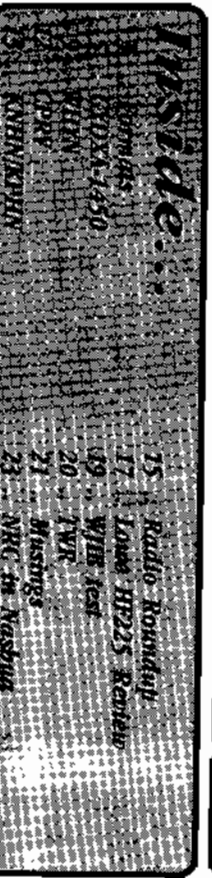


DX News

Volume 61, No. 22 - March 7, 1994 (ISSN 0737-1659)

• Serving DXers since 1933 •



CPC Test Calendar

WTWO	1580	Mar. 7, 1994	0400-0500
WNNZ	640	Mar. 13, 1994	0100-0200
EKIN	930	Mar. 13, 1994	0200-0230
WTLS	560	Mar. 14, 1994	0000-0030
WSER	1550	Mar. 20, 1994	0000-0230
ERFQ	1260	Mar. 21, 1994	0230-0300
WNRK	1260	Mar. 27, 1994	0000-0230

WSER-1550 - 192 Maloney Road - Elkton, MD 21921 will conduct a DX test on Sunday morning, March 20, between midnight and 2:30 am EST. The test will include various tones, Morse code ID's, and march music. A portion of the test will be run on their night power of 1.8 watts. Phone calls (prepaid only) will be taken at (410) 398-3883. Reception reports may be sent to Mark Crouch, GM/CE. Arranged by Dave Schmidt for the National Radio Club CPC.

WNRK-1260 - P.O. Box 8152 - Newark, DE 19714 will conduct a DX test on Sunday morning, March 27, between midnight and 2:30 am EST. The test will include various tones, Morse code ID's, and march music. Phone calls (prepaid only) will be taken at (302) 737-5200. A portion of the test will be run on their night power of 42 watts. Reports may be sent to Dave Schmidt, CE. Arranged by Dave Schmidt for the National Radio Club CPC.

From the Publisher ... You can call this issue "Not the DX News" if you like. What happened? Well, two editors are on vacation, Bill Hale's column hadn't arrived as of Saturday, and I haven't been able to access America Online since February 21 to download Jim Renfrew's DXD. I've even tried out-of-state numbers. The AOL service reps admit that mailing free software disks to computer magazine subscribers has probably caused the problem, and that although they're working to add new lines, etc., that the problem might not be alleviated until the end of March. So I would suggest that anyone who has tried to reach me at plab@DXER@aol.com be patient, and that editors mail me back-up disks with their columns on

them until AOL lives up to its promises.

Meanwhile, other news ... Ronald J. Hunsicker writes: "Dallas Lankford's method of removing the static associated with the tuning knob of the Drake R-8 drove me nuts ... I don't have the junk box that he has, and all the bits and pieces that fell to his hands eluded mine.

"After a bit of thought, I have a suggestion for those persons whose junk boxes resemble mine: Obtain a bit of brass shim stock, cut a piece about 7/16" wide and 3/4" long and drill two holes in it, 1/4" in diameter. It helps to clamp the shim stock between two pieces of wood to reduce warping of the stock. Expand the holes with a small file so they will pass over the tuning shaft freely. Then bend the shim stock in half so the centers of the holes coincide. Do not fold it; do not crease it! Now you have a spring. Place a thin 1/4" brass washer on either side of the spring and put this assembly on the tuning shaft. Trim the edges of the spring for clearance. Reinstall the tuning knob so that the tension from the spring is comfortable. The knob will be a bit further away from the face plate, which

(continued on page two)

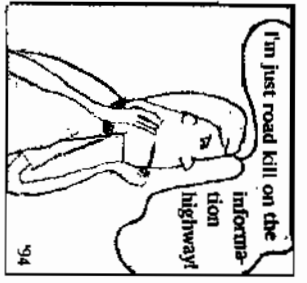
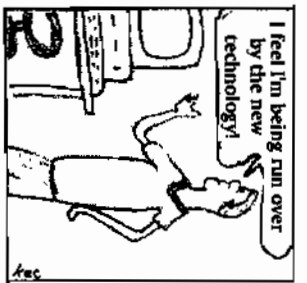
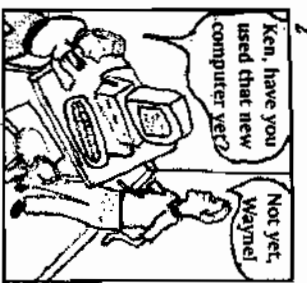
DX Time Machine

From the pages of DX News:

50 years ago ... from the Feb. 26, 1944 DXN: WRBL, Columbus, GA was issued an FCC license for a 250-watt synchronized transmitter at Fort Benning, GA, on 1230 kcs. Sully Sullivan, Pittsburgh, PA heard an all-night broadcast from WOPN-640 on Feb. 4, overriding KFI at times. (Thanks again to Kermit Geary for writing up the 50-year-ago items.)

25 years ago ... from the March 8, 1969 DXN: Lon Bertram got the computerized Log project underway ... G. P. Nelson's "NW Signal Paths, Part 1", concerning Great Circle paths, appeared.

10 years ago ... from the March 5, 1984 DXN: The H. John Clements Memorial DX-odition was scheduled for March 23 at the Twentyfour Palms, CA beverage site.



(continued from page one)

I found to be an advantage." Thanks for that tip, Ron!

Two for-profit notes: NRC's Glenn Hauser updates information daily on "DX Daily". The Shortwave Information Line, which is accessible by calling 1-900-656-5455 (at 95¢ per minute) 24 hours a day. And David M. Conroy WBZCR is offering The Kenwood R-5000 Communications Receiver User's Handbook for \$8.95 U.S. postpaid (to Canada also). Check the February Monitoring Times, page 94, for a recent review of the book.

Mug collectors may be interested in the "Radiocon '94" coffee mug, available for \$4.00, postpaid, from Southern California Area DX'ers - 6398 Pleasant Drive - Buena Park, CA 90620. The mug is part of S.C.A.D.S. promotion of their convention to be held August 10-14 in Costa Mesa, CA. And the 7th Annual Winter-SWT Feats is just around the corner. March 11-13, in Kulpville, PA. If you

need information, write to P.O. Box 591 - Colmar, PA 19015. Thanks in advance to Harry Mayo and Dave Schmidt for representing the NRC at the Festival.

Don't forget that individual copies of ANARC's newsletter, "Update", are available for \$1.00 and an SASE sent to Bill Kurtsach, ANARC Publisher - 5607 Lincoln Road - Ontario, NY 14519. Subscriptions are not available.

Welcome to these new members: Janis S. Gerik, Ripon, CA; Patrick Mason, Laurel, MD.

Don't look for a DX News in your mailbox next week. No, we're not going on strike; next week just marks the first "skip" week for DXN! '73.

Remaining DXN Schedule, Volume 61

#	Deadline/Pub. Date	27	June 10	June 20
23	Mar. 11	Mar. 21		
24	Apr. 1	Apr. 11	28	July 8
25	Apr. 15	Apr. 25	29	Aug. 5
26	May 13	May 23	30	Sept. 9
			30	Sept. 19

Not sure about renewing?

Consider these benefits of a membership in the National Radio Club: 720+ pages per year of varied and comprehensive DX and radio information ... reduced prices for publications ... responsive editors ... and the friendliest bunch of DX'ers in the world. Why not send that renewal check to Ron Musco at the membership center today!



The improved NRC AM Radio Log, 14th Edition, is the most accurate listing of AM radio stations in the U.S. and Canada, with cross reference listings. 3-hole punched for standard binders. Only \$16.95 to U.S. and Canadian members, \$19.95 to U.S. non-NRC member, \$20.95 Canadian non-NRC member. Airmail: to Latin America, \$21.00; Europe, \$24.00; rest of the world, \$28.00.
Order from: NRC Publications - Box 164 - Mannsville, NY 13661 (NY residents, please add sales tax)

Formats

Changes in programming status; reported by listeners

Tony Fitzherbert
356 Jackman Avenue
Fairfield, CT 06430-1728

We have a lot of format changes in the past week, many of which emphasize that the radio business is NOT the profession in which to develop a career. The vast multitude of format changes involve replacing locally produced programming by real people for the bland satellite-fed fare which inspires interest and bulid ratings! Our column is from Dave Schmidt and the M Street Journal. A couple of items... WPC-1500, Dallas, GA, ex-WKRP, is again silent. And the urban contemporary institution in St. Louis, KMTZ-1600, is no more. The call is now KSTL, and the format is SMN urban gold. These items are from M Street Journal. Here, with thanks to Dave and MSJ, are the many format adjustments received in the past week.

- 580 WBS NC Lambertson
- 580 WBE TN Rockwood
- 590 WRW NY Albany
- 600 KOCO CA San Diego
- 610 KSKE CO Vail
- 620 WZON ME Bangor
- 700 KSTR CA Soledad
- 710 WBB MO Kansas City
- 840 WCGS SC Columbia
- 850 WYLT NC Raleigh
- 850 WPTD TN Fairview
- 860 KSPR TX Naogdoches
- 870 KORA NV Laughlin
- 900 WATV AL Birmingham
- 900 WYLS KY Pikeville
- 900 WJAM NC Williamston
- 910 WSEA PA York
- 940 KCEA AZ Tucson
- 960 WGRD FL Lake City
- 980 KQAB AR Darlington
- 980 WLOS GA Gainesville
- 1010 KDJA LA DeRudder
- 1040 WYFX FL Boynton Beach
- 1050 WNES KY Central City
- 1050 KXEX OK Lawton
- 1050 KREZ TX Slaton
- 1050 KEF WA Dishman
- 1070 WTSO WI Madison
- 1120 KGFL AR Dermott
- 1120 WKRM PA Oil City
- 1130 KONA AZ Prescott
- 1130 LSP KY Murray
- 1140 KHKK CA Sacramento
- 1190 KXBD CA Vallejo
- 1190 KXBD MO Desoto
- 1190 WMBE PA Hughesville
- 1190 WMBN TN Humbolt
- 1230 WANO KY Pineville
- 1230 WNTN MD Cumberland
- 1230 WEEE TX Nacogoches
- 1230 KREO CO Colorado Springs
- 1240 KQBY OR North Platte
- 1240 WDAE FL Tampa
- 1250 WJLM PA Emporium
- 1280 WTRY FL Sarasota
- 1280 KSKG KS Attanasas City
- 1290 WPKC PA Altoona
- 1300 WXXY FL Cocoa Beach
- 1300 WING NJ Ewing
- 1300 WKCY VA Harrisonburg
- 1310 KNOX ND Grand Forkes
- 1320 CHOK BC Vancouver
- Southern Gospel, country music//FM.
- Southern gospel.
- All news, "News Radio 590".
- Talk.
- Alternative // FM.
- All sports.
- Classical music // FM.
- Farm news and information, country music.
- New station, Christian country music.
- Ex WKIX, still standards.
- SMN Real Country music.
- News, talk.
- SMN Real Country Music.
- SMN Urban Gold.
- Country music // WZLK.
- Religion.
- News, talk, sports.
- Ex-KXFM, adult standards.
- Drops Black Gospel for Unistar Standards.
- Talk.
- SMN Standards.
- SMN Adult Contemporary.
- SMN Urban AC.
- Country music.
- SMN hot adult contemporary.
- Contemporary Christian.
- Oldies // FM, drops travel information.
- Now Unis. CNN Headline News.
- Silent, to be sold to great River Vocational Technical School, look for an interesting format here!!!
- JSN Soft AC.
- Ex-KWDS, now local news and talk.
- FTP Talk.
- Ex-KRAK, Unistar Talk.
- Urban Gold.
- Southern Gospel.
- Religion // WJSA.
- JSN AC // WJST.
- Country music.
- News, talk, sports.
- urban gold.
- SMN Pure Oldies.
- SMN Oldies.
- News, talk.
- JSN Oldies.
- Country "Froggy 1250".
- Unistar standards.
- Talk, business, and health info.
- WMI talk.
- Unistar standards.
- All reggae // WOKB.
- Still Black Gospel (Dave Schmidt).
- WMI, and UTM Talk.
- Country music, talk.
- Ethnic variety.



