



May 2005

FT5XO

The Inside Story by Mike N6MZ

Club member Mike Mraz, N6MZ, will put on this month's program of the Western Washington DX Club. Mike was one of the operators on the recent FT5XO operation to Kerguelen Island. As many of you know Kerguelen is located in the southern Indian Ocean, close to Antarctica. This should be an excellent program with pictures of the operation as well as providing an insight into how a multi-multi operation like this is conducted.

May's meeting will be held at Angelo's Restaurant, 601 SW 153rd, Burien, Washington 98166. Tuesday, May 10, 2005 - Dinner at 6:30 PM, Program at 7:30 PM.

Plan on staying after the formal meeting is over and enjoy some eyeball QSO's with various club members.

Member of the Year – 2004 Pat Shinners, W7GTO

Congratulations, Pat, on receiving this award. From his nomination, "Pat took on the position as President that nobody wanted in 2004 to 'Belly Up to the Bar', even sleeping on a couple of chairs in the hospitality room at the Comfort Inn at the last years PNW DX Convention hospitality suite. He also took many pictures of the convention. This is not to mention His QUIET way of getting the LITTLE things done. Pat has always attended all our meetings with his projector that he

purchased out of his pocket (which now the club has since purchased), screen, and audio system. Plus, Pat handles the purchasing of the raffle prizes for monthly meetings not to mention the other stuff he does that we don't know about. The bottom line is that Pat has put out more effort than anyone in the club on transparent little-but-important activities which "He Thinks it's Normal" We can always count on him to be there." Thank you, Pat!

Runner-up is Dick Pooley W7HUY. As his nomination reads, "Dick is a long time WWDXC and ARRL member in the Vancouver and Portland area. He is always Johnny-On-the-Spot with assistance and is the Clark County ARC CW VE. Dick, at age 85, is hanging up his tower climbing gear,

Angelos
601 Southwest 153rd Street
Burien, WA
(206) 244-3555

Tuesday, May 10th
Dinner at 6:30 PM
Program at 7:30 PM

reducing his volunteer time to sit back and relax. Dick is near the top of the DXCC list, needing one or two more. He has a lot of love for Amateur Radio - his transceiver is always on, ready to talk to someone."

Rookie of the Year - 2004 Alan Burgstahler, N7BF

Way to go, Alan! Alan's re-discovery of HF a year and a half ago is going well, indeed...6239 contacts in 2004, 30 contests, 138 DXCC countries. For the enthusiasm with which he has pursued HF, entering almost every contest and doing well, we're proud to recognize Alan N7BF as the WWDXC Rookie of the Year.

Runner-up is **Jim Denenny K7EG** who is another familiar face at club meetings and voice on the air. We're proud to have both of these gentlemen join our club along with every other new member in 2004!

WWDXC Membership Renewals for 2005/2006

Renewal statements are in the mail for 2005/2006. Membership dues in the Western Washington DX Club are \$25.00 per year, which includes a subscription to the Totem Tabloid. Your club dues support the club repeater, liability insurance, club activities such as monthly meetings, Field Day, Washington State Salmon Run, the Club Internet site, plaques for the CQ and ARRL International DX contests, DXpeditions, and a variety of other activities. Please mail your renewal check to the WWDXC, P.O. Box 395, Mercer Island, WA 98040, or bring it to a club meeting.

Totem Trader

For Sale: IC-4KL Icom KW Output HF solid state amplifier. Very little use, excellent condition. Also has built in KW antenna tuner and remote control head. This is the much heavier duty forerunner of the PW-1. 220 VAC only. \$3400 Firm. Kim Bottles - K7IM 206-510-1232 or kbottles@rafn.com

Parts! Parts! Parts! If you have them, I'd like them. I *still* don't have enough air variables or roller inductors to sate my appetite for matching networks in my antenna/amp construction. Please let me know what you have. Brian N9ADG brianmo@yahoo.com 206-390-4376

