



# DX NEWS

*the magazine of the  
National Radio Club*

— SINCE 1933 —

VOLUME 52

ISSUE 22

March 11, 1985

An Apology to John (Hot Tips) Rieger for not giving him credit on the WQPM test a few issues back. Speaking of John....WGNW-1370 All News Stn. is now off the air and For Sale....went off Wednesday Feb. 27th at Midnight.

April Fools Issue is quickly coming up. For those that wish to contribute to the famous once a year issue, where almost everything goes, your more than welcome to participate in it! Start dreaming up your items, and get them to us real soon! Its almost time for the issue to be printed!!!! Just 6 days away!!!

DXer's Directory is now available from Universal Shortwave Radio. Fred Osterman put alot of man-hours into this one!! The book contains just under 1000 DXers from all corners of this planet. The book is divided up into 5 sections. Listeners by Location, by Last Name, North American Clubs, Non-N.A. Clubs, and Listener Photos section. I see Neal Perdue made not only this section but the front cover!, along with others...like Guy Kudlenyer, even an Austin Kelly (yes, thats right paul!!) Anyway....the book sells for a mere US\$4.95 plus US\$1.05 postage and shipping. So...for those that sent in your form that we had in our magazine a while back...now is the time to get the book...send your monies to: Universal Shortwave Radio, 1280 Aida Drive, Reynoldsburg, OH 43068. (Fred..you did one heck of a good job on this project!...and thanks for the autograph)

And as we promised, the last two pages of the WLS Station Profile is included in this issue. Check it out on page 15. A technical article by Mark Connelly on Computer Aided Tuner designs starts on page 17.

NRC NIGHT PATTERN BOOK UPDATER 34 Maps, each contain new stns not shown on the current maps, can be inserted as a change page or you can redraw them onto your original book pages. Maps are same scale as set presently used. Patterns are drawn sharp and are as accurate as can be found anywhere!! US\$3.50 this price includes shipping !!! Order from the Publication Center. And please allow 4 to 6 weeks for delivery.

We'd like to mention that those asking for the "NRC Catalog", please, send along a 22 cent stamp....it helps us out greatly!!! Thanks for your cooperation.

Publishing Schedule for Volume 52: As a reminder there is only one issue left of our weeklies. Next issue starts the bi-monthlies. (The season is almost gone...sigh.) Below is the schedule for the next couple of issues:

<u>ISSUE</u>	<u>MASTHEAD DATE</u>	<u>PUB SESSION DATE</u>
23	March 18	March 10
* 24	April 1	March 17
25	April 15	April 7
26	May 6	April 28

#### LOOK INSIDE:

- |   |   |               |
|---|---|---------------|
| 2....AM Switch  | 3....DDXD                                 | 6....DDXD     |
| 9....IDXD   | 11....Kanadian Korner                     | 12....Top End |
| 15....Station Profile-WLS   | 17....Computer-Aided Antenna Tuner Design |               |
| 24....Your Name!! and NRC Addresses and other Facts about the NRC |   |               |

Don't Forget Listen to "AM Interlude with Wayne Heinen"...on HCJB's "DX Party Line with John Beck". Saturday nights at 0230 UTC (9:30 pm Eastern Time) on 6095 KHz.

**THE WORLD'S OLDEST AND LARGEST ALL MEDIUM-WAVE DX CLUB**



## AM SWITCH

Jerry Starr, c/o WHOT Radio, 401 N. Blaine Ave., Youngstown, OH 44505

### CALL LETTER CHANGES

Old call:	New call:	Old call:	New call:
930 *New IL Sandwich	WCDJ	1460 WPAF FL Defuniak Spgs.	WZEP
980 *New NY Cazenovia	WJIW	1470 WINH SC Georgetown	WVBX
1240 *New AZ Quartzsite	KYPB	1520 WAOA AL Opelika	WZMG
1320 WCOG NC Greensboro	WGLD	1560 *New WA Sumner	KPTJ
1380 WBBX NH Portsmouth	WAHV	1600 KASH OR Eugene	KEED
1450 KEED OR Eugene	KRXX		

### APPLICATIONS FOR NEW STATIONS

None

### GRANTS FOR NEW STATIONS

750 TX El Paso:	10000/1000 U2
1030 IL Vernon Hills:	5000 D1
1390 CA Fields Landing:	5000 D1

### APPLICATIONS FROM EXISTING FACILITIES

880 KKMC CA Gonzales:	10000/5000 U4
990 WHOO FL Orlando:	use old antenna as auxiliary antenna for CH powers
1090 KANN UT Ogden:	to 1120 kHz 10000/1000 U2 (separate night XR site)
1340 WEXL MI Royal Oak:	1000/1000 U1
1510 WINU IL Highland:	5000/250 U2 on 880 kHz (augments previous listing)
1570 WKBH WI Holmen:	5000 D3

### GRANTS TO EXISTING FACILITIES

800 WSMJ KY Cave City:	500 D1
1150 WQMR ME Skowhegan:	to 1160 kHz 10000/1000 U1 (initial decision)
1290 WDG8 IN New Albany:	changes in antenna system
1300 KLER ID Orofino:	5000/1000 U2
1340 KTOW OK Sand Springs:	1000/500 U1
Woub OH Athens:	1000/1000 U1
1400 WCYN KY Cynthiana:	1000/1000 U1
WONY NY Dansville:	1000/500 U5
1410 WELM NY Elmira:	night power to 1000
1490 KXLQ IA Indianola:	1000/1000 U1
KOKC OK Guthrie:	1000/500 U1
1570 WTAY IL Robinson:	changes in antenna system
WCLE TN Cleveland:	5000 D1