1120	WOJK	FL	Jacksonville	- Talk, sports, six networks!!!
1120	WITS	MI	Lansing	- Oldies.
1340	KETA	AR	Batesville	- Oldies.
1340	WTGO	GA	Atlanta	- Drops long standing urban format for news and talk.
1340	WBRT	GA	Lyons	- Country music // FM.
1340	WBBS	KY	Murray	- Country music.
1340	WBGS	ME	Houlton	- Drops Christian for AC // FM.
1340	WAML	MS	Laurel	- Urban "Magic 1340".
1340	WJMN	NY	Jamestown	- Oldies, talk.
1360	KCMG	MO	Mountain Grove	- Gospel // FM.
1360	WNNJ	NJ	Newton	- JSN Oldies.
1360	WSTI	OH	Cincinnati	- Unistar standards.
1370	KAWM	AR	Huber Springs	- Country / FM, Southern Gospel.
1370	KLBA	IA	Albia	- Easy listening.
1370	KGNO	KS	Dodge City	- Country music.
1380	WTVR	FL	Take Worth	- SMN Adult Standards.
1380	WASP	MO	St. Louis	- Country music // WKXX.
1380	WTVR	VA	Richmond	- New SMN Standards.
1390	WISK	GA	Americus	- JSN Oldies, talk.
1400	WAVD	AL	Decatur	- Oldies // WNU.
1400	KBZT	CA	Indio	- Unistar standards.
1400	KGVJ	TX	Grainville	- Country music.
1410	WMBR	FL	Fort Myers	- Country music // FM.
1410	WERT	FL	Tallahassee	- SMN urban gold.
1410	WPCG	SC	Clinton	- Unistar country music.
1430	WNVZ	TN	Germanatown	- New rock (??).
1450	WMBH	MO	Joplin	- Country music.
1450	WHSC	SC	Hartsville	- All sports, hours are 0600 - 2000 only!!!
1450	WASK	TN	Lafayette	- News, talk.
1450	KRIZ	WI	Fond du Lac	- News, talk, sports.
1460	KDVI	IA	Des Moines	- Ex-KGO, now religion.
1470	KWSL	IA	Sioux City	- Unis adult rock.
1490	KXIQ	IA	Indianola	- JSN Country music.
1490	WTRQ	MI	Manistique	- JSN Soft AC.
1490	WEEG	MI	Whitehall	- Unistar Hot Country music.
1490	WBOB	PA	Leittown	- Standards, talk, sports, owned by sports announcer Merrill Reese (Dave Schmidt).
1490	KBST	TX	Big Spring	- Country // FM, talk.
1510	KTTD	CA	San Rafael	- To be standards // KRQI.
1510	KCRX	TX	Childress	- Oldies.
1520	WTCG	KY	Greensburg	- SEN Sports.
1530	WNRS	TN	Brownsville	- Country music, talk.
1540	WPRR	NY	Albany	- All talk, "Talk Radio 1540".
1550	WOCR	NY	Canandaigua	- Drops country music for oldies.
1560	KDVA	AR	Dumas	- Southern Gospel.
1560	MSHY	IL	Shelbyville	- Flip Talk.
1560	KCJY	IA	Iowa City	- JSN Soft AC.
1560	WRIN	IN	Benselaeer	- JSN CPM.
1560	WMOH	MD	La Plata	- AC // FM.
1560	KKJD	OK	Sallisaw	- Country music.
1570	WBDX	PA	Doylstown	- "Your 70's Connection", all 1970's music (Dave Schmidt).
1580	WPKY	KY	Princeton	- Talk, oldies.
1590	KMBG	IA	Boone	- Country music.
1590	WEHH	NY	Elmira Heights	- Unistar standards.
1590	KMBD	OR	Tillamook	- Talk.
1600	WOKB	FL	Winter Harbor	- All reggae all of the time!!!
1600	WBAV	NC	Charlotte	- Black gospel and some urban gold.

Well, a good column! Got your format changes in!

73's!

Handwritten mark

What a Time-saver - the political divisions in the U.S. and Canada. Two lists are included: one by county, and by state. Compiled by Bill Hale and designed and produced by Wrote and Joan Higgins. \$4.95 for members, \$8.95/non-members. Order from GCR from the NRC Publications center, NY residents, please include sales tax.

County Cross Reference

Graveyard Achievements

Bill Hale
495 Creekvew Drive
Meridian, ID 83642-3241

Distance records for stations logged on graveyard frequencies

		1450 KHz		Logged from Jan 1, 1960 to Present		Date of Last Update: February 6, 1994	
				* indicates North American record-holder			
WDNG	AL	Anniston	Carl Dabelstein	Overland Park, KS	615		
WSMQ		Bessemer	Mike Hawk	Omaha, NE	732		
WDLK		Dadeville	Jim Renfrew	Rochester, NY	837		
WDIG		Dothan	Alan Imprescia	New York, NY	914		
WPIX		Huntsville	Carl Dabelstein	Lincoln, NE	698		
WLAY		Muscle Shoals	Tim Kerfoot	Weston, ON	780		
KLAM	AK	Cardova	Esa Hanninen	Lennunjoki, Finland	3491		
KDAP	AZ	Douglas	Gene Allen	Vallejo, CA	870		
KNOT	DC	Prescott	Bruce Reynolds	Warrensburg, MO	1076		
KNSL		Show Low	Robert Kramer	Chicago, IL	1328		
KOLD		Tucson	Laurie Boyer	Invercargill, NZ	7348		
KOKO	AR	Mena	Mike Hardester	Modesto, CA	*674		
KENA	CA	Byrthe	Stephen Ponder	Fr Smith, AR	59		
KYOR		Burney	Mike Sanbun	Balfower, CA	214		
KAVA		Escondido	Mike Hardester	Modesto, CA	224		
KOWN		Palm Springs	Laurie Boyer	Bellflower	92		
KPAL		Porterville	Frank Merrill	Invercargill	7403		
KTTP		San Francisco	Esa Hanninen	Nemana, AK	2319		
KBST		San Francisco	Roy Millar	Lennunjoki	4897		
KSQL		Sonora	Don Kasky	Marysville, WA	*680		
KVNL		Ventura	Dale Park	San Francisco, CA	107		
KVEN		Yuba City	Bruce Reynolds	Kaneoh, HI	2538		
KOKO	CO	Alamosa	Esa Hanninen	San Jose, CA	*259		
KGJW		Buena Vista	John Merrill	Lennunjoki	4799		
KDMN		Greely	John Wilkins	Milan, MI	1222		
KKRE		Silverton	Jim Boehm	Wheat Ridge, CO	85		
KATR		Bridgeport	Niel Wolfsh	Abisko, Sweden	4379		
KDRW	CT	DE	Frank Wheeler	San Antonio, TX	*834		
WNAB	DC	Washington	Rodney Valdron	Winnipeg, MB	959		
WILL	FL	Brooksville	Rodney Valdron	San Antonio, TX	959		
WVJB		Daytona Beach	Jerry Starr	Winnipeg, MB	959		
WMEJ		Miami	Andy Rugg	San Antonio, TX	4379		
WNSR		Pensacola	Chris Lucas	Winnipeg, MB	959		
WBSP		Sarasota	Alan Imprescia	San Antonio, TX	959		
WSTU		Stuart	Don Treford	Winnipeg, MB	959		
WTFAL		Tallahassee	Charles Reh	San Antonio, TX	959		
WBHF	GA	Cartersville	Steve Francis	Winnipeg, MB	959		
WCON		Cornelia	Carl Dabelstein	San Antonio, TX	959		
WVAV		Milledgeville	Ron Musco	Winnipeg, MB	959		
WQOT		Savannah	Mike Corboy	San Antonio, TX	959		
WVLD		Valdosta	John Wilkins	Winnipeg, MB	959		
KBFI	I	Bonners Ferry	Shawn Axelrod	San Antonio, TX	959		
KVSI		Montpelier	Les Carpenter	Winnipeg, MB	959		
KORI		Payette	Esa Hanninen	San Antonio, TX	959		
KYET		Twin Falls	Roy Millar	Winnipeg, MB	959		
KEZI		Cicero	Ole Alm	San Antonio, TX	959		
WVON	IL	Cicero	Chris Lucas	Winnipeg, MB	959		