FOR SALE

FT-1000D - Inrad filters, computer interface unit, Yaesu hand mic --- \$1,800
Heil Pro-Set mic headset with adapter cord for Yaesu radios -- \$75
Industrial Communications Engineers (ICE) Model 321 8KW PEP Lowpass RF filter --- \$20

KT36XA Tribander --- \$550
Tom, K7RI - (206) 935-0457

5 EL HyGain Long John 10M beam (\$125) 4 EL Cushcraft 15-4CD 15M Beam (\$150) 4 EL Telrex 20M436 Beam (May be best 4 el 20M beam out there) (\$230) 2 EL HyGain Discoverer 7-2 40M beam (\$275) - 23ft boom, 25ft turning radius) All antennas are in very good shape. The Telrex beam has a 36 ft boom and weighs about 90 pounds. The Boom OD is about 3.5" and the elements go through the boom. These are all very good antennas and I will make a discount on a multiple antenna purchase. Shipping costs make shipping not practical. I have a Tri-Ex HS471 Tower that blew down in April 2004. This is a very good, heavy duty crank-up guyed tower. It was not fully extended when it blew down into some trees, and has been replaced. It bent the very bottom of the second section, and can be easily repaired with a little welding. Make offer. John Owens - N7SEJ (425)745-0577

First 2004 NAANY Award

The first 2004 NAANY (Nightmare Alex Alpha-Numeric Yearly) was awarded to Yuuichi Hosono, JH1OCC. He worked all 260 callsign number and letter combinations from 1A (OK1ACB) to 0Z (T30ZF) outside of his continent in the calendar year 2004. The NAANY was created by former Tabloid Editor Jack Bock, K7ZR (SK). If your 2004 DX log qualifies for a NAANY or a WWDXC Annual DX Award (100 DXCC entities), send a copy of the log data to Jim, K7WA. Good hunting in 2005!

DX Packet Alert Network Frequencies

By Bob Nielsen, N7XY

W7DX North East Bellevue (AR-Cluster node) 145.75 MHz, K7UU sysop.

Telnet to w7dx.net

User documents at <http://www.ab5k.net>

W7PKT Auburn (DX Spider Node) 145.73 MHz, KA7CSE sysop.

Telnet to w7pkt.net, port 7300

user documents at

<http://www.dxcluster.org/main/usermanual.html>

N7XY Bainbridge Is. (DX Spider Node) 145.77 MHz, N7XY sysop.

Telnet to n7xy.net, port 7300

or <http://n7xy.net/cgi-bin/spider.cgi>

K7JY-2 University of Washington NETROM 145.75

N6MZ-4 Bellevue Sommerset NETROM 145.75

N7FSW-6 West Seattle NETROM 145.75

If you need help, email n7xy@oz.net.

Lee Sawkins, VE7CC has written a versatile Windows user program which works with either AR-Cluster or DX Spider

nodes. It can be downloaded from
<http://www.bcdxc.org/ve7cc/default.htm>

The Shortened Half-Wavelength Sloper

By Jim Hadlock, K7WA

*L*iving in a QTH with limited room for antennas, I'm always thinking of how to optimize DX performance using the least amount of space and hardware. Given a single support, what is the optimum antenna for DX operation on the low bands (160, 80, 40, and 30 meters)?

An important consideration for antenna performance is takeoff angle, the angle to the ground that most of the RF leaves the antenna. Takeoff angle is determined by configuration and height above ground; for antennas this is measured by wavelength, not feet or meters. For example, a 40 meter antenna seventy feet high (one half wavelength) is like a 2 meter antenna three feet high (one half wavelength). As we go up in frequency it's easier to get an antenna up high in terms of wavelength. As a horizontal antenna gets higher above the ground, the takeoff angle gets lower, and it becomes a more efficient DX antenna.

The vertical antenna ideally has a zero takeoff angle. However, a ground mounted quarter wavelength vertical antenna requires an extensive radial system for maximum efficiency. Mounting the quarter wavelength vertical above ground, with elevated radials, is one effective solution but I don't have space to run even three or four radials. Another common antenna, the half wavelength inverted vee, is an excellent antenna for local coverage but not for DX. This is because at typical heights the takeoff angle is very high, most of the RF goes straight up.