### OTHERNESS

1030 *App WI Milwaukee:	application for new station DISMISSED in the same action that granted the new Vernon Hills, IL station
1310 KXAK NM Corrales:	this four-year-old CP has never been built, it has now applied for sale to new owner, perhaps it still might appear
1470 WKCK PR Orocovis:	application for night power increase DISMISSED

73 and Good DX,

*Jerry Starr & Buffalo K. Foonman*

Jerry Starr & Buffalo K. Foonman

According to FCC, eight Florida AM stations have thus far asked for total of \$1.74 million in financial compensation (provided for in Radio Marti legislation) for improvements made to counter Cuban radio interference. Stations are WISWAM St. Petersburg, FL; WYOOAM Coral Gables, FL; WOOYAM West Palm Beach, FL; WKATAM Miami Beach, FL; WDBZAM Miami, FL; WGBAAM Miami, FL; WDDIAM Miami, FL; and WWSIAM South Miami, FL. Radio Marti legislation provided total of \$5 million for compensation.

**KLBB AM 14**

611 FRONTENAC PLACE, ST. PAUL, MN. 55104

### WIFX Fined \$6200 For Power, EBS Violations

WIFX-AM & FM/Jenkins, KY have been clobbered with a \$6200 fine by the FCC for violating three rules. Both stations failed to perform weekly EBS tests and neither had current equipment performance measurements available when FCC inspectors showed up. The FM was also found to be exceeding its authorized power tolerance.

Hit with a \$2850 tab for a variety of technical violations was WKBH/Holmes, WI. It was cited for EBS violations, lack of equipment performance measurements, having no duty operator at a transmitter that didn't use remote metering, and having a tower fence that failed to prevent contact with the antenna lead-in wire.

WXIC/Waverly, OH was fined \$2400 for changing its antenna location and converting to nondirectional broadcasting without specific FCC approval. A \$1000 fine was imposed on KPRB/Redmond, OR for unapproved antenna changes and failure to comply with its construction permit.

Dave Schmidt, 42 Chelwynne Road, Castle Hills, New Castle, DE 19720

Here is the official NRC column which asks the question, where's the fruit cake? When sending your items in, please type or neatly write, skip a line or two between items, one side of the paper, EST, etc., etc. And if you use carbon paper, send the 4th copy to one of the other editors-hi! And without further ado, here we go:

### \*SPECIAL\*

630 KBey OR	COQUILLE - 2/5 2042-2044 suddenly thru KOH/KIDD w/CW music into s/off Sounded to have dual ID but missed it due to fade, ex-KSHR. (DKK-CA)
1030 KWHY CA	POLSON-SACRAMENTO - 1/28 0320 1st noted on reg asked w/MCN CW format w/only fair signal w/KTWO off MM, lost most other nites w/KTWO. Day signal is no 50000 watts either, suspect 1, problems must still exist. (DKK-CA) 2/1 0920 poor w/ID, talk on CA Well Water contamination, 1st time noted. (JM-OR)
1190 KEX OR	PORTLAND - Noted AN MM 2/4, list as off MM 0400-0700 in log. (REW-HI)
1350 KBOT AR	CABOT - 2/5 1903 xint w/local ads, scholl/business closings, full data s/off mentioning new power, 2500 watts. ID given as 'Cabot-Beebe-Jacksonville'. (JM-PA) How about Malickyville? (DS)
1360 WYSE GA	BAINBRIDGE - 2/4 0430-0500 fair w/WSAI/UNID weather station w/MOR, ID, possible AP news. (JM-PA)
1580 WPSK VA	PULASKI - 2/2 1910+ very good o/all w/PM 107 audio, CW music, no ads, weather, ID on hour as 'The Valleys Best', forgot to s/off AM, ex-WPUV. (JM-PA)

### \*EMERGENCY BROADCASTS\*

1000 WTAK AL	HUNTSVILLE - 2/3 2244 good w/Dixie by Elvis, on due to ice storm. (WPT-DC)...2/2 thru 2/4 2009+ xint w/report on 'ice rink roads', oldies, weather, phone #'s, shelter info., again 2/11 2353 strong w/WCFL w/reports done by CE. (JM-PA)
1360 UNID	2/4 0130+ fair w/WSAI, continuous taped weather info for south and Huntsville-Decatur area, noted calls 'KINGO' (STL link?), no other ID's noted, has me completely baffled! (JM-PA) Me, too. (JS)
1560 WPSK WV	KINGWOOD - 2/1 0624 xint w/snow info, school closings, weather and 'the best music of the 60s-70s-80s', has feet of snow! (JM-PA)