WKEL	Kewanee	Pete Taylor	Durham, NC	700
WCVS	Springfield	Russ Edmunds	Parisprany, NJ	818
WAEX	IN Fort Wayne	Niel Wolfish	Winnipeg	884
WXXW	Jeffersonville	Niel Wolfish	Winnipeg	1021
WASK	Lafayette	Niel Wolfish	Winnipeg	857
WAOV	Vincennes	Laura McCusker	Hillsdale, NJ	731
KCDR	IA Cedar Rapids	Laurie Boyer	Invercargill	8630
		John Wilkins	Wheat Ridge	*717
KWBW	KS Hutchinson	Shawn Axelrod	Winnipeg, MB	818
WTGO	KY Campbellsville	Russ Edmunds	Little Silver, NJ	652
WWXL	Manchester	Jeff Falconer	Clinton, ON	471
WPAD	Paducah	Russ Edmunds	Parisprany	825
WTKS	West Liberty	Charles Reh	Leannington	286
KSIG	LA Crowley	Roy Millar	Marysville, WA	2000
KNOC	Natchitoches	Frank Merrill	Leannington	883
WNPS	New Orleans	Charles Reh	Leannington	933
WLKN	Rockland	Don Lynch	Wakenfeld, MA	246
WRKD	Rockland	Steve Whitt	Anglesey, N. Wales	3013
WXIV	South Paris	Rodney Valdron	Petit Rocher	340
WTHU	MD Cumberland	Rodney Valdron	Petit Rocher	860
WCEA	Thurmont	Charles Reh	Leannington	317
WNAS	MA Newburyport	Don Lynch	Wilbraham, MA	88
WALZ	Springfield	George Walton	Easton, PA	180
WHIC	MI Alpena	MB DDX*Pediton &	Vahalla Beach, MB	735
WHTC	Holland	Carl Dabelstein	Ornaha, NE	514
WMIQ	Iron Mountain	Niel Wolfish	Winnipeg	503
		Shawn Axelrod	Winnipeg	(Tie) 503
WIBM	Jackson	Ron Musco	Windsor	580
WKLA	Ludington	Jeff Falconer	Clinton	243
WNBY	Newberry	Russ Edmunds	Parisprany	679
WHIS	Port Huron	Steve Francis	Alcoa	503
KATE	MN Albert Lea	Niel Wolfish	Winnipeg	512
		Shawn Axelrod	Winnipeg	(Tie) 512
KBUN	Bemidji	Gary Atkins	Louisville, KY	805
KBMW	Dreckeridge	Esa Hanninen	Lemmenjoki	3968
		Morris Sorensen	Leaf Rapids, MB	*755
WELY	Ely	Mike Corboy	Canfield	682
KCID	St. Cloud	Don Trelford	Scarborough, ON	736
WROX	MS Clarksdale	Andy Rugg	Waterloo, ON	820
WCUJ	Columbia	Charles Reh	Leannington	847
WYXN	Jackson	Charles Reh	Leannington	790
WMPG	Meridian	Don Trelford	Scarborough	927
WNAT	Natchez	Bill Lackey	Kingsville, TX	455
WROB	West Point	Jerry Starr	Youngstown	685
KFTW	MO Fredericktown	Carl Dabelstein	Omaha	660
WAMBH	Joplin	Niel Wolfish	Winnipeg	905
		Shawn Axelrod	Winnipeg	(Tie) 905
KIRX	Kirksville	Niel Wolfish	Winnipeg	730
KOKO	Warrensburg	Shawn Axelrod	Winnipeg	(Tie) 730
KWPM	West Plains	Paul Mount	Teaneck, NJ	1055
KOXL	Bozeman	Tom Sundstrom	Willingsboro, NJ	960
KUDI	Great Falls	Laurie Boyer	Invercargill	8016
KODI	Roy Millar	Esa Hanninen	Lemmenjoki	4114
KGMY	Missoula	Gene Allen	Marysville	*512
KRBM	Red Lodge	Gene Allen	Vallejo	745
KTXX	Whitefish	Roy Millar	Marysville	840
KVCK	Wolf Point	Niel Wolfish	Winnipeg	375
		Shawn Axelrod	Winnipeg	402
KWBE	NE Beatrice	Shawn Axelrod	Winnipeg	(Tie) 402
KONE	NV Reno	Frank Merrill	Winnipeg	668
WKXL	NH Concord	Jeff Falconer	Nenana	2086
			Clinton	504

WJIN	NJ Atlantic City	Esa Hanninen	Lemmenjoki	3962
WCTC	New Brunswick	Steve Francis	Alcoa	*574
KLOS	NM Albuquerque	Rodney Valdron	Petit Rocher	665
		Laurie Boyer	Invercargill	7703
		Roy Millar	Marysville	*1179
KLMO	Clayton	Frank Merrill	Milan	1109
KOBE	Las Cruces	Mike Hawk	Omaha, NE	861
WCLI	Portales	Shawn Axelrod	Winnipeg	1115
WVSC	NY Cortland	Don Lynch	Lynn, MA	309
WHDL	Clens Falls	Charles Reh	Leannington	463
WKDP	Olean	Charles Reh	Leannington	209
WKAL	Poughkeepsie	Rodney Valdron	Leannington	580
WATA	Rome	Jeff Falconer	Petit Rocher	209
WNCN	NC Boone	Robert Kramer	Clinton	307
WVHV	Gastonia	Charles Reh	Chicago	519
WHKP	Hendersonville	Andy Rugg	Leannington	472
WNOS	New Bern	Frank Merrill	Montreal	695
WBES	Spring Lake	Don Lynch	Milan	469
KCCA	NC Rugby	Mike Corboy	Chelmsford, MA	601
WIER	OH Dover	Roy Millar	Canfield	555
WMOH	Hamilton	Jeff Falconer	Marysville	1034
		Niel Wolfish	Clinton	214
WIBC	Sandusky	Shawn Axelrod	Winnipeg	1003
KVHW	OK Altus	Don Trelford	Winnipeg	(Tie) 1003
		Niel Wolfish	Scarborough	227
KGEF	Shawnee	Shawn Axelrod	Winnipeg	1055
KSIV	Woodward	John Wilkins	Winnipeg	543
KXOO	OR Eugene	Niel Wolfish	Winnipeg	(Tie) 1055
		Esa Hanninen	Wheat Ridge	927
		Esa Hanninen	Lemmenjoki	4479
		Mike Hardesler	Modesto	*457
		Esa Hanninen	Lemmenjoki	4591
KFLS	Klamath Falls	Esa Hanninen	Lemmenjoki	*373
KBLM	LaGrande	Roy Millar	Marysville	4340
KBPS	Portland	Tim Hall	Vancouver, WA	8
WVGO	PA Erie	Don Lynch	Boston, MA	460
WVRA	Franklin	UK DDX*Pediton &	Sheigra, Scotland	3326
		Steve Francis	Alcoa	*445
WDAD	Indiana	Steve Francis	Alcoa	423
WPAM	Pottsville	Mike Corboy	Canfield	245
WMAF	South Williamsport	Frank Merrill	Toledo, OH	357
WMAJ	State College	Rodney Valdron	Petit Rocher	770
WJPA	Washington	Steve Francis	Alcoa	364
WKRI	RI West Warwick	Derek Taylor	Montreal, England	3163
WOSN	SC Charleston	Andy Rugg	Winnipeg	930
WCBS	Greenwood	Frank Merrill	Winnipeg	545
WHSC	Hartsville	Carl Dabelstein	Winnipeg	478
WQOK	Myrtle Beach	Jim Rantrew	Omaha	655
KBPS	SD Belle Fourche	Carl Dabelstein	Rochester	478
		Mike Hawk	Omaha	463
KVNT	Yankton	Niel Wolfish	Winnipeg	(Tie) 463
		Shawn Axelrod	Winnipeg	485
		Tim Hall	Winnipeg	(Tie) 485
WLAR	TN Athens	Mike Corboy	Canfield	515
WMOG	Chattanooga	Rick Carr	Austin	802
WDSC	Dyersburg	Don Trelford	Scarborough	744
WSMG	Greeneville	Carl Dabelstein	Lincoln	821
WLAF	La Follette	Steve Francis	Alcoa	43
WGNB	Murfreesboro	Don Trelford	Scarborough	660
KAYC	TX Beaumont	Eric McIntosh	Invercargill	8026
		Michael Hawk	Omaha	*778
KBEN	Garriso Springs	Carl Dabelstein	Lincoln	865
KCTI	Gonzales	Jim Boehm	San Antonio	60

KMBL	Junction	Roy Miller	Marysville	1680
KCYL	Lampasas	Stephen Ponder	R. Worth, TX	140
KNET	Palestine	Rich Eddie	St. Louis	620
KSNY	Snyder	Brett Haravan	Chula Vista, CA	942
KURA	Ut Moab	Carl Dabelstein	Omaha	761
KEYV	Provo	Shawn Axelrod	Winnipeg	969
KDXU	St. George	Bill & Nancy Hardy	Aberdeen, WA	862
KTNS	VT Barre	Rodney Valdron	Petit Rocher	410
WTSa	Brattleboro	Jeff Falconer	Clinton	452
WFTR	VA Front Royal	Rich Eddie	St. Louis	645
WENZ	Hughland Springs	Frank Merrill	Milan	461
WREL	Lexington	Bob McCoy	Lincoln, NE	949
WMVA	Martinsville	Greg Coniglio	Clarence, NY	439
WFOG	Suffolk	Chris Lucas	Ithaca, NY	400
KAYO	WA Aberdeen	Esa Hanninen	Lennenujoki	4291
KCLX	Colfax	Bill Hardy	Aberdeen	306
KONP	Port Angeles	Esa Hanninen	Lennenujoki	4212
KAYB	Puyallup	Pete Taylor	San Francisco, CA	653
WWVB	WV Madison	Frank Merrill	Holland, OH	272
WPAR	Parkersburg	Jim Renfrew	Rochester	318
KFIZ	WI Fond du Lac	Morris Sorensen	Leaf Rapids	1055
WHRY	Hurley	Niel Wolfish	Winnipeg	442
		Shawn Axelrod	Winnipeg	(Tie) 442
WDLB	Marshfield	Dont Treford	Scarborough	538
WRCO	Richland Center	Niel Wolfish	Winnipeg	593
		Shawn Axelrod	Winnipeg	(Tie) 593
KBBS	WY Buffalo	Gene Allen	Vallejo	915
KVOW	Riverton	Mike Sanburn	Ballflower	820
CFHC	AB Canmore	Roy Miller	Marysville	392
CBXC	Coleman	Roy Miller	Marysville	458
CKYR	Jasper	Shawn Axelrod	Winnipeg	1244
CBTS	BC Cache Creek	Tim Hall	(near) Ashcroft, BC	15
CBET	Chetwynd	Frank Merrill	Nenana	1110
CBXH	Cooper Creek	Roy Miller	Marysville	413
CHBV	Houston	Esa Hanninen	Lennenujoki	3813
CKSP	Summerland	Tim Hall	Banff, AB	207
CBG	NE Gander	Olle Alm	Göteborg, Sweden	2694
CFAB	NS Windsor	UK DXpedition E	Shegira	2604
CFUR	ON Brockville	Charles Reh	Lennuington	386
CHUC	Colbourg	MB DXpedition &	Valhalla Beach	1027
	Ear Falls	Niel Wolfish	Winnipeg	227
CIBM	PQ Causapscal	Andy Rugg	Montreal	240
CHBF	Granby	Esa Hanninen	Lennenujoki	3549
		Charles Reh	Lennuington	*545
CBMA	Noranda	Morris Sorensen	Kirkland Lake, ON	78
CHRT	St. Eulouiere	Joe Kurth	Untonotown, MD	665
CHVZ	AGU Agusanenites	Tim Hall	20m W of Puerto Vallarta, Jal	3129
XESS	BCN Ensenada	Richard E. Wood	Hilo, HI	358
XEABECHIH	Ojinga	Jim Boehm	San Antonio	1106
XEIM	NL Monterrey	Michael Hawk	Omaha	127
XEID	NAY Tecuala	Tim Hall	20m W of Puerto Vallarta	736
XECB	SON San Luis Rio Colorado	John Wilkins	Wheat Ridge	468
XECM	TAMS Ciudad Mante	Jim Boehm	San Antonio	263
XEYH	Matamoros	Jim Boehm	San Antonio	4179
VSB1	BER Hamilton	Esa Hanninen	Lennenujoki	4135
R Antilles	St. Vincent	Steve Whit	Anglesey	1500
CMJF	CUB C Amancio R	Shawn Axelrod	Orleans, ON	1500

