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QST Issue: Dec 2003 Title: The DBJ-1: A VHF-UHF Dual-Band J-Pole (February 2003 QST, pp 38-40)

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COMING CONVENTIONS

December 6-7 West Central Florida Section, Palmetto/Tampa*

January 10 SWOH Digital Symposium, Middletown, OH

January 18

New York/Long Island Section, Oyster Bay February 6-7

Mississippi State, Jackson

February 7-8 Florida State, Miami

*See November QST for details.

Attention Hamfest and Convention Sponsors: ARRL HQ maintains a date register of scheduled events that may assist you in picking a suitable date for your event. You're encouraged to register your event with HQ as far in advance as your planning permits. Hamfest and convention approval procedures for ARRL sanction are separate and distinct from the date register. Registering dates with ARRL HQ doesn't constitute League sanction, nor does another established event in the same area. We at ARRL HQ are not able to approve

dates for sanctioned hamfests and conventions. For hamfests, this must be done by your division director. For conventions, approval must be made by your director and by the ex-ecutive committee. Application forms can be obtained by writing to or calling the ARRL con-

vention program manager, tel 860-594-0262. Note: Sponsors of large gatherings should check with League HQ for an advisory on possible date conflicts before contracting for meeting space. Dates may be recorded at ARRL HQ for up to two years in advance.



Attention: The deadline for receipt of items for this column is the 1st of the second month preceding publication date. For example, your information must arrive at HQ by **December 1** to be listed in the **February** issue. Hamfest in-formation is accurate as of our deadline; contact sponsor for possible late changes. For those who send in items for Hamfest Calendar and Coming Conventions: Postal regulations prohibit mention in QST of prizes or any kind of games of chance such as raffles or bingo. (Abbreviations: Spr = Sponsor, TI = Talk-in fre-quency, Adm = Admission.)

Florida (Boca Raton)—Jan 10. Lew Lehman, K4LEW, k4lew@juno.com.

†Florida (Ft Myers)-Jan 10, 9 AM to 4 PM. Spr: Fort Myers ARC. Araba Shrine Temple, 2010 Hanson St; US 41 N or S to Hanson St, turn E onto Hanson St, Temple is 500 feet on right. Semi-nars, QSL card checking. *TI*: 146.88. *Adm*: \$5. Tables: \$15. Paul Horton, K4OVC, 4111 Hidden Acres Circle, N Ft Myers, FL 33903; 239-995-8951; phorton@peganet.com.

†Indiana (Greenfield)—Dec 14; set up Saturday 6-10 PM, Sunday 6-8 AM; public 8 AM to 2 PM. 6-10 PM, Sunday 6-8 AM; public 8 AM to 2 PM. Sprs: Hancock ARC and Greenfield Central Tech Club. Greenfield Central High School (Pavilion Building), 810 N Broadway; 1-70 to Exit 104 (St Rd 9), go S to first stop light past 1-70, turn right (New Rd), turn S on Broadway, go past 4-way stop to school on right. Vendors, VE sessions. TI: 145 32 Adva. dava access 55 Tebles 9 fe 145.33. Adm: advance \$4, door \$5. Tables: 8-ft \$13 (includes 1 admission); additional tables \$10 Greenfield, IN 46140-0822; 317-326-1659; kb9vzl@msn.com; www.w9atg.org.

[†]ARRL Hamfest

Michigan (Lowell)-Jan 3. 9 AM to 1 PM. Spr: AR Group of Youth in Lowell. Lowell High School, 11700 Vergennes, located 15 miles E of Grand Rapids; Lowell High School is 2 miles NW of the Rapids, Lowell; High School is 2 miles Nw of the city of Lowell; take Lincoln Lake Ave for 1/2 miles N to Vergennes, then 1/2 mile W to High School. VE sessions, lots of free parking. *T1*: 145.27 (94.8 Hz). *Adm*: \$5. Tables: \$5. Al Eckman, WW8WW, 11700 Vergennes, Lowell, MI 49331; 616-897-4125; AEckman@lowell.k12.mi.us.

*Wisconsin (Waukesha)—Jan 3, 8 AM to 2 PM. Spr: West Allis RAC. Waukesha County Expo Center, 1000 Northview Rd; I-94 W to Exit 294 (Cty J), S to Cty FT, W to Expo Center. Ham Radio, Computer, and Electronics Swapfest; VE essions (AMF Waukesha Lanes, across from Expo; bring your original license with photo-copy, CSCEs with 2 photocopies, 2 IDs, 1 must be photo ID); QSO party. *Adm:* advance \$4, door \$5. Tables: advance \$14 per 8-ft, door \$16 (if available); electrical outlet \$16 (advance only). Send business size SASE by Dec 27 to WARAC Swapfest, Box 1072, Milwaukee, WI 53201. Phil Gural, W9NAW, 414-425-3649; janphil@execpc. com; www.warac.org.

Attention All Hamfest Committees!

Get official ARRL sanction for your event and receive special benefits such as donated ARRL publications, handouts, and other support.