### \*MIDDAY - MIDNITE\*

540 WGTO FL	CYPRESS GARDENS - 2/4, 2/7 1806-1815 very good w/ads, promos, PSAs, ID as 'Continuous Country', CW music. (JM-PA)...1/30 1753 poor w/ID w/lots of WBIX. (PO-NH)
WLIX NY	ISLIP - 1/30 1754 very poor w/ID thru WGTO. (PO-NH)
550 KUSA MO	ST LOUIS - 2/2, 2/4 1811-1845 very good at times w/CW music, ID, ads, jingles, news, sports, Metro weather, traffic reports, never noted as KSD but then never tried! (JM-PA) And you missed out, too! (DS)
560 WMIK KY	MIDDLESBORO - 2/4 1845 good after WHBQ faded w/full data s/off, mention of K92, 92.7. (JM-PA)
570 WMI MS	BILOXI - 2/2 1840-1845 just noted w/ID in WKBN null then CW music, ad, ID as '57 WMI'. (JM-PA) And the kitchen sink, too? (DS)
730 WLOR GA	THOMASVILLE - 2/3 1827 very good, alone w/CW music, full s/off. (JM-PA)
770 WAIS OH	BUCHTEL - 2/9 1758 noted w/s/off. (PW-PA)
880 KWIP OR	DALLAS - 2/7 2157 w/local news, time check, ID, o/Spanish. (MF-CA)
900 CHML ON	HAMILTON - 2/5 2335 w/CKTS w/movie ticket giveaway, pop music, ID. (PO)
910 KOXR CA	OXNARD - 2/3 2310 w/Spanish/English ID, spanish music, ID given in Spanish, spoken slowly by female anc'r, way o/KNEM. (REW-HI)
CKLY ON	LINDSAY - 1/28 2359 weak but noted full ID, news. (PO-NH)
KLGN AR	BLITHEVILLE - 2/9 1834 strong w/'Pucker Power' promo, ID. (JM-PA)
960 WERC AL	BIRMINGHAM - 2/11 1821-1830 good w/WTKN-970 splash w/ads, sports phone in show. (JM-PA)
980 KCIJ LA	SHREVEPORT - 2/9 1854-1900 faded up o/mess w/WTKN-970 splash w/end of Sheridan news, gospel music, full data s/off. (JM-PA)
990 WLKW RI	PROVIDENCE - 1/27 1350 w/ID, PSA, ads, oldies music w/WNTY/WNYR noted slightly, per verie was non-DA at this time, antenna problems. (PO-NH)
WHOO FL	ORLANDO - 2/6 1805-1815 good w/ABC news, Skyscan weather, CW music, gone at proper power cut times. (JM-PA)
1000 WTAK AL	HUNTSVILLE - 2/11 1830 very good w/amusing s/off 'spend \$250,000 for an extra 7 minutes...we'll leave our freq. to the Yankees and to our neighbors to the south, be very careful Gringos!' Noted back on 2353 w/storm related info. (JM-PA)
KYOK OK	OKLAHOMA CITY - 2/6 1848 fair w/fading w/traffic report, ID. (TD-KY)



1060 KHYM TX GILMER - 2/10 1900 very good w/TX news, ID then full data s/off w/ STL link call. (JM-PA)

1070 WIBC IN INDIANAPOLIS - 1/18 1729 poor w/sports, ID. (MS-ON)

1080 WEEP PA PITTSBURGH - 2/10 1900+ my favorite station forgot to s/off, running CW music, ads. (JM-PA) He likes to visit zoos, too! (DS)

1090 CHR8 PQ ST JEAN - 1/17 1716-1730 French ads, English and French CW music, ID. Included a French version of Mule Skinner Blues! (MS-ON) I'll just bet there is one disappointed person out there! (DS)

1110 CBSL PQ RIMOUSKI - 1/23 17328 xint then faded w/French talk. (WPT-DC)

1140 WKZF AL HAZEL GREEN - 2/5 1826-1830 xint in WRVA null w/school closings, Skyscan weather, CW music, no data s/oFF to return 0600. (JM-PA)

1150 WDEL DE WILMINGTON - 2/4 2042 strong w/ad, postgame basketball show. (JM-PA)

1190 WLBI NY NEW YORK - 1/9 1930 noted w/s/off thru WOWO/WBDY. (MS-ON)

1190 WBDY VA BLUEFIELD - 1/9 1729-1730 w/s/off w/invite to tune to WBDY-FM, slogan noted as 'More of the Country America Loves'. (MS-ON)

1230 WTSV NH CLAREMONT - 1/27 1541 poor w/CW music, ID, sports update. (PO-NH)

1240 WCNC NC ELIZABETH CITY - 2/12 1815 good w/Ski Alert promo, local mentions. (WPT-DC)

1250 WTAE PA PITTSBURGH - 2/7 1840 xint w/pop music, ID. (TD-KY)

1260 WXTV OH PORTSMOUTH - 2/6 1902 u/WNDE w/ABC news, then atop w/EZL music, schedule for State of Union events. (TD-KY)

1370 KCRV MO CARUTHERSVILLE - 2/7 1845 good w/WIXZ-1360 splash w/full s/off. (JM)

1370 WBTN VT BENNINGTON - 1/27 1600 very weak w/ID, AP news. (PO-NH)

1380 WMP8 TN MILLINGTON - 2/9 1905 good w/end of news, dual ID w/Memphis, into CW music. (JM-PA)

1390 WCSC SC CHARLESTON - 2/6 1953 fair w/PSA, Coastal Weather, oldie. (TD-KY)

1410 WLBJ KY BOWLING GREEN - 2/6 1912 promo, CW music, time/temp check, school closing into, fair o/noise. (TD-KY)

1420 WDOV DE DOVER - 1/31 2350 w/others w/ad, ID, pop music, no WPOP. (PO-NH)

1420 WCEB PA DEBOIS - 1/12 1705 CBS news, jingle/ID, rock music, weather. (MS-ON)

1430 CJCL ON TORONTO - 1/31 2343 ID noted just o/hash. (PO-NH)

1500 KCLF LA NEW ROADS - 2/7 1902-1907 xint w/rock music til s/off, 'licensed as your community station'. (TD-KY)

RSTP MN ST PAUL - 1/18 1631 ads, promo, phone # given, sort of early! (MS-ON)

1530 WDEY MI LAPEER - 1/23 1702-1715 good w/school closings, AdCon music, local ads, several 'FM 103' ID's w/no mention of AM. (MS-ON)

1530 WVPC PA MCCONNELLSBURG - 1/12 1715 noted w/s/off mentioning operates from sunrise to sunset only. (MS-ON)

1540 WNIO OH NILES - 2/8 1800 noted w/s/off. (FW-PA)

1550 WOKJ MS JACKSON - 2/6 1925 fair/good w/ads, ID. (TD-KY)

1560 WKBA VA VINTON - 2/8 1758 noted w/s/off. (FW-PA)

1560 KLTI MO MACON - 1/28 1806 very poor/fair w/CW music, weather, sports, ads, item on where new phone books could be picked up, more CW music. (NJW)