£ = UK DXpedition (Steve Whit, Mark Hartam, Clive Rooms)
& = Manitoba DXpedition (Shawn Axelrod & Wayne McKae)

Station Profile

A special feature about a unique station

Tony Fitzherbert
356 Jackman Avenue
Fairfield, CT 06430-1728

WHYNY AM RADIO 560

world and national news. Over its half century of service, WHYNY has brought rock and roll, colorful disc jockeys, unique contests, and more recently a comprehensive diet of news, sports and information to the Pioneer Valley. In return, its audience has made WHYNY the top station in its market in the area ratings. In fact, WHYNY has carved a major niche for itself in this Central Massachusetts city of over 150,000 people, on the east bank of the Connecticut River, famous for its "Big E" Exposition and the Basketball Hall of Fame.

WHYNY first went on the air in 1941 when the Charles DeRose family, owners of Northampton's Hampshire County Gazette branched into radio. The new station, whose call letters stood for Holyoke-Northampton, broadcast on 1400 KHz, with 1000 watts power. The first studio building, in the Village of South Hadley, presently serves as a local bar. Today patrons step over the trap doors in the floor for the wires, and look through the portholes in the former studio area, never realizing, nor caring that their vantage hole was once the home of the area's most powerful radio station. WHYNY broadcast ABC Network programs, including radio soap operas, daily fare in innumerable Pioneer Valley homes. At twilight, the area's children, in from their after school play, would enjoy Sgt. Preston of the Yukon, Sky King, and Bobby Benson and in the evening other ABC programs would be heard. The original antenna, a single tower was on the Holyoke - Baskinhampton boundary.

Charles DeRose soon realized that 20 miles down the Connecticut River lay a huge market - the Springfield - Chicopee - Holyoke area, with a combined population of about 650,000 people. Thus, to get a strong signal into Springfield, and still cover his present listening area, he applied for 5000 watts power on 560 KHz. With the power increase and frequency change, WHYNY was required to protect WGAN, Portland, Maine, and WFLI, Philadelphia. Engineering surveys showed that to put the primary lobe over Springfield, the transmitter site had to be in West Holyoke.

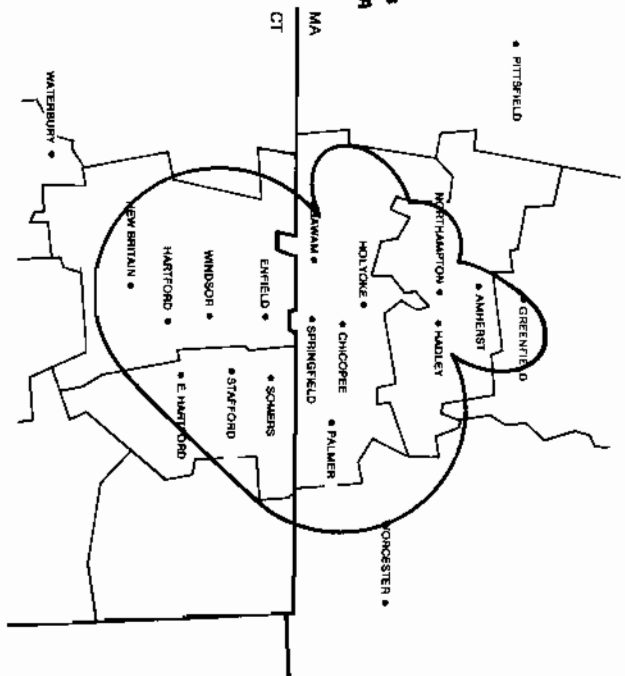
A 90 acre site was purchased, and three guyed 248 foot high towers, in a triangle, went up.

In 1948, WHYNY - FM signed on the air, with 50,000 watts power, from a transmitter high atop Mt. Tom, a high, rocky hill in Holyoke. 92.1 began broadcasting easy listening music, a format which lasted into the early 1980's. In the early 1950's, WHYNY, faced by increasing pressure from the fledgling medium of television, took two steps to meet this challenge. WHYNY began its own television station on Channel 40. Additionally, the station adopted a middle of the road music format and increased local news coverage. The Channel 40 transmitter joined that of WHYNY-FM atop Mt. Tom.

In 1957, WHYNY - AM, FM and TV moved into a spacious new building on Liberty Street, adjacent to Springfield's downtown area.

Enter program director Zack Land, charged with the mission of keeping WHYNY the top station in its market. He promptly dropped the sedate middle of the road format for top 40 rock and roll hosted by fast talking personality jocks, graphic, colorful newscasts, creating an air of immediacy, and non stop contests, remote newscasts, concerts, and record hops. Very quickly the "Big 56" and "Spin 560" shared the life in countless more area homes. DJ's Bob Allen, Dick Booth, Bud Stone (at night), Bud Williams, Jack Diamond, Chuck Adams, and Ken Griffin pumped out the "WHYNY Big 56 Hits". Anos B. Moses was the station's rapid fire screamer. These DJ's brought WHYNY to the top of the ratings....a position which it has not relinquished since! WHYNY programming overwhelmed all other area stations, except the "Big D", WDRC-1360, 25 miles down the river in Hartford, which competed with an almost identical format!

WHY-AM
560 KHz
5,000 Watts



"It's time for another WHY-AM scavenger hunt....be the first to arrive at our studios with a.....". Yes, WHY-AM had contests! Its scavenger hunts were legends. Listeners would be advised to find and bring in an object - such as a two way mirror - within 20 minutes, and legions of listeners would be cruising the area streets in quest of the desired item. A variation of the scavenger hunt was a mass search for a station - hid object, promoted by cines broadcast over the airwaves. Prizes such as records, concert tickets, and gift certificates awaited the successful finder. Shortly after a scavenger hunt was announced, crowds showed up at the Liberty Street studios brandishing the desired item. Unsuspecting property owners were unsuspectingly separated from their possessions - laundry, pumpkins, and other items, which made their way to WHY-AM, and were perhaps never missed by their owners.

"Be sure to get your new Big 56 Record Survey at.....". WHY-AM distributed its weekly "Big 56 Survey" of all of the latest hit records in record stores and other area businesses. Of course, the Big 56 Survey was the nucleus of the WHY-AM play list.

Many WHY-AM personalities went on to jobs in bigger markets. Doug Hawkes wound up at KDKA, Pittsburgh. Jackson Hall is now at 50,000 watt WNNZ-640, in nearby Westfield. Larry Cruger left WHY-AM to join WPRO's Salty Brine, in Providence, RI. When Salty retired after 52 years at WPRO, Larry replaced him as the morning personality there.

WHY-AM News was delivered with a flair unmatched by any other area station. News director Durham Caldwell guided WHY-AM's extensive local news coverage. Frequent bulletins advised of fires, crashes, holidays, floods, and other happenings. The Pioneer Valley Valley tuned to WHY-AM for its news.

WHY-AM record hops were area traditions for teens. Mountain Park high on Mt. Tom reverberated to rock music on Saturday nights, as WHY-AM dances and marathon broadcasts aired live from this amusement area. Happy Teenagers packed the park at these WHY-AM - sponsored adolescent rites of passage! Mountain Park, an area institution, closed about five years ago. WHY-AM, over the years, brought many

rock stars to live performances in the Springfield area.

In 1965, WHY-AM remained on the air, at full strength, throughout the notorious power blackout that turned the entire northeast into blackness. The station maintained its own generator at its transmitter site, and its 5000 watt signal helped carry listeners through the emergency - and was probably heard for the first time by some DX'ers, as most eastern stations went silent. WHY-AM was the site for another news story, in 1990, as a single engine plane froze near the transmitter site. The pilot skillfully brought the plane to a stop between two of the towers, avoiding all of the guy wires. No injuries occurred - the only casualty was a crumpled front landing gear. WHY-AM also broke to the world news of the area plane crash that injured state senator Ted Kennedy.

In 1980, the DeRose Family sold its broadcasting empire to the Guy Gannett Publishing Company, headquartered in Maine. The new owners moved the radio operation across town to the 5th floor of 1311 Main Street. This building became the first downtown structure to be refurbished in Springfield's ambitious center city restoration. Today, five studios, the AM and FM control rooms, a very active news room, and offices cover the top floor of the building. WHY-AM, in fact, was the rehabilitated building's first tenant.

In the early 1980's, WHY-AM dropped its easy listening music for a soft hits format. This programming evolved to Top 40 in 1985, and, in 1987, a Full adult contemporary format entertained WHY-AM-FM listeners.

WHY-AM changed hands twice in the 1980's. Robbins and Reese Advertising bought it in 1985, and in 1987, Milk Schwartz took ownership. Channel 40 remained with Guy Gannett, and today serves the Pioneer Valley as WGBB - For Guy Gannett Broadcasting. At the AM transmitter site, the signal is fed to the antenna system by a stabe of the art Collins Power Rock Transmitter.

On December 10, 1993, WHY-AM and FM was purchased by Radio Equity Partners, owners of several other stations, including the very successful WICC-600 and WEEB-107.9 combo in Bridgeport, CT.

WHY-AM presently airs a full service news, sports, and talk format - a format which has kept WHY-AM atop the Springfield Arbitrons. Weekday mornings begin with Dan Williams and Fred Kling hosting a five hour news and information block, augmented by ABC News, Accu-weather, Sky Way Patrol Traffic, and conversation on local issues. At 10:00 local talkmaster Gary Scott takes over the WHY-AM microphone, followed by Dr. Dean Edell's medical advice. At 11:30 Paul Harvey is heard, followed by the WHY-AM midday report.