Having used a Force12 Sigma vertical on the higher bands I was interested in utilizing a similar design as a wire sloper. This design uses a shortened vertical dipole with horizontal loading elements at the ends of the dipole. The vertical dipole achieves a low takeoff angle along with an efficient match to a 50 ohm coax feedline. My design goal was to use a half-sized sloping dipole with one pair of loading wires at the top and one pair at the bottom. A similar antenna appears in the 2005 ARRL Handbook (The Compact Vertical Dipole (CVD), Sec. 22.31, 22.32).

Using my ancient version of MININEC, I was able to model this design for the 30 meter band. A vertical dipole near the ground has a takeoff angle of 22 degrees. As a 60 degree sloper the takeoff angle is 25 degrees with 2 dB front to back, and as a 45 degree sloper the takeoff angle is 35 degrees with 4 dB front to back. The shortened version has a calculated feedpoint impedance of 49.5 ohms providing an excellent match for 50 ohm coax.

As built, the dipole element is 25 feet long (about 50% of a half wave 30 meter dipole). The angle chosen was 60 degrees (putting the bottom about 12 feet out from the support); with the bottom 6 feet off the ground the top is 28.4 feet high. The top pair of loading wires slope down at 45 degrees, and the bottom pair are horizontal. The feedline is RG-8X coax with a Palomar Engineers ferrite bead balun. The only critical

dimension is the length of the loading wires, MININEC indicated the best match with the top loading wires 7.8 feet long and the bottom ones 7.5 feet (the difference is due to the top loading wires sloping down 45 degrees). I started with the loading wires two feet longer than the calculated length, and used my antenna analyzer as I trimmed them for resonance in the 30 meter band. By the time I got to 10.120 MHz, I had cut 27 inches off each loading wire; the SWR is below 1.5:1 across the band.

This configuration is adaptable for other bands. An 80 meter version would require about 70 feet and a 40 meter version about 35 feet. This antenna provides a low takeoff angle for DX, a simple coax feed, and a little front to back. While no shortened antenna will perform as well as a full sized one, and no low antenna will perform as well as one high up and in the clear, this one does just fine from my location.

2005 Pacific Northwest DX Convention Sponsored by The Willamette Valley DX Club

August 5-7, 2005
Monarch Hotel, Portland OR

Please join us for the 50th Annual Pacific Northwest DX Convention. The Convention includes many technical sessions, a banquet and breakfast, door prizes, raffle prizes, and provides a great opportunity to meet old friends and make new ones. And Wayne Mills, N7NG from the ARRL will be present to check DXCC submissions with no restrictions on dates or bands.

The Convention is held at the Monarch Hotel in Portland. The [Monarch Hotel web page](#) offers maps and complete contact information.

Ask for the "Northwest DX Convention" rate when registering. Stay 2 nights at the convention rate of \$91 single or double per night, and get a 3rd or 4th night for \$49 single or double occupancy, plus tax.

Please check the convention web page to see who is registered for the Convention, and updates on technical speakers and the schedule.

Please print out this [registration form](#), and mail back to the club. On behalf of the Convention Committee, we look forward to visiting with you in August. Please contact Al, K7AR at k7ar@arrl.net with any questions you may have.

DX Convention Committee Members,

Chairman: Al, K7AR

Prizes: Steve, N7VS and Caroline, KC6MZY

Publicity: Don, AC7ZG

Speakers: Jim, KI7Y

Tickets & Badges: Bill, N7OU

Registration: Kevin, K7VI

Program: Bob, W7YAO

Treasurer: Russ, W7LXR

2005 Pacific Northwest DX Convention
August 5-7, 2005, Monarch Hotel, Clackamas, OR

— Registration Form —

Name _____ Callsign _____

Name _____ Callsign _____

Address _____

City State/Prov Zip/Postal Code _____

Email _____ Phone _____

Register before June 15 and receive a FREE raffle ticket for a US\$1,000.00 gift certificate to Ham Radio Outlet. Additional raffle tickets will be sold at the convention.