WAGC AL CENTRE - 1/28 1840-1846 poor o/u KLTI w/CW music, ID, sports w/female anc'r. (NJW-ON)

UNID 1/28 1814-1818 briefly atop KLTI w/rock music, then gone, suspect may have been KQYX but not ID'ed. (NJW-ON)

1580 WPMP MS PASCAGOULA - MOSS POINT - 2/2 1847-1910 w/B/Sol music, ID as 'The Hot One' w/Biloxi-Gulfport given in ID's. (NJW-ON)

WEYY AL TALLADEGA - 1/28 1800 faded up, poor o/mess w/s/off and promo for the next days programming. (NJW-ON)

WBBE KY GEORGETOWN - 1/18 1633 info on U of KY registration, ID, weather. (MS)

WITN WI WATERTOWN - 1/16 1700 noted w/ID, time check. (MS-ON)

WUIV NC ICARD - 2/9 1800 noted w/s/off. (FW-PA)

KNIX AZ TEMPE - 2/4 2010-2015 very good wads, USFL promo, CW music, jingle/ID as '1580 Country'. (JM-PA)

1590 WCLL MS JACKSON - 2/11 1844+ strong w/EZL music, jingle/ID, forgot to change from day pattern evidently. (JM-PA)

1600 CHNR ON SIMCOE - 1/26 2333 w/others w/ID, weather, pop music. (PO-NH)

\*MIDNITE - MIDDAY\*

590 KLSN WA SPOKANE - 2/4 0425 good w/Talknet, ID, news. (JW-OR)

610 WDAF MO KANSAS CITY - 2/11 0140 xint w/61 Country ID, national weather, CW music, no ID or WIP. (JM-PA) 8121

630 KOH NV RENO - 1/7 0206 fair o/KIDD w/ski report, ads, Talknet. (MF-CA)

650 CISL BC RICHMOND - 1/1 0335 fair w/pop music, news, ads. (MF-CA)



660 CFFR AB CALGARY - 2/4 0430 powerful, alone w/ID, Tahoe ski trip promo, ID. (REW)

720 KDNW NV LAS VEGAS - 1/24 0000 poor w/BBD, promo for Rebel basketball. (MF-CA)

\*WGN IL CHICAGO - 2/11 0235 noted on OC, w/Jamaica left. (JM-PA)

850 WCGY FL W PALM BEACH - 2/4 0048 weak w/ID, PSA, oldie. (PO-NH)

880 \*KRVN NE LEXINGTON - 2/3, 2/4 seemed to be off this AM, usually way o/all here. (REW-HI)

\*KMFR OR PHOENIX-MEDFORD - 2/3 0307 single ID noted, possible ET. (REW-HI)

KIXI WA MERCER ISLAND - 2/3 0345 o/u Cuban w/ID, EZL music. (REW-HI)

KWIP OR DALLAS - 2/3 2155 promo for #1 in certain age group, oldies. (REW-HI)

\*UNID 2/10 0230 loud TT thru WCBS, suspect WMDB but no ID. (JM-PA)

920 WOKY WI MILWAUKEE - 2/11 0130 xint w/MXL, Sunny 920 ID's. (JM-PA)

950 UNID 2/4 0203 good w/WQBE w/B/Sol music, no ID, possible WQOV? (JM-PA) 10-41

990 WVSC PA SOMERSET - 2/1, 2/4 0715-0734 strong w/WNOX/CBW/WNRV w/CW music, ads, Top 30 Countdown, news, sports, weather. Close but not a local here. (JM-PA) Then move to Somerset! (DS)

1000 \*WCFL IL CHICAGO - 2/12 0200+ ET w/religious music, to return 'at sunrise', w/WKAT on this AM. (JM-PA)

1040 WHBO FL PINELLAS PARK - 1/23 0730 s/on u/WHO, soon above then faded. (DKK) 8111

KMAS WA SHELTON - 2/1 0924 poor w/ID, weather, in/out w/KHWY. (JW-OR)

1060 KPAY CA CHICO - 1/2 0432 fair w/Morning Watch, ID, NBC News features. (MF-CA)

1080 CJAM AB CALGARY - 2/4 0435 ID 'AM 106', CW music, PSA, clear signal. (REW-HI)

1090 KBOZ MT BOZEMAN - 2/4 0500 clear o/u XEPRS w/ads, ID. (REW-HI)

1130 CKWX BC VANCOUVER - 1/3 0251 xint o/KDRU w/CW music, time checks. (MF-CA)

1150 KPFS CA SANTA ROSS - 2/3 1145 w/Spanish talk, ads, evidently Spanish AMs. (REW)

1190 KLIF TX DALLAS - 2/4 0337 o/u KEX w/'Cliff' ID's, CW music. (REW-HI)

1210 KASY WA AUBURN - 1/5 0755 poor w/MoR, ID 'That KASY kind of Music'. (MF-CA)

1220 KOPC CA PALO ALTO - 2/3 1145 w/ID during Radio Concert Hall, my 3rd daytimer, there are no daytimers in HI. (REW-HI)

1230 KIBS CA BISHOP - 2/6 0215-0258 above din til s/off, has not changed to KBOV as of this time. (DKK-CA)

1290 KHSL CA CHICO - 1/27 0100 xint w/ID, CBS news, PSA, CW music. (MF-CA)

KAZA CA GILROY - 2/4 1200 Spanish ID, ad, o/u KHSL. (REW-HI)

KRGV TX WESSLACO - 2/4 0140 pop music, ID, 'Continuous Music' noted o/u KHSL/KMEN. (REW-HI)

KMEN CA SAN BERNARDINO - 2/4 0145 w/promo for weekend ski reports, ID. (REW-HI)