From noon to 3:00pm, Rush Limbaugh rules the WHY-AM air waves. Local talk returns at 3:00pm with Dan Yorke, and Scott Coan's "Talking Sports" airs weekday nights at 6:00pm. ABC Talknet and TNN talk carry WHY-AM through the night. WHY-AM's local news includes eight minute summaries every half hour during drive times. WHY-AM also carries Boston Bruins Hockey, Celtics Basketball, Red Sox Baseball, Patriots Football, and University of Massachusetts - Amherst Campus sports.

On weekends, a mix of adult contemporary and oldies adds to the sports carried. This well developed local programming mix continues to keep WHY-AM as the news and information leader in Central Massachusetts, and at the top of its market, a position which its understanding of and timely responsiveness to its listeners' needs has earned it.

The editor wishes to thank WHY-AM Program Director Bill Hess and Chief Engineer Ken Jones for their help in the preparation of this profile of their station.

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Mr. John G. Tweats
 Box 105
 Oshkosh, Wisc.
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Date of broadcast: 8-28-74
 Broadcast dedicated to: **WARRIOR**
 — 1400-1420 kHz from 1400-1420 kHz from Radio Station C. M. C. B.
 — 1400-1420 kHz from 1400-1420 kHz from Radio Station C. M. C. B.
 — 1400-1420 kHz from 1400-1420 kHz from Radio Station C. M. C. B.
 — 1400-1420 kHz from 1400-1420 kHz from Radio Station C. M. C. B.

Cuba at time of broadcast: 8-28-74
 QRP CHAIN

Dear friend of the air:
 Happy Joe-Suaritos Radio Chain has been honored with your report of broadcast on per. KZ1400-1420 kHz. In accordance with the rules of your information, I am pleased to inform you that your report has been received and that your information has been forwarded to the appropriate authorities. We certainly enjoyed reading your report and we count on us at all times for anything pertaining to radio in Cuba. We appreciate another broadcast which will be a part of the chain. Your name should be on the report to Happy Joe-Suaritos Radio Chain, General Building 500, Havana, Cuba.

Should you ever come to Havana, or friends of yours, we would appreciate your visit and will do all possible to make your stay a pleasant one. By pleasing you, we please ourselves.

Thanking you for your courtesy and trusting we will have the pleasure of again hearing from you, we remain,
 Sincerely yours,
HAPPY JOE-SUARITOS-RADIO CHAIN,
 General Building 500, Havana, Cuba.

* ALL COMPLICACIONES A USUARIOS NOS COMPETEMOS NOSOTROS

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Triple-synchronous broadcasting

By John Collinson

An old idea gets a new wrinkle.

The plains of eastern Kansas and extreme western Missouri recently became the home of a new synchronous transmitter arrangement. There is nothing new about synchronous transmitters, but this particular test has some unique features. KNNH, Kansas City, KS, is the flagship. The news/talk station operates on 1,340kHz at 1kW day and night. Approximately 125 miles south is Pittsburg, KS, where KP1N is also on 1,340kHz at 1kW fulltime. Both stations are non-directional. A new synchronous transmitter has been located approximately halfway between the two, near Amoret, MO, just over the state line. (See Figure 1.)

Several stations use a main site and one or more synchronous sites at lower power. What's different about this application is its use of two existing, independently licensed co-channel stations with a single synchronous site linking them. Authorized by the FCC as experimental, the Amoret transmitter operates at a maximum of 200W.

Most synchronous sites are fed by STLs or phone lines, requiring adjustable audio delays to fine-tune the audio timing in the interference zones where the signals overlap. KNNH's program audio is fed from Kansas City by a dedicated 56kbit/s DDS stereo line to Topeka, KS, where it's uplinked on an analog SCPC satellite channel

Dealing with overlap zones

Because AM detectors don't exhibit capture effect like FM, any synchronous AM arrangement creates an interference or "mush" zone where the signals overlap. The area where the 0.5mV/m contours overlap is considered to be the interference zone. In this case, those contours overlap by several miles. Ideally, the individual transmitter powers are adjusted so that those interference zones fall in areas where little or no substantive coverage is desired. As previously established and licensed stations, KNNH and KP1N must keep their powers unchanged, leaving the new Amoret site as the only adjustable element.

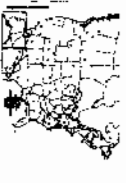
Any synchronous AM arrangement creates an interference or "mush" zone where the signals overlap.

It quickly became evident that adjusting the carrier frequencies of the two main sites while leaving the synchronous site as the reference was the most effective method of synchronization. Experiments from previous synchronous AM experiments showed that actual phase-locking of the sites is undesirable because of creation of fixed nulls.

FCC authorization requires the transmitters to be within 1Hz of each other, which translates to six drift cycles per minute. In practice, this drift rate actually produces a nearly undetectable signal in the mush zones; however, Tests have shown that frequency stability is vastly more critical to listenability in those zones than the relative powers of the main and synchronous sites. The sites in this

BE Radio - via Jerry Starr

The plains of eastern Kansas and extreme western Missouri recently became the home of a new synchronous transmitter arrangement. There is nothing new about synchronous transmitters, but this particular test has some unique features.



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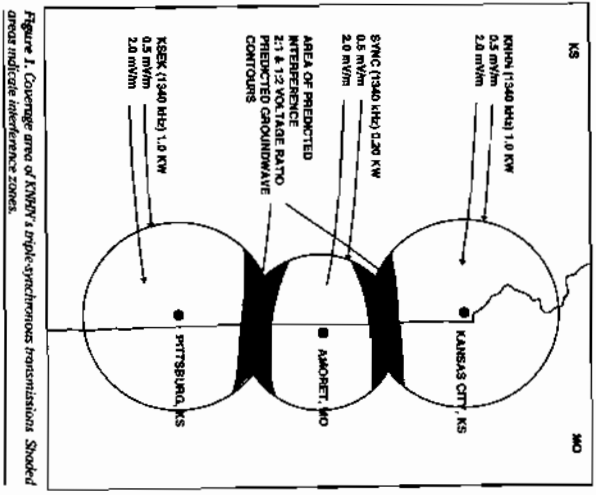


Figure 1. Coverage area of KMHY's triple-synchronous transmissions. Shaded areas indicate interference zones.

Market Impact

The original impetus for the project was a quest to improve KMHY's coverage in the southern parts of the Kansas City area, especially at night. Because KPHN, Pittsburg (then KSEK), was the nearest co-channel station, it was the primary obstacle to any coverage improvement to the south. The FCC agreed to the triple-synch arrangement (including the new Amoret site) if KMHY's owners purchased KSEK.

KPHN has a separate sales staff and could break away from the satellite feed for local breaks with Pittsburg area advertisers. If desired, although this is not anticipated. The synchronous site in Amoret is treated like an FM translator — it is permitted only to follow the program for radio broadcasting.

Dear *Mike*

Enclosed is your official WILLY & BILLY secret de-coder. Your secret number is 2019.

To activate your WILLY & BILLY secret de-coder place the WILLY & BILLY secret de-coder on your home radio, have someone take a picture of you and your home radio, and then send the picture to KTRB.

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Sincerely,
Louie Yamaguchi
LOUIE YAMAGUCHI



test have achieved one drift cycle every 90 to 120 seconds.

The transmitters use onboard, precision (oven-style) oscillators specified to be within 10⁻⁷ per day (1 part per billion error in 24 hours). Robidium standard oscillators would have been even more stable, but the limiting factor with the current oscillators is ultimately not a function of their stability but the difficulty in the adjustment. The Pittsburg and Amoret transmitters are vintage tube models, which also required some creative modifications to interface the precision oscillators into their RF driver stages.

The FCC has shown interest in the experiment, indicating that it hasn't written off the AM band yet.

Every six months the FCC requires a report on frequency stability of the sites. Documentation of the frequency stability is provided by a field-strength meter located in the interference zones, which shows peaks and nulls in signal strength as the carriers add and cancel. A chart recorder fed by the field-strength meter documents the beat frequency rate. For routine checks, the field-strength meter fluctuation gives a good indication of the beat rate.

-via Mike Santburn

Radio Roundup

News of the radio industry, of interest to DX'ers

Greetings all ... With all the programming talk about the garbage mouthed shock jocks that now frequent the airwaves, I thought that this quote from Charles Kelley, the FCC's Mass Media Enforcement Chief to be enlightening. "If you can't understand the definition of indecency, maybe you're in the wrong line (of work). The only people that can't understand what's indecent are the broadcasters who broadcast indecency." ... Don't invite Rush Limbaugh to the same party with Sally Jessy Raphael. Sally did the introduction for Rush at a recent awards ceremony and he was miffed when Sally changed some of the prepared introductory text ... WIP, the all-sports station in the City of Brotherly Love, has been sold to Infinity Broadcasting ... The CBS Radio Network has hooked up with cable's Courtroom Television Network to provide audio feeds for their affiliates ... Former WNOR, in Norfolk ... John Rivers, not to be confused with Johnny, is now doing an afternoon gig on WGNF in Daytona Beach ... Doug McElwein, formerly of WHAS, has moved on to an afternoon drive slot of KMOX, in St. Louis ... KCMO has dropped its nightly 9-11 pm sex talk show in favor of one hour each of Chuck Harder's For The People Show, followed by Morton Downey, Jr ... The Boston Red Sox will continue to have WRKO as its flagship for another three years, following a recent contract signing ... WTOG has switched from Unistar Gold satellite feeds to become a CNN Radio affiliate ... Former NY zookeeper Gary Bryan has landed on his feet at KPBC/AM-FM, in San Francisco, doing the morning drive slot ... A Queen City mail carrier Michael Wong, has been sentenced to two years probation and fined 500 dollars for stealing WNNK Prize Catalogs. The postal worker won a total \$7,000 prior to being nabbed by United States Postal Inspectors. The station personnel began to question why this individual's name was popping up so often during this promotion ... WLS overnight listeners from the '70's era, may now hear John Landecker on the airwaves again. He has returned to the Windy City, doing morning wake-up chores on WJMK-FM ... According to the M-Street Journal, there are now more stations carrying a Country format than any other. Number two on the list in Adult Contemporary followed by news/talk/sports in the 3rd position.

Pete Kemp (KZ1Z)
P. O. Box 73
Bethel, CT 06801-0073

Working our way down the list we find, in order, Religious, Oldies and Top 40 ... KABL, in San Francisco, has picked up Unistar's AM Only format ... WNNK, Harrisburg has changed its format and calls. From henceforth the station will be known as WTCY with an Urban Contemporary Touch format ... Trivia Note: On March 1, 1962, New York radio station WJMG reverted back to its original call letters, WHN. The station later became WFAN and is currently WEVD ... Veteran DJ George Woods has moved from WHAT to WPCK, and the oldies, in Philadelphia ...