Please choose: Full Registration – Program, Banquet (indicate banquet choice, below), Breakfast, and Prizes	US\$60 x	= US\$
Or à la carte (put a check mark in front of your choices):		
<input type="checkbox"/> Program registration only (this is required)	US\$25 x	= US\$
<input type="checkbox"/> Banquet entrée: Grilled Salmon	US\$25 x	= US\$
<input type="checkbox"/> Banquet entrée: Citrus-Ginger Chicken	US\$25 x	= US\$
<input type="checkbox"/> Banquet entrée: Vegetarian Dinner	US\$25 x	= US\$
<input type="checkbox"/> Sunday Continental Breakfast	US\$12 x	= US\$
Late Fee (if registering after July 12, 2005)	US\$5 x	= US\$
TOTAL =		US\$

Make checks payable to **Willamette Valley DX Club**

Mail your completed form to:

Russ Fillinger, W7LXR
 3136 SW Florida St.
 Portland, OR 97219

Please take a minute to tell us about yourself:

Is this your first time attending this convention?

How many DXCC countries do you have confirmed (including deleted countries)?

In which year were you first licensed?

If you have any questions, please contact the Convention Chairman:
 Al Rovner, K7AR, 360-256-7437 or k7ar@arrl.net

Visit the **Convention website** at <http://www.wvdx.org/> for the latest information on program, prizes and who's already registered!

March Contest Report

By Mike Dinkelman, N7WA

Below, you'll find the current standings for the NW Trophy Competition. Please check your listing to make sure I have all your scores. The next event that counts is the WPX CW at the end of May. Good Luck!

	<u>CQWSSB</u>	<u>CQWVCW</u>	<u>ARRLCW</u>	<u>ARRLSSB</u>	<u>WPXSSB</u>	<u>TOTAL</u>
K7HBN	411,536	452,960				864,496
N7XY	52,130	198			16,192	68,520
W7VV	166,920					166,920
K7RL	3,947,640			2,033,058	5,920,045	11,900,743
W7WA	1,034,096	511,188	355,266		3,876,885	5,777,435
N7LOX	290,160					290,160
N7BK	400,896					400,896
W7QN	156,180	181,245		25,704	98,195	461,324
N0AX	688,764	32,872				721,636
N7WA	49,159	166,116				215,275
NG7Z		2,590				2,590
W7TMT	120,852	257,638	118,320	61,560		558,370
K7WA		2,730	10,212			12,942
N7BF	140,624	217,569	4,752	72,663		435,608
AB7RW		121,100				121,100
K7EG	160,176		100,500	127,980		388,656
K7LAZ		210,910				210,910
K7QQ		202,170				202,170
K7ZA		739,256				739,256
N6HR		319,976				319,976
N6MZ	76,179	8,400				84,579
N7BV		132,108		157,284		289,392
K7BTW	339,528					339,528
N7SEJ		2,046				2,046
N7YX	1,147,986					1,147,986
N7ZG		311,420		125,760	180,736	617,916
N9ADG		48,087				48,087
W7GTO	47,742	76,760	24,780	26,199		175,481
W7IJ	358,794					358,794
W7OM	652,860					652,860
WA7AVL	32,250					32,250
JA7NVF3	3,358,518					3,358,518
N7UK	37,668					37,668
KT7G					18,723	18,723
	13,600,740	4,029,589	651,498	2,557,545	10,183,4390	31,022,811
WVDXC	40,968,373	10,510,519	6,327,216	3,327,519	2,054,910	63,188,537
BCDXC	33,173,972	2,919,994	1,794,480	68,544	12,190,140	50,147,130

TOTEM TABLOID
Western Washington DX Club, Inc.
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The Totem Tabloid

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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 www.wwdxc.org or by email to info@wwdxc.org.