1300 KLER ID OROFINO - 2/1 0800 fair w/full data s/on. (JW-OR)

1330 KUPL OR PORTLAND - 2/6 0223 poor w/contest promo, ID, CW music. (MF-CA)

1340 WNBH MA NEW BEDFORD - 2/6 0039 thru clutter w/ID, oldies. (PO-NH)

1350 WSMB LA NEW ORLEANS - 2/4 0350 atop UNID Spanish w/phone talk, ID, news. (REW)

1370 WDEA ME ELLSWORTH - 2/4 0020 w/CW music, ID as Coastal Country, fair. (PO-NH)

1410 KERN CA BAKERSFIELD - 1/7 0236 fair w/pop music, ads. (MF-CA)

WMLL AL MOBILE - 2/4 0308 w/temp. check, ID into oldies, mostly o/KERN. (REW)

1490 WMRP PA LEWISTOWN - 2/4 0001 fair w/WABJ w/s/off w/FM 95.9 mentioned. (NJW-ON)

WPOR ME PORTLAND - 2/4 0024 faded in w/promo, mentioned 101.9 FM, CW music. (NJW)

KBAS AZ BULLHEAD CITY - 1/20 0600-0608 w/SNN news, ID, CW music. (DKK-CA)

1550 WSER MD ELKTON - 2/5 0704-0710 very good w/s/on into news, school menus, rock music then faded. (JM-PA)

WKVA WV CHARLES TOWN - 2/7 0700 very good w/s/on w/SSB, CW music. (JM-PA)

\*WYXX GA SMYRNA - 1/26 0228 xint w/REL music, ID. (JM-PA)

1590 WJSO TN JOHNSON CITY - 2/3 0204 very good w/news, AM 16 ID's. (JM-PA)

1600 WKVI AL MONTGOMERY - 2/3 0200+ strong in/out w/B/Sol, 'Sunshine Station' ID. (JM)

WRST WV MILTON - 1/20 0602 w/CHNR w/news, ID, CW music. (MS-ON)

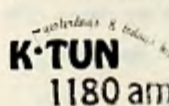
\*DIAL TWISTERS\*

REW-HI/Richard Wood, Hilo, HI/R1000, Beverages  
 PO-NH/Patrick O'connor, Hinsdale, NH/FRG 7, LW  
 MF-CA/Michael Denis Fabbri, Menlo Park, CA/Sony Walkman  
 JW-OR/Jack Woods, Waldport, OR/XCR-30, Hot Rod Loop  
 TD-KY/Tim Dotson, Prestonburg, KY/Uniden CR 2021, LW  
 NJW-ON/Neil Wolfish, Toronto, ON/FRG7, SM2  
 DKK-CA/Don Kaskey, San Francisco, CA/HQ140X, SM2  
 MS-ON/Morris Sorenson, Milton, ON/DX302, DA9 Loop  
 FW-PA/Frank Wheeler, Erie, PA/S40B, LW, DX160, Stewart's Loop  
 JM-PA/John Malicky, Pittsburg, PA/Aiwa AR158  
 WPT-DC/Bill Townshend, Washington, DC/DX160

NASHVILLE QUALITY MINISTERS  
**WNQM** 1300 AM  
 3000 WATTS DAY AND NIGHT

**WSSA 1570**  
 P. O. Box 831  
 Morrow, NEBRASKA

Hope that a few heard the WQIQ test, as well as WETB and WJSO once again. WJSO was good enough to stand by for WQIQ, so our thanks to C W WILLIAMS once again for his help and consideration toward the NRC! That's it for this week, 73's - Good DX!





Dave Schmidt, 42 Chelwynne Road, Castle Hills, New Castle, DE 19720

Here is the NRC column which is almost as exciting as a bottle of cod liver oil! When sending your items in, please type or neatly write, EST, one side of the paper, skip a line between items. Please keep your contributions current, we had to drop a number of tips sent in from mid January since they would be well over 2 months old before they would be read. And here we go:

KJEM-1190 kHz

\*DX TESTS\*

- 790 WETB TN JOHNSON CITY - 2/18 0000-0100 w/ID's, rock music, siren tones, fair but some fading, WQXI showed a couple of times. (TC-TN)  
 1590 WJSO TN JOHNSON CITY - 2/18 0130-0230 fair/good w/ID's, rock music, periods of siren tone. (TC-TN)...2/18 heard u/WAKR, weaker than WQIQ. (RUGG-PQ)  
 2/18 0145-0155 noted on car radio w/fair/very good signal while travelling between WQIQ and WCHE! (DS-DE)  
 WQIQ PA CHESTER - 2/18 0109-0130 poor w/tone, portions of a couple of ID's. (TC-TN)...2/18 noted u/WAKR. (RUGG-PQ)

Our THANKS again to C W WILLIAMS and PAXTON DURHAM for the WETB and WJSO tests. PAXTON was also kind enough to sign-off WJSO from 0000 til 0130 so WQIQ had a shot over a little wider area (they reported hearing it on the stations' off air monitor in WJSO's studio!). We'll have some results on all these tests in the near future!