291 Interstate 64 Blvd. Parkville, MO. Wayne Street, VA 23060

If you ever resided near our nation's capitol, and were a jazz listener, then you will be saddened to learn of the passing of 48-year veteran jazz host Flex Grant, at the age of 75. He had been with WMAL, WWDC, WRC and most recently at WDCU ... The highly touted AMAX standards are being softened a bit to exclude certain specifications from DC-powered radios and portables. Thus the GE Super Radio III would now meet the AMAX standards. So far the AMAX push has been about nil and one would have to search high and low for any consumer who was even aware of it ... "Inside Politics", with Bruce DuMont, which has aired in the Chicago area for the last 13 years, is now being made available for syndication ... The Talk America Radio Network has added two new hosts. Dr. Gabe Mirkin, a Baltimore physician and Earl Jack, a Black Harvard educated lawyer. Merkin's show will air daily from 6-7 pm and Jackson from 8-10 am ET ...

... The ABC Network is currently in exploratory talks with Disney Productions to launch a new kids programming network for AM stations ... Sean Hannity is the new mid-morning personality on WGST in Atlanta. The former slot holder, Neil Boortz who left for greener pastures at mighty WSB ... Freddy Mertz has joined KLIJ in Dallas in the mid-day time frame ... In Beaumont, Texas Gary Lee Love has pulled up stakes to move across town from KAYD to KYKR ... Ed Tyll, the Allnight person, on the Windy City's WLUP is

out of a job with all of the on air changes they are making ... KVEI, Austin, Texas, has a news sports-talk show in the 5 to 7 slot weekdays. Sports Day will be hosted by Jeff Ward ... Former KLOS DJ Damien has signed on for overnight chores on Unistar's Adult Rock and Roll Network ... KIKK Houston's Barry Michael has signed on as ABC/SMN's Hot AC morning personality ... Some Urban stations are beginning to drop Gangster Rap from their play lists ... The Armed Forces Radio Network has finally agreed to carry a one hour version of Rush Limbaugh on their network ... The Voice of America is selling its 100,000 watt relay station complex in Belize. The 240 acre site called Point Orange will go off line by the end of March ... Amy Warner is now doing overnights on WTPA in Harrisburg ... "In Focus" hosted by David Kelly and Ray Newman has begun on the Sun Radio Network, Sundays 3-4 pm (ET.) Commencing February 7, Sun will add Ed Bertlinger's Press Box in the 2-3 pm (ET) weekday slot ... Trivia Addicts take Note: WLS began its Top 40 Format on May 2, 1960 ... CFRB-1010 has launched a Daily Fax Newspaper for its listeners and key people in the media ... The Youth Network has had a name change to the 12-24 Radio Network ...

After years of evaluation, court suits and foot dragging, the FCC has finally announced that C-QUAM is the standard for AM Stereo ... The Radio Advertising Bureau (RAB) has announced that radio advertising revenues for the third quarter of 93 were up over 7 percent over the third quarter of 1992 ... The Top Five Amers in the latest St. Louis ratings are KMOX-1120, WRTN-1430, KXOK-630, KATZ-1600 and WIBV-1260...Speaking of WBV, they're now carrying the G. Gordon Liddy show in the St. Louis area...KSD-550 has signed on with the USA Radio Network for overnight talk, the third area station to do so (WBGZ-1570 and WGNJ-920 are the others). Jim White celebrates 25 years with KMOX-1120 in 1994, he's a licensed Ham as

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W0NJB...KFUO-850/99.1 has purchased KSLH-91.5, with the plan for 91.5 to simulcast the 850 spot, and go 24 hours with KFUO-850's Lutheran-oriented Christian format (the AM still has to sign off at KOA LSS). KFUO will celebrate it's 70th Anniversary in 1994, having gone on the air in 1924 sharing time with KSD on 550, then moving to \$80 in 1948. The Lutheran Church-Missouri Synod will own the two oldest FM stations in the market, KFUO-FM has been on since 1948, KSLH first signed on in 1950. KFN5-590 is back in Stereo, after two weeks in Mono. The deal is that KSD-550, KFN5-590 and WESL-1490 set aside a week or two per year for maintenance of their C-QUAM excimers (KSD and KFN5 set aside their time in December while WESL sets aside maintenance time in June or July), so for a week or two a year, these stations are in Mono. The New Life Evangelistic Center, who owns TV stations in St. Louis and Columbia/Jefferson City and an FM station in Eureka Springs, AR, has purchased KMRR-1510 Marshfield, MO, and has gone to a Religious format. The St. Louis-based religious group, headed by Rev. Larry Rice, is known for using it's broadcast facilities as training grounds for once-homeless people to learn a host of broadcast skills. This courtesy of the New Life Zoa Free Paper ... Congratulations to all of those AM stations who have performed valuable public service support with the latest weather related problems all across the country. WLAD-800 even has a new spot featuring morning man Pete Summers inviting listeners who have tuned in for all the snow/cold weather cancellations to stay tuned to the station in the future.

If you would like to contribute to this column, I may be reached at the address above, via CompuServe 72376.2557, Prodigy PFKVRSZD, InterNet PeterKZIZ@AOL.COM, the FIDO system in the Shortwave, Ham or Broadcasting echo areas or amateur radio packet, KZIZ @ KIUOL.CT. So much for now.

LowE HF225 Europa *** review by Steve White in MWV 11-93

The HF225 Europa receiver, manufactured by Lowe Electronics, is the upgraded and more expensive version of the basic HF225. The basic 225 has had considerable exposure (6 & review in *Radio Communications*, November, 1989) but news about the Europa has mainly travelled by word of mouth. The Europa evolved as a result of a request from the DX Club of Finland to Lowe to produce a modified HF225 to their specification. Although the custom modifications were quite costly, the new HF225 "Finlandia" version not only satisfied the Club members, but also brought the "Finlandia" to the front in the European DX Council "Best DX Receiver of the Year" contest against the JRC NRD-535 and the Icom R-72E. The productionised "Finlandia" became the Europa. Incidentally the Europa is the latest in an evolutionary chain that started with the popular HF125. The visual appearance and the internal circuit architecture of the HF125, the HF225 and the Europa confirm their familial connection. I recently acquired the Europa and have been assessing it operationally to see how it behaves. I have been using it alongside my Collins R390A/URR and modified Sony ICF2001D.

Plus Points:

Selectivity

Relative to the basic 225 the IF ceramic filters have been changed to higher specification units and different bandwidths more suited to real DX-ing. Both receivers cascade filters through the IF chain to get low noise and excellent selectivity, but the Europa has reduced the stray signal leakage around the filters by using low capacitance switching diodes, high quality magnetically shielded filter select chokes and additional chip decoupling capacitors. The critical 2.2MHz filter is an 11 element Murata CFM455K14.

Basic 225	2.2MHz (2.2+4+10)	4MHz (7+4+10)	10MHz (9+3+10)	overall bandwidth cascaded filters
Europa	2.2MHz (2.2+4+7)	3.5MHz (3.3+4+7)	4.5MHz (7+4+7)	overall bandwidth cascaded filters
				x = bypassed filter

In use, these filters really "cut the mustard", however I'd like to see the lab measurements of the Europa's dynamic selectivity to see if reciprocal mixing is compromising the filter performance.

Audio

Very good low distortion audio that one can leave playing through the loudspeaker for entertainment when not DX-ing. The tone control gives a wide latitude in audio response which can be quite useful.

Dynamic range

In operation, I could not detect intermodulation products from big night-time off air signals even when running broadband beverage antennas directly into the Europa's front-end. However during quiet daylight hours I could just detect 2nd & 3rd order IM products from my two strongest MW signals.

Sensitivity

Usually not a big issue these days unless a SW receiver has been made too sensitive and overloads on strong signals but that is not the case here. However, the significant point is that good sensitivity (sub microvolt) is maintained all the way from 60kHz to 30MHz which is just what the MW DXer needs. Many receivers (e.g. Sony 2001D or Kenwood FRG-100) which have limited dynamic range delicately attenuate signals below 2MHz directly at the aerial input.

Minus Points:

Key-pad induced buzz

If the volume control is turned down to zero and any key on the keypad is depressed a noticeable buzz appears from the internal speaker. If an external speaker or headphones are used this problem doesn't exist. A simple internal modification should eliminate this problem.

Software bug

There is a minor but repeatable bug associated with the keypad frequency selection and front panel mode selection software. Normally if an incomplete frequency is keyed in nothing happens and the receiver continues operating as it has been previously set up. However, if a partial frequency is left keyed in and then a different receiver mode is selected this fails to work properly. As an example, if the receiver is tuned in the AMS mode to any station and then any partial frequency keyed in (e.g. digits 6 & 3 not followed by a #) it continues to receive the first signal correctly. Now if the mode switch is turned to USB or LSB from AMS this fails to work properly, the receiver behaves as if it fails to shift the 1.4kHz SSB offset. To make the receiver behave properly now, the * key needs to be pressed, in so doing clearing the entered partial frequency. This example started with the receiver in the AMS mode, but similar (but not identical) behaviour is observed starting in other modes. I don't know if this bug is apparent in the basic 225 but I believe that the Europa has slightly different control software which could behave differently.

Frequency Offset

The Europa is an excellent receiver for Exalted Carrier Selectable Sideband (ECCSS) reception of AM signals in which the AM signal is received using LSB or USB to choose an individual sideband. However, if a precise frequency is keyed into the keypad whilst listening in ECCSS mode slight further adjustment of the tuning knob is needed (~50Hz) to get the receiver's internal carrier injection oscillator absolutely spot on with the received carrier. It may be possible to trim this slight offset by adjustment within the receiver.

Display

The HF225 (& Europa) only displays frequencies to the nearest kHz despite tuning in 8Hz steps. This makes accurate frequency measurement of received signals tricky but otherwise is not a great problem. Nevertheless, the memories store the exact frequency including the undisplayed digits. The 5-number is reasonable accurate but a nightmare to read, especially from a distance!

Memory & Control

The Europa has 30 memories which only store frequency (not mode) but they are no where as user friendly as on the Sony 2001D. For instance only 11 of the 30 memories can be directly accessed from the keypad! The key sequence for memories reminds me of the early digital wrist-watches or calculators where multiple shift key operations were used to reduce the number of physical keys needed. The Europa has a toggle five buttons on its front panel. One function I really miss is the ability to manually or automatically scan broadcast channels. I like to be able to step through the MW band in 9 or 10kHz steps using a single key stroke to move channel rather than keying in a full frequency or manually turning with the knob. The same is true on SW where a 5kHz step would be very useful. The Europa does have up and down step buttons but the step size is currently fixed at +1MHz or -1MHz; this would be much more valuable if the step size was user selectable.

