Zones (different from the CQ zones...) The exchange is simplicity itself -- RS(T)+06 for us here in zone 6.

So go get into it - everyone can work everyone else, US to US is fine, US to VE even better, US to DX the best! C u in the pileups,

QSL Cards email Address Change

By Ward Silver, NØAX

Roger, W7VV, has a new email address for QSL card orders. New email address is huntleyr@coffman.com or snr.huntley@verizon.net. New telephone number during the day is 206-623-0717.

Visiting Ham

Dear XYLs, YLs and OMs,

Please excuse me for addressing you directly.

From August 30 thru September 17 I will stay in Lacey visiting relatives.

During those holidays I would like to do some amateur radio. As it seems the hotel will not allow me to erect some wire dipoles, hi.

My callsigns are DL9NEI and ND2N.

Do you have a club station that can propably be used ?

Beeing interested in CW, RTTY and contesting I am looking for a station to be used during Worked All Europe Contest SSB (or some rag-chewing in the afternoon).

Thank you for any helpful answer.

73s de Norbert DL9NEI d19nei@nefkom.net

<http://www.bavarian-contest-club.de/members/d19nei.htm>

or checkDL9NEI on <http://www.qrz.com/callsign>

Totem Trader

AL-811 Ameritron Amp \$649

Force 12 EF-20 4 EL 20 \$649

Force 12 C31XR 7 El 10m/4 EL 15m/3 EL 20m \$1329

Cushcraft A3WS 3 EL 12m/17m, 1 EL 30m \$549

Jon K7ZA 425-432-9838

Tower and Antenna For Sale:

Rohn 25 tower - 88 feet, \$300.00 with 12 guys and mast included, or \$30.00 per section, \$10.00 each guy.

Mosley S-33 antenna - triband Yagi, 40-20-17 meters. 24 foot boom. Excellent condition, no corrosion. \$300.00.

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CDE Ham IV rotor, control box and cable. \$100.00
DX Engineering 5 position remote coax switch, control box,
85 feet cable. \$50.00
Free! Dismantled old 20 meter Telrex 3 element Yagi.
Contact Max Long, W7LGG, Yakima, 509-966-0713

For Sale, TS820 Transceiver, Microphone, Manual and
external digital frequency readout. Excellent condition. \$350.
Drake C Line...make offer. Chuck, WA7BRL wa7brl@att.net
ph. 425-775-1496 w/recorder.

Want 144/220/440 radios, TNCs, and antennas that potentially
could be used for the DX Packet Cluster backup, replacement,
and/or enhancement. If the donated equipment doesn't have a
future with the alert network, I plan to list items on ebay and
use proceeds to buy the equipment we Need. Thanks, Kurt,
K7UU, k7uu@comcast.net, 425-746-5254.

TOWERS AND ANTENNAS FOR SALE

A. Rohn 25 Tower - 88 feet with all guys, cables, 6' hi-
strength steel mast.
Top guy is Phillstran
Mosley S-33 antenna - Tri-Band Yagi, 40-20-17 meters
24' boom - 100 lbs.
CDE Ham IV rotor
DX Engineering 5 position remote coax switch
\$800 - You dismantle

B. Rohn HBDX 48' Tower with thrust bearing
Lightning bolt antenna - 2 ele 5 band quad
Yaesu G-800S rotor
\$500 - You dismantle

C. Locally built tower, 44 feet
20' heavy duty aluminum mast and all guys
\$150 - You dismantle
* item C is free to purchaser of items A & B

All towers and antennas are standing and in excellent
condition
Also free - older 20 meter telrex 3 ele yagi

Max Long, W7LGG
Yakima, WA
(509)966-0713

FOR SALE: Rohn 45 Tilt Over Tower with a HY-GAIN 2
Element Quad including a HY-GAIN MARK IV Rotor.
Asking \$850 for the lot (Need help to take down &
disassemble) Owner is Bill Shower (KC7CF) who is moving
to Arizona Address = 32401 7th Pl. South Federal Way, WA
98003 LL = (253) 941-9078 E-Mail = kc7cf@comcast.net

For Sale: Collins 51S-1 general coverage receiver with
original manual. Good condition, currently in use. (Might need
an alignment to be up to spec.) Asking \$750 (offers of trades
cheerfully considered) Kim Bottles - K7IM
kbottles@rafn.com 425-702-6628 w 206-780-8204 h

WDXC Board Meeting 04/26/2004

By Brian Moran, N7ADG

Attendees: Harry Lewis W7JWJ Mary E. Lewis W7QGP Jim
Hadlock K7WA Joe Gregory W7QN Bob Nielsen N7XY Pat
Shinners W7GTO Marina Zuetell N7LSL Kirk Bellar N7UK
Denny Bowman W7SNH Dick Swanson K7BTW Brian
Moran N9ADG
Minutes approved from March 2004

Correspondence: Stanwood/Camano ARC Hamfest will be
May 8, 2004. W7PKT is now located in Auburn at KA7CSE
Application for membership from K7VAY received

Treasurer's Report: The certificated of deposit was rolled over
after earning \$184 in interest. The club has approximately
\$6400 in assets. Convention registration and renewals are
coming in.

New Memberships: K7VAY was accepted as new member.

Old Business: President will speak with Mike Schone about a
2004 roster.

New Business: Field Day: To Op, or not to Op. Field day is
6/26 to 6/27, and there has not been much interest shown to
date. Suggestion was to put FD activity option to the
membership at next meeting, but without approximately 12
people, it should likely not be attempted. The President
volunteered to send email to the general membership list to
elicit response. Monthly Meeting Agenda update: MAY:
Antennas with Bob and Jim, QRP demo at Las Margaritas
JUNE: JULY: Convention AUGUST: Picnic SEPT: TBD

Convention Update: Quality Inn is locked. Need 800 phone
number of the hotel posted on the web page for reservations.
146.32/92 is the talk-in frequency for those that want to use it.
Speaker agenda still being put together. ZL1AMO is a
potential, but potentially costly as well. Prizes for the
convention include 3 element Steppir, K2 Elecraft Kit,
Paddlette equipment (www.paddlette.com). A DXCC Card
Checker will be in attendance. Aquasox tix are still available.

Picnic update: Still on for August.

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TOTEM TABLOID

Western Washington DX Club, Inc.
P.O. Box 395
Mercer Island, WA 98040

The Totem Tabloid

The *Totem Tabloid* is published 11 times per year (no August issue) by the Western Washington DX Club, Inc. P.O. Box 395, Mercer Island, WA 98040.

Advertising

The *Totem Tabloid* accepts commercial advertising. For rates and specifications, please direct inquiries to the WWDXC at the address listed above. Totem Trader non-commercial ads are free to WWDXC members.

Articles, News Items and Classified Ads

The *Tabloid* depends on submissions of articles and news items from its readers. Send all items of interest to the *Tabloid* editor:

Jack Fleming, WAØRJY
20148 6th Avenue NE
Seattle, WA 98155
206-361-2732
editor@wwdxc.org

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Joining the Western Washington DX Club

To join the WWDXC or sponsor a new member, please send an SASE for a membership application form to the WWDXC, P.O. Box 395, Mercer Island, WA 98040. Annual dues, including a subscription to the *Totem Tabloid*, are \$25.00.

Internet Access

Information on the Western Washington DX Club is also available on the internet at <http://www.wwdxc.org> or by email to info@wwdxc.org.

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