\*SPECIAL\*

- 1170 CFML ON CORNWALL - Apparently silent, not noted during 1/31 visit to this area. (RUGG-PQ)  
 1180 KBWA AZ WILLIAMS - 2/10 2109 barely noted u/KERI w/local mentions, ex-KDAN. (LHC-CA)  
 1590 KOGO CA VENTURA-OXNARD - 2/14 0230 ID, 'The ones you want to remember' into nostalgia music, news from SNN, atop channel, ex-KBBQ. (WOOD-HI)

\*FREQUENCY CHECKS\*

- 1520 WCHE PA Not heard this month. (TC-TN) We were on 0240-0305 this month. (DS)  
 1590 WPTH VA 2/18 0103-0108 strong w/classical music, s/off w/mention of 0600 s/on and that he was going home. Sounded more like reg. sked. (TC-TN)  
 This is their monthly f/c, these things are calm compared to the old days (5 years ago) when they had a party at the same time! (DS)

\*MIDDAY - MIDNITE\*

- 550 WQNG RI PAWBUCKET - 2/16 1813 ID noted u/dominant WGR. (RCH-NY)  
 570 KLAC CA LOS ANGELES - 2/12 2042 noted w/OC, back 2058 w/possible audio problems. (LHC-CA)  
 KCNO CA ALTURAS - 2/12 2042-2045 xint w/CW music til s/off, KLAC on OC. (LHC)  
 910 WSUI IA IOWA CITY - 2/14 2147 fair w/NPR comedy, ID, weather. (SP-WI)  
 980 WRC DC WASHINGTON - 2/5 1741-1745 w/standards, 'Station of the Stars' ID, very clear w/another MYL under, possibly WSUB. (RCH-NY)  
 1210 WKXN MI SAGINAW - 2/16 1212 fair/good w/ads, sports scores, oldies. (SP-WI)  
 1270 KCOOK CA TULARE - 2/5 2011 barely noted w/ID then faded. (LHC-CA)  
 KGUJY CA PALM DESERT - 2/10 2036 fair w/'All News' ID. (LHC-CA)  
 1290 WQIN PA LYKENS - 2/16 1801 clear briefly w/female anc'r w/PSA, ID, lost quickly to WADO-1280 splash. Rare here. (RCH-NY)  
 1300 WXPX PA W HAZELTON - 2/16 1735-1740 atop jumble w/pop music, ID 'Greater Hazeltons Favorite Music'. (RCH-NY)  
 KROP CA BRAWLEY - 2/12 2123 barely noted w/I before fading. (LHC-CA)  
 KYNO CA PRESNO - 2/11 2022 weak w/ID. (LHC-CA)  
 1310 KLEK ID TWIN FALLS - 2/1 2040 fairly good w/ID, ad. (LHC-CA)  
 KNPT OR NEWPORT - 2/5 2343 o/u KFYI w/ad, ID. (WOOD-HI)  
 CHGB PQ LA POCATIERE - 2/16 1811 French news, mixing w/WSSJ/WJLK, noted again 2109 w/Canadians Hockey. (RCH-NY)  
 1320 WJAS PA PITTSBURGH - 2/14 2320 fair w/MYL, ID, Weather. (SP-WI)  
 WFHR WI WI RAPIDS - 2/16 1222 fair w/AdCon music. (SP-WI)  
 CPMG ON RICHMOND HILL - 2/18 1815-1817 pop songs from 1960, ID. (RCH-NY)  
 1340 WMTI MI MANISTEE - 2/16 1224 fair w/ad, Paul Harvey news. (SP-WI)  
 1370 WELV NY ELLENVILLE - 2/5 1736-1740 financial news, ad, ID w/mention of 'The Sound of Swing'. (RCH-NY)  
 WPEA NH MANCHESTER - 2/16 1805 clear w/ad, weather and NH vs New Haven basketball. (RCH-NY)

- 1410 WDOV DE DOVER - 2/17 1720-1722 briefly clear w/rock music, weather for 'Capital area' then WPOP took over. (RCH-NY)  
 1440 WFTQ MA WORCESTER - 2/17 1958 ID, promo for Sat. Night oldies. (RCH-NY)  
 1450 KDXU UT ST GEORGE - 2/7 2113 very poor w/mention of Osmonds, ID. (LHC-CA)  
 1460 WRKR WI RACINE - 2/16 1228 fair/good w/SP vocals, phone calls, ID, o/u WBRN. (SP-WI) SP vocals? You made a record? (DS)  
 KENO NV LAS VEGAS - 2/10 1953-2020 very good w/ads, ID. (LHC-CA)  
 WWCN NY ALBANY - 2/17 1959-2000 ID, ad, news. (RCH-NY)  
 1510 KESJ AZ MESA - 2/8 2005 very weak u/KNSE/KGA w/news, sports, ads. (LHC-CA)  
 KIRV CA PRESNO - 2/4 2045 caught last portion of s/off. Again 2/5 2003-2045 fair w/religious program, Mutual news, ad, s/off. (LHC-CA)  
 KTIM CA RAFAEL - 2/4 2045 noted w/portion of s/off after KIRV. (LHC-CA)  
 1580 WTYO NJ HAMMONTON - 2/17 1800 s/off in English after Spanish program, in well after WLM s/off, some CBJ. (RCH-NY)