It's easy to become sanctioned. Contact the Convention and Hamfest Branch at ARRL Headquarters, 225 Main St, Newington, CT 06111. Or send e-mail to giannone@arrl.org.

Promoting your event is guaranteed to in-crease attendance. As an approved event sponsor, you are entitled to advertise your event in QST at special rates. Make your hamfest a success by taking advantage of this great opportunity. Call the ARRL Advertising Desk at 860-594-0207, or e-mail **ads**@ arrl.org. **N5F**

Gail Iannone

۲ giannone@arrl.org Convention Program Manager

VHF/UHF CENTURY 6

Compiled by Eileen Sapko Awards Manager

CLUB AWARDS

The ARRL VUCC numbered certificate is awarded to ama-teurs who submit written confirmation for contacts with the minimum number of Maidenhead grid locators (indicated in italics) for each band listing. The numbers preceding call signs are the assigned award numbers, issued in order of date received. The numbers following the call signs indicate claimed endorsement levels. The totals shown are for cred-its given from August 9 to October 8, 2003. The VUCC application form, field sheets and complete list of VHF Awards Managers can be found on the VUCC Web site at www.arrl.org/awards/vucc. An SASE to ARRL is required if you cannot download these forms. If you have questions relating to VUCC, send an e-mail to vucc@ arrl.org. The ABBL VUCC numbered certificate is awarded to ama-

arrl.org

50 MHz 100				144 MHz 100	
1316	ABØCT	G8BQX	575	621 AA4ZZ	
1317	W1DYJ	JF1IRW	200	K1LH	
1318	AC4Q	ZS6WB	600	KU4V	
1319	EI2JD	KØTLM	625	K5VH	
1320	K5VH	KUØA	175	222 MHz	
1321	K7AWB	WA1MKE	200	50	
1322	W5WVO	K1LH	575	115	KMØT
1323	NL7AU	K1BD	200	AA5C	
1324	KØWYN	K1SIX	950		
1325	K4KJZ			432 MHz	
1326	AB4GG	W3EP	925	50	
1327	KC2HLI	K4RWP	625	304	KU4WW
1328	KT4HN	W5CIA	350	305	NY2Z
1329	KU4WW	AA5C	425		
1330	AD6W	NEØP/5	250	1296 MHz	
				25	
1331	WA4JA	AC5DK	150	138	K5VH
1332	N5KI	N6JV	550	1000000	Concernant of
1333	WA4QMQ	K6QG	400	2.3 GHz	
1334	ZR6DXB	W07GI	150		10
1335	KB3JGS	WX7M	450	70	K5VH

3.4 GHz		1	10 GHz	Satellite	
3	5 K5VH W1AIM	140 141 142	N7MWV K5VH WB8TGY	128 K 129 N	C2HLI E0P/5 34AFK
- 12	.7 GHz 5	143 144	KA1OJ N6JV	XE2AT N1HOQ	625 300
5 KE7SW		24 GHz		N5AFV K5OE	500 850
		22 23	N1JEZ WW8M	QST.	

FEEDBACK

◊ In "The DBJ-1: A VHF-UHF Dual-Band J-Pole" (Feb 2003, pp 38-40), the length of the RG-174 matching stub should be shortened a bit to get the antenna closer to a 1:1 SWR. Using the formula for line length versus frequency and wavelength,

 $L = (VF \times 984 \times N) / f$

where

4

L = length (in feet),

VF = velocity factor.

N = number of wavelengths and

f = frequency in MHz

◊ The velocity factor of RG-174 (Belden 8216) is 0.66 (Belden 7805 cable is 0.74) and N = 0.25 for a ¹/₄ wavelength stub. Using the above equation, the matching section becomes 4.33 inches, rather than the 5.25 inches shown. Thanks to Bruce, W3NJ, for pointing it out.

He's using a stub length of 4.5 inches and getting 1:1 with that length. As was pointed out in the article, however, you should use an SWR analyzer or bridge for final tuning

◊ "The Dangers of Cathode Keying" (Nov 2003, pp 28-30) states that the cathode of the keyed stage floats up to plate potential. Actually, the open-circuit cathode potential will be limited by the grid-cutoff voltage, which in most 1950s-era tube transmitters is about 100 V dc. Thanks to P. Bertini, K1ZJH, for pointing it out. This will, of course, be the opencircuit key voltage. It doesn't change the argument for safety, however. That key-line is a good current source, as the full final plate current passes through the key (and more, if the oscillator is also keyed). It's possible, therefore, to draw 50-100 mA by touching the key contacts with moist skin. The bottom line? Use a keying relay if you can and be careful around the key when you're using a vintage cathodekeyed tube rig

◊ The Feedback for "The Doctor is IN" (Oct 2003, p 106) should read "...the formula for the LC constant should be used with L in uH and C in pF (not H and F) in addition to f in MHz." That derivation is straightforward if one accounts for the 10-6 term for uH, the 10-12 term for pF and the 106 term for MHz .- tnx Fred Grant, AA4NG

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