However there is one saving grace in this area and that is the remote keypad. It should not be too difficult to plug a computer (with suitable interface) directly into the rear panel jack normally used by the keypad. With the right software the computer could simulate the normal keypad action as well as the stepping function described above. Naturally the computer could drive the receiver for remote/unattended monitoring. (Can anyone figure out how to get a Macintosh or a PC to do this?)

Manual

The Europa only comes with the manual for the basic 225, which in itself is a very useful and comprehensive booklet. Unfortunately it does not reveal the changes and improvements in the Europa. A shame. Nor does it include circuit details of the keypad or AMS/IFM detector module.

Finally

The above points are those observed as a user indulging in weak signal MW DX-ing and may not immediately be noticed by every owner. The negative points are worth noting but on balance they do not detract from the excellent value for money of the Europa.

Now that I am a proud owner of a HF225 Europa I expect I will start to look for ways to improve its already good performance. I would also like to hear from other 225 owners who have made changes or improvements to their rigs. If you have any ideas or tips I'd like to hear from you.

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933 NUMBER BROADCASTING, INC.
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WJIB
 740



17 February 1994

RESULTS OF OUR DX TESTS (JAN 14 & 21 1994)
 VERIFIED RECEPTION REPORTS

Joe Kureth - Uniontown MARYLAND
 Michael Camillo - Ridgewood NEW YORK
 Steve Francis - Alcoa TENNESSEE
 Kermit Gearty - Walnutport PENNSYLVANIA
 James Wallace - Charleston WEST VIRGINIA
 Mike Brooker - Toronto ONTARIO
 Elliot Straus - Toms River NEW JERSEY
 David Schmidt - New Castle DELAWARE
 Jeff Letze - Charlottesville VIRGINIA
 Karl Zuk - Croton-On-Hudson NEW YORK
 Charles Washburn - Robbinston MAINE
 Jerry Coatsworth - Merlin ONTARIO
 Mike Hardester - Jacksonville NORTE CAROLINA
 Bob Harrison - Union NEW JERSEY
 Robert Tlara - Hendersonville NORTH CAROLINA
 Michael Manning - Wilmington DELAWARE
 Pat Libretti - New Paltz NEW YORK
 Michael Prindle - New Suffolk NEW YORK
 Alan Merriman - Annandale VIRGINIA
 William Wylie - Franklin MASSACHUSETTS
 Dick Peters - Norfolk MASSACHUSETTS
 John Kohinda - Marblehead OHIO
 Eric Bueneam - Hazelwood MISSOURI
 Hank Holbrook - Dunkirk MARYLAND
 Harley DeLaurere - Bendricks WEST VIRGINIA
 Andrew Rugg - Cornwall ONTARIO
 Tom Jasinski - Shorewood ILLINOIS
 Jack Borner - Lancaster PENNSYLVANIA
 Howard Kemp - Lacomba NEW HAMPSHIRE

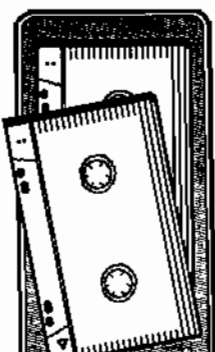
Thanks everyone and 73's.....

Bob Bittner - Owner WJIB

The Answer Man
 Got a question about radio?
 Send it to NRC's Answer Man:
 Russ Edmunds - 753 Valley
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 2052. No question is a dumb
 question and Russ will answer
 all, from basic to highly
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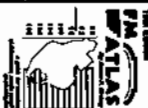
You can help out with station tests. Here's how: Send Jeff Tynan - 10359 Severance Dr. - Parker, CO 80134-9104 52c in stamps per station, and the NRC CRC will print and mail an effective test request letter for you. Money and stamp donations are appreciated, but Be sure to specify station and time. Increase your verities and help other NRCers at the same time - join the verification game!



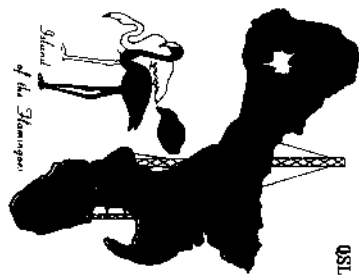
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 100 tapes, great value \$4.00 each, just \$9.00 per 10. \$12.00 per 25, or \$42.00 per 50. On 12 tapes, perfect for archivers. 10 for \$7.50. Order from NRC Publications - Box 165 - Mangrove, NY 10851. NY orders, please add sales tax.

Bruce Ewing's FM Atlas - 75th edition

The most famous guide which has served FM DXers for over 20 years is available from NRC Publications at the special price of \$16.00. NY orders, please add sales tax.



TRANS WORLD RADIO
OSL



800 KHZ AM
Effective July 1983

English
Language
Listening
Guide

Table with columns for Day (MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY, SATURDAY, SUNDAY) and Time (7:00, 7:30, 8:00, 8:30, 9:00, 9:30, 10:00, 10:30, 11:00, 11:30). Rows list programs like Morning Sounds, News, and various music and educational segments.

Trans World Radio (TWR) was founded in 1923 by Dr. Paul Freed to proclaim the Gospel of Jesus Christ to the people of Spain. The political changes of the 40s and 50s had tried to shut God out of many nations created still more audiences, and radio has been a reliable way to reach them with the Gospel message. The worldwide impact of TWR through the years has been dramatic using shortwave (SW) and medium wave (AM) signals and stations in Buenos Aires, Cyprus, Guam, Monaco, St. Lucia, Switzerland, and Uruguay.

The political changes of the 80s have created new and unexpected opportunities for expansion and TWR began broadcasting from Alabama, using Radio Tirana in 1992. This greatly increases our coverage into Europe and brings the total number of stations in the global network to eight.

TWR began broadcasting from Panama in 1994 with Latin America as the primary target region. Recently a new strategy for Latin America was developed that calls for the increase of AM programming during daylight hours, the establishment of a satellite network in central and the dropping of SW transmissions. Therefore, after 28 years of equinoctial daily transmissions, all SW broadcasts from Bonaire will end as of midnight, June 30, 1993. In the fall of 1993 TWR will begin distributing programs to local stations within Latin America from Bonaire via satellite.

This will be the last conference call to be issued by TWR Bonaire. The SW reports. It is a special call for the last four days of SW broadcasts (June 27-30, 1993) and a reproduction of the first OSL issued in 1964. Future AM broadcasts will be confirmed with a special QSL for 800 KHz.

We are grateful for the help you have been in reporting your listening through the years. You have assisted us in improving our signal. We have also appreciated the support many of you have offered from time to time. Thank you!

Missings
of the Members

These are local per Miss; submit double-spaced articles. Thoughts from NRC members... the opinions expressed in this column are those of the individual writer and do not necessarily reflect those of the editors, publishers, or the National Radio Club, Inc.

Dave Schmidt
P. O. Box 11502
Wilmington, DE 19850-1502

RAY ARRUDA - 47 BORT STREET - ACTON, MA 02743-1939

Greetings from very cold & snowy New England. Some thoughts on verifying stations... keep notes or possibly a tape of your original report. It may take months, even years, but eventually, someone at the station will answer. Prepared cards seem to work well with many DXers but I prefer the stations letterhead on the verie. Keep checking the VERIE SIGNERS column and tips from members in DXW for current signers at stations that have not verified reports in the past. Neatness and return postage or a self addressed stamped envelope are important also. Many stations don't seem to answer on the first try, unfortunately, that's when a follow up letter and/or phone call may help. Some DXers send a cassette tape of the reception which is helpful. With all the NRSers and increased interference, stations on tight budgets, etc., if I can verify 20 new stations in a calendar year, I'm satisfied. Recent Veries: WYNI-930-TEST, WADY-940-TEST, KATY-770-TEST, W7SM-1110-TEST, WYNY-1160 & WNAS-1460-TEST. 73

JOHN R. MALICKY - 995 SHADYGREST ROAD - PITTSBURGH, PA 15216

Hello all! The new year started out very well DX wise with a verie from KATY-770 on 1/18. This is my 1st verie heard & verified which included a letter, a "cattle" coverage map & key chain. The only 2 DX TESTS heard in 194 were KMTZ-1270 & WYNI-930, both just barely received. Sorry to hear of the passing of NRC'er Currie Chadwick on 12/15, an amusing fellow whose voice will live on with the DX Audio Service tapes made from Omaha 97. The 3MS, WMSW-970 History of Pittsburgh Radio and allchecke project is moving along and may be finished in early March and aired at the end of April, more as it happens. Thanks to PAUL MOUERT for his contribution and the offer to help from GEORGE GREENE & DXAS member, RON CLARK. 2 reports over the past 3 months to DXDX & DAVE BRUNN went unprinted, only "The Shadow (& USPS) Knows". Finally, what a nice winter! 1st week of JAN, we had 20 inches of snow, 2 inch wet, a -22 low (the coldest day ever in the burgh) & this 2nd week of FEB, a 2 inch ice storm. 3 good reasons to stay inside & DX!

BRUCE REYNOLDS - 917 GOODWIN AVENUE - SAN JOSE, CA 95128

I like our new home with 1 exception, as a DX location it seems to be inferior to the old one in every way. I haven't put in too much time at the dial, but the locals & semi-locals seem harder to null, and worse yet, the noise level is much higher. The last catch at my old location was the KURL-730-TEST, the only addition here so far has been KOGO-600, with the call change first noted on 1/30. They were still simulcasting their FM, however, so the format was unchanged. Like KOGO, KOKR-700 has gone back to its old call (KRSR) and has switched from a country to a classical format, still parallel to 2 FM's. No sign of the new KRSJ-1370 yet. There has been a decline in the CA country stations on the AM band in the last year or so with the detectors including KABC-570 (nostalgia), KFRB-660 (Spanish), KNBA-1190 (oldies), KRRL-1280 (sports talk), KVOY-1340 (nostalgia), KEEN-1370 (nostalgia forthcoming) & KRCB-1400 (Xtldr). A weekend drive down to LA underscored the sad state of smaller market AM radio. Of the English language stations along 101 between Salinas & Santa Barbara, only KRRC-1490 had locally originated music programming and it was a rather unimaginative mix of back-to-back country songs & back-to-back local spots. Most of the stations feature satellite talkers of various stripes, plus CNN Headline News on KVEC-920 & "Radio Oz" on KIID-1400. What a pleasant change to tune in KRRC-940's "Real Country" with a live DJ actually taking requests on a Sunday afternoon! Finally, the Oakland A's have just announced a switch to their 3rd different network flagship station in 3 years: KRRC-610. Among the reason cited for the switch are superior signal coverage and KRMW-910's plans to go to a (Qgnl) satellite format. By the way, when KRRC has had to bump the Sharks for Stanford basketball, the Sharks have been on KRRI-1550 & KLIW-1590.