\*MIDNITE - MIDDAY\*

- 550 KFYR ND BISMARCK - 2/17 0405 fair w/'K-Fire' ID's, news, weather, time check, Top 40 music, sports. (SP-WI)  
 570 \*KLAC CA LOS ANGELES - 2/4 0301 noted on OC then off 0315. Off again 2/11 0300 w/OC and TT, back to reg. sked. 0435. (LHC-CA)  
 KLUB UT SALT LAKE CITY - 2/4 0322 good w/CLAC off w/weather, ID. (LHC-CA)  
 KVI WA SEATTLE - 2/4 0315 fair w/CLAC off w/oldies. (LHC-CA)  
 560 KSPO CA SAN FRANCISCO - 2/11 0326 noted w/OC then s/off. (LHC-CA)  
 KBLU AZ YUMA - 2/11 0330 good w/KSPO off w/various station slogans, ads. (LHC)  
 KLZ CO DENVER - 2/11 0345 w/KSPO off, noted w/weather, road conditions. (LHC)  
 690 WVOK AL BIRMINGHAM - 2/3 0744-0748 good above others w/weather, gospel music (WW-TX)  
 700 KGRV OR WINSTON - 2/13 1115 horribly outdated religious program w/DECEMBER being mentioned, looking forward to 1985, etc. ID w/foghorn, in clear. (Wood-HI) If I heard a foghorn, I'd move, too! (DS)  
 730 CKAC PQ MONTREAL - 2/17 0356 good w/French pop music, jingles, talk. (SP-WI)  
 790 WEAR VA NORFOLK - 2/7 0111-0122 good w/WQXI/WAKY w/rock oldies. (TC-TN)  
 920 KGAL OR ALBANY - 2/13 1015 w/'K-Gal' ID's, ads mostly for Corvallis. (Wood-HI)  
 940 WINE CT BROOKFIELD - 2/1 0640 w/rock music, ID, PSA? (RCH-NY) Sure am! (DS)  
 960 CKWS ON KINGSTON - 2/17 0350 good w/Top 40 music, ads, stereo mention. (SP-WI)  
 1000 KMLO CA VISTA - 2/13 1053 EEL oldies/big band music, ID, thru KOMO. (Wood-HI)  
 1010 KXEN MO ST LOUIS - 2/3 0800-0802 s/on mixing w/KLRA, mention of live versus taped programs done at station then talk on UN. (WW-TX)  
 1020 KTNQ CA LOS ANGELES - 2/17 0300 Sunday AM SP starts 0300, not as noted in NRC log, noted w/s/off. (Wood-HI)  
 1030 KHWY CA PULSOM - 2/12 1125 UPI news, ads, ID w/'We've got the right feeling' slogan, clear signal. (Wood-HI) I get the right feeling, too, but I don't dare say when! (DS)  
 1180 WHAM NY ROCHESTER - 2/11 0405 poor w/Ai news, local KEZY-1190 was off. (LHC)  
 1190 \*KEZY CA ANAHEIM - 2/11 0355 noted on ET w/TT/OC, ID. (LHC-CA)  
 KEX OR PORTLAND - 2/11 0359 'The Pulse of Portland' noted well u/KEZY OC, local and ABC news, weather. (LHC-CA)  
 1200 WOAI TX SAN ANTONIO - 2/18 0455 noted w/OC til 0459 s/on, change from time listed in log, was trying to ID a Bolivian. (Wood-HI)  
 1230 KWG CA STOCKTON - 2/12 1135 weather, ski report, MOR music, dominant. (Wood)  
 1280 WQUE LA NEW ORLEANS - 2/21 0113 weak w/promo for baseball ticket giveaway, top hit of the day, 13-Q ID. (TC-TN)  
 1380 KAUL AR N LITTLE ROCK - 2/9 0507 atop w/MYL, ad for opening in station sales department, 1st time noted here on new nite pattern. (WW-TX)  
 1410 WMML AL MOBILE - 2/9 0504 above others w/NBC news, weather, CW music w/KQAM/UNID w/Mutual news under. (WW-TX)  
 1450 WKIP NY POUGHKEEPSIE - 2/19 0811 ads, ID, fairw/no WCIC/WNAB. (RCH-NY)  
 1420 KTOE MN MANKATO - 2/9 0448-0451 weak u/WOC's Larry King, weather, NHL and college hockey scores, promos, pop music. (WW-TX)  
 WOC IA DAVENPORT - 2/9 0500 good o/KTOE w/weather, ID, NBC news. (WW-TX)  
 1550 WOKJ MS JACKSON - 2/9 0538 poor but steady signal w/item for air time to churches, gospel music, no sign of KOKA. (WW-TX)  
 1560 WPAD KY PADUCAH - 2/9 0535 poor w/fading w/pop music, promo, local PSA, Star Station ID, believe they're on the SMN. (WW-TX) Yep! (DS)  
 1570 CKTA AB TABER - 2/18 0400 clear w/XERF evidently off, can't seem to get any Eastern Canadians, others on WC note the same? (Wood-HI)...2/9 0431-0435 tentative w/CHEC-1090 relay, rock music, weak w/fading, XERF was off! (WW-TX)  
 CPOR ON ORILLIA - 2/9 0435-0441 turned radio around, noted w/MYL music, ads, and ID in nick of time, no CKTA problems, XERF off. (WW-TX)  
 1600 KATZ MO ST LOUIS - 2/18 0100 caught ID while tuning up for WQIQ/WJSO tests, no sign of usual WEUP/WXVI. (TC-TN)



wdev  
RADIO VERMONT

KBSM  
1030 AM



A short column this week, but it looks as though next week is shaping up to be a good one.

I do hope that some can realize that we do indeed TRY to get the column out each week ON TIME but there are just some rare times when others things such as families and work must come first. In the 3+ years I've had the column, this is the first time I've had to make adjustments on scheduling time to do the column. I do hope you can consider our situation before making judgements which don't look good or aren't fair to those who volunteer their time to make this bulletin possible!

A reminder again, please try to keep your contributions current, anything sent along which is over 4 weeks old gets filed in file 13.

\*TURNING TUNERS\*

- WV-TX/Wally Wawro, Garland, TX/RP2800
- LHC-CA/Les Carpenter, El Toro, CA/R2000, LW
- RCH-NY/Richard Harrison, New York, NY/Grundig 3400
- TC-TN/Tom Connatser, Sevierville, TN/Superadio
- WOOD-HI/Richard Wood, Hilo, HI/R1000, R71A, 3 beverages and a pop!
- RUGG-PQ/Andy Rugg, Nuns Island, PQ/TRF
- SP-WI/Sheryl Paszkiewicz, Manitowoc, WI/NRD515
- AIF/Anyone I Forgot!



And that's it for this week! 73's - Good DX, too!

On calls

For radio station owners who are looking to change call letters comes the introduction of the "available call letter" list from the New York-based Radio Information Center (RICO).

The basic ingredient is a current printout of unused calls, said RICO President Maurice Webster. All calls granted by the FCC or applied for up to the week before the list is produced are eliminated, he said.