KEN ONYSCHUK - 3623 UNION AVENUE #1 - STURGEVILLE, IL 60475

Hello again! I've tried to organize some notes to make this an interesting MSE. In late 92/early 93, I didn't keep good DX records while at my momentary separation. But now here, post divorce, I've taken some time and can now report with reasonable accuracy. My log total is now 1015, with #1000 (not positive but probably) WTKR-1060. I heard it late evening 12/92 interfering with KYW-93 stuff: KROQ-860 1/2 4:35PM with gospel, while staying at my brothers home in Chicago Heights. 1/31 WYNS-750 8:25PM causing problems with WSB while trying to listen to a wrestling talk show. 2/8 WKIX-1230 with ID at 2AM during WOB's silent period. 2/10 WYNS-1540 with ID at 8AM with semi-local WCSJ nullled. 2/20 KRLI-1100 with lengthy instrumental music 7:30-8AM and ID. 2/27 WKRC-800 with ID at 8 AM over CILM/KXIC, KRRI-800 with ID at 12 noon. 12/4 KRGB-1250 with brief ID at 11PM, per tip in DX NEWS, WTKR-1440 shocked to hear this one ID, in briefly at 11PM while trying for the WAKR TEST which wasn't heard. 12/11 a surprise MDUF-1120 in/

out with bluegrass music and local stuff with KMOX nullified. 4:07-4:15PM call sign-off. I was sick that day & DIXING kept me off my first! WKKA-1190 with weather and sign-off 4:29-4:30PM with WMOV power, a welcome station! KMTU-760 5:07-5:15PM with religious program on car radio driving home from work mixing with WR but able to copy TD at sign off. 12/20 WYUH-1260 with gospel 9:40-10PM over WNDP, trying to listen to Pacers basketball, listed as D1, what's the night power? And finally, 1/11 KCVV-760 with gospel over WR 5:10-5:15PM at home. So my frequency & state-by-state, etc. Log both agree to 1015 heard in 27% years. I'm satisfied & state-over 1000 AM stations. I'd still like to hear a few target stations I won't mention now but I'm pretty satisfied. My personal social life has picked up in the 18-se year and I'm happily working as a delivery driver for a printing company. While driving, I prefer classical music mornings, talk shows & oldies in the afternoon. Massit for awhile, Go Bulls!

BRUCE CONTI - 46 RIDGEFIELD DRIVE - MASHUA, NH 03062-1174

The DX season's been a good one so far, despite the lack of auroral conditions. However, the spectacular Trans-Atlantic DX earlier in the season has dissipated. MARK CONNELLY has logged stuff throughout the season, but my location, about 30 miles further inland, isn't favorable toward trans-Atlantic DX. My luck with DX TESTS has dropped off, too. For the 1st time this season, tests were tried for & not heard: WDMJ-1330 & WYAN-1260. All previous tests that I tried for were heard. Verles in from WMTV-1270 & WNAS-1480. The WMTV verle is a "you got us" certificate from (a)musling DAVE SCHMIDT. The WNAS engineer sent a nice personal letter, mentioning that he was glad to know WNAS could be heard in SE NH where his in-laws live, along with a coverage map & WNAS-FM keychain. A report just went out for the WYAN TEST, heard weakly. WOCG & KURL are DX TEST verle holders. CHRIS CUMBO's WNRG is also a holdout from the '93 convention! I usually don't do following reports, but may send a 2nd report to KHRJ-730. My first & only reception from WY. JIM RENNEM recently noted that WCAO "Heaven 600" doesn't seem to get reported in DXD often. I had to look back to 3/30/92, the last time I reported that station in DX NEWS. WCAO is somewhat of a regular here unless Cuna is dominating the frequency. I wonder why WCAO isn't reported by more DXers, though. (They put in a new antenna system a few years back and seemed to have really tightened the pattern so it goes S, it's a local in Easton, over 60 miles away day & nite-DMS) Is it because it's an uninteresting regular for other DXers, or just not heard by many? Locally, WRTV-1060 has gone back to the Spanish religious format, iding as Radio 'Vida Cristiana'. The Nashua '94 NRC convention plans are moving forward. JOHN BOWKER has been helping out with some promotional stuff & seminar scheduling, watch for Now & Then & Tower Tip teasers. Hopefully, MARK CONNELLY's work schedule will allow for more formal demos of phasing, with a couple of mini-bers available at the hotel. We'll be touring a couple of radio stations, so TONY FITZGERBERT can add some transmitter sites to his slide show. I'm going to try to have a "no junk" auction this year. Already, an almost mint condition portable DX receiver will be up for grabs, along with some NH radio souvenirs, and the usual array of hamperstickets and promo materials will be auctioned off, but no hand-me-down T shirts. DN-LESS RAY ARRUDA brings his yellow gloves from the '93 convention for hazardous waste disposal! Watch for convention pre-registration & hotel reservation info appearing soon in DX NEWS! 73

DAVE SCHMIDT - P O BOX 11502 - WILMINGTON, DE 19850

The weather really gave us a break this week, temp's back to real, a lot of melting and a week's worth of work! Semi-locally WYOS-930 was off for about 5 days (2/9-13) and WKDI-840 was down to 60 watts about the same time. For you FM people, WENJ-107.7 was down 2/13-18 while their line was replaced! A very concerned effort should be made, I feel, on the education of members on writing reception reports. A couple of the ones that recently arrived at WMTV were really bad, and should not have been sent! And no return postage was sent along! I thought it was a LONG STANDING RULE of this organization that return postage was to be sent along with ANY reports? No? Get your thoughts together on that, write us a MESSAGE (no books, please!) and we'll bring forth your ideas! BILL SULLIVAN, the CE at WNAS-1480, was very happy with the TEST results and trusts all are pleased with their response. That's it - 73

Team Effort ...

That's what makes the NRC so great. And all information, contributions, and editing for DX News, DX Audio Service, and all publications is done by unpaid volunteers as part of a team. Perhaps you have a little time to give to your club ... If so, please write to Ken Charleston, P. O. Box 164 - Manassett, NY 13661-0164, and let him know what talents and time you can offer to the club. Types are almost always needed, as are updates to the NRC AM Radio Log. Why not write to Ken today!

It may not be perfect ...

but the NRC Log 14th Edition is, simply, the best there is because of your contributions. Why not make the updates and 15th edition even better! Send all corrections and changes to Wayne Heinen - 4131 S. Andes Way - Aurora, CO 80013-3831. Thanksl

1994 National Radio Club Convention

September 2 - 5, Labor Day Weekend
Nashua-Manchester, NH

New Hampshire, The Granite State, welcomes the National Radio Club for its annual Labor Day weekend convention. The convention site is central to all that New England has to offer. The mountains, seacoast, and historic Boston are all within an hour's drive. South Nashua is a shopper's paradise with many malls and plazas. Shop tax-free; there's no sales tax in New Hampshire. Ham Radio Outlet is in nearby Salem, NH. Local tourist attractions include:

America's Stonehenge - Route 111, North Salem, NH;

Ancient astronomical stones, largest site of its kind in North America.

Greely Park - Concord St., Nashua;

Picnic grounds, concerts, community activities.

Monadnock State Park - Route 124, Jeffrey, NH;

Hiking trails to the 3165-ft summit, the world's second most-climbed mountain.

Old Sandown Railroad Museum - Route 121A, Sandown, NH;

On the Nat'l Register of Historic Places, featuring railroad memorabilia.

Park Monadnock Mountain Auto Road - Miller State Park, Route 101, Temple, NH;

A 360 degree panoramic view, see from Vermont to Boston on a clear day.

Rockingham Park & Mall - Route 28 at I-93, Salem, NH;

Major league thoroughbred racing, big purse sweepstakes, and more shopping.

Scheduled convention activities will include radio station tours, a group tour of the Antheuser-Busch brewery and Clydesdale hamlet, technical seminars, and of course, the annual banquet and auction. Don't forget to bring items to donate to the auction and support your NRC!

Convention Hotel/Reservations

The convention will be held at the Ramada Hotel at Merrimack. The hotel is located at Exit 11 of the F.E. Everett Turnpike, just north of downtown Nashua. The hotel features the Sporting Club restaurant and lounge for breakfast, lunch, and dinner, with room service available. For exercise, try the indoor swimming pool or take a quiet walk along the trails in the Merrimack Forest. The entire hotel is handicapped accessible.

A block of 50 rooms are set aside at special rates of \$45.00 single/double and \$85.00 triple/quadr, not including 8% tax. Rates and rooms are guaranteed available until August 26. The hotel is now accepting reservations at (800)922-3477 or (603)424-6181. Be sure to mention the National Radio Club convention for special rates.

Transportation

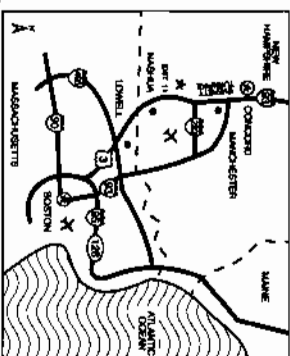
Air service is available from two convenient points - nearby Manchester Airport, and Boston's Logan Intl Airport, one hour's drive away via U.S. route 3. The hotel offers complimentary van service to and from Manchester Airport M-F 8am-10pm, given 48 hours notice. Several independent shuttle services operate to and from Manchester, Logan, and Boston's Amtrak train station. Make reservations directly with one of the following, or consult your travel agent.

- M and L Transportation (617)665-7791 Logan hourly service.
- Manuteman Airport Service (508)649-9829 Manchester, Logan, and Amtrak
- Hudson Bus Lines (603)883-4840 Logan Airport service

Individuals are responsible for their own room reservations and transportation and transportation arrangements. The hotel. The NRC will not be involved in room sharing and airport transportation arrangements.

Convention Registration

A registration fee of forty dollars (\$40.00) per person (\$16.00 children under 12), which includes the banquet, is payable in advance. Checks payable to the National Radio Club may be sent to NRC Convention, c/o Bruce Conti, 46 Ridgfield Drive, Nashua, NH 03062-1174 before August 26. Please register before August 26, to insure seating for the banquet. Specify whether you prefer chicken or beef. For further info, send a SASE with your specific inquiries to the same address. Hope to see you for the New Hampshire 1994 NRC Convention! 73s



Exit 11 of Everett Turnpike, between Manchester & Nashua, N.H.