RICO is also offering subscribers an option to purchase a call-letter list that highlights available popular two-letter combinations such as "EZ" or "MG," which stations can use as promotion vehicles.

Webster said the list includes complete information on how to apply to the FCC for call letters. Cost for the entire call letter list of either "K" or "W" calls is \$110. The special two-letter combination list goes for an additional \$20.

## New Radio Allocation Goes Into Effect Next Sunday

CLIP THIS OUT.

This table will help you make a log of radio stations under the new allocation, which goes into effect Sunday. The radio editor of The Times has worked out this comparative table of old and new positions on the dial for the convenience of readers in marking up a new log. For instance, if you want to locate the new position of WFAF you will see that it corresponds to the old position of WJZ. These stations were selected because they are readily heard in Tampa.

PRESENT SCHEDULE			AFTER NOV. 11		
Letter	Kilohertz	Letter	Kilohertz	Letter	Kilohertz
WRUF	Florida University 1480	WRUF	Florida University 1470	WJAX	Jacksonville 1250
WDAE	Tampa Times 1120	WQAM-WJAX	Miami 1240	WPG	Atlantic City 1100
WPG	Atlantic City 1100	WTAM	Cleveland 1070	WBAL	Baltimore 1080
WBAL	Baltimore 1080	KDKA	Pittsburgh 980	WFLA	Clearwater 900
KDKA	Pittsburgh 980	WWSN	St. Petersburg 900	WHS	Louisville 820
WQAM-WJAX	Miami 1240	WSAI	Cincinnati 800	WBAP	Fort Worth 800
WSM	Nashville 890	WGY	Schenectady 790	WZZ	New York 760
WJAX	Jacksonville 1250	WWSB	Atlanta 740	WGN	Chicago 720
WSAI	Cincinnati 800	WGR	Newark 710	WLV	Cincinnati 700
WGY	Schenectady 790	WZZ	New York 760	WFAF	New York 660
WTAM	Cleveland 1070	WSM	Nashville 890	WDAE	Tampa Times 620
WGN	Chicago 720	WDAE	Tampa Times 620	WDDB	Orlando 620
WGR	Newark 710				
WLV	Cincinnati 700				
WJZ	New York 660				
WHS	Louisville 820				
WNS	Atlanta 740				
WFAF	New York 660				
WBAP	Fort Worth 800				
WFLA	Clearwater 900				
WWSN	St. Petersburg 900				

NOV. 9 1978  
Tampa Daily Times R. Webster

## Evangelicals fight for 'God-given' radio station

By Alan Fram  
Associated Press

WASHINGTON — A fundamentalist Christian group, declaring its Zarephath, N.J., radio station a "God-given gift," has moved closer to fending off a license challenge to one of the country's oldest religious stations.

A Federal Communications Commission review board agreed Dec. 23 to allow Pillar of Fire to continue operating WAWZ-FM.

The 37,000-watt station beams predominantly religious programming within a radius of about 40 miles of the Somerset County community, an area that includes New York City.

An attorney for the owners of a nearby station, who are challenging WAWZ's license, said that he would appeal the FCC decision. But WAWZ officials vowed to

continue fighting for their station. "We consider it a God-given gift, and we're going to defend it accordingly," said Rea Crawford, WAWZ's general manager.

Pillar of Fire, an evangelical offshoot of the Methodist Church, was founded in Denver, Colo., in 1901 by Alma White Zarephath, whose initials appear in the call letters, a group member said.

The group first was licensed to broadcast in 1927.

When WAWZ-FM's license came up for renewal in 1981, a group called Radio New Jersey, which owns WRNJ-AM in nearby Hackettstown, filed for the FM frequency, proposing to operate a new station in Somerville.

WRNJ wants WAWZ's frequency because moving to the FM band would allow it to broadcast at night, which it now cannot do, Begley said.

Chuck Hutton, 437 Hardendorf Ave., Atlanta, GA 30307

Times are GMT For ELT subtract 5 hours. Deadline: Monday

- 155 USSR Khabarovsk 1/24 1541 male and female w/alternating talk, good signal.
- 164 FRANCE Allouis 1/16 1541 0621 male w/lots of FF talk, good signal.
- 182 USSR Petropavlovsk 1/16 0527 male and female w/talk, not // 236, 263 so must be this, very early.
- 191 USSR Blagoveschensk 1/26 1559 Mayak IS, // 182.
- 236 USSR Syktyvkar etc. 1/17 0327 female w/piano and exercise pgm, program one.
- 263 USSR Moscow 1/21 1548 male with RR talk, good // 236.
- 535 GRENADA R. Grenada 1/25 1015 program on banana growing, pop mx, funeral anncs, weak signal. Also heard 1/26 0102 w/world news, good signal. (McCoy)
- 600 CUBA R. Rebelde Urbano Norris 2/6 0359-0400 fair signal, SS ballad by male vocalist, Rebelde ID on the hour with "Internacionale" mentioned several times. (Sorensen)
- 639 CZECHOSLOVAKIA Praha 1/20 2253 male with country or city, then story or news, probably last newof the day before s/off.
- 640 CUBA Guanabacoa 1/12 0457-0500 good signal, SS news, Progresso ID on the hour after a few bars of instrumental music. (Sorensen)
- 666 USSR R. Vilnius 1/20 2254 female mentioning items starting next week, all EE, then male just before band music, 2257 male with frequencies and address given only as Radio Vilnius, Lithuanian SSR, nothing else then two IS. Tried for EE service before, only takes 7 years of trying.
- 756 NEW ZEALAND 1YA Auckland 1/17 1327 male with stroy // 819.
- 774 FIJI Suva 1/21 0931 male and female w/Hindi talk, stn a pest, this and 891 are good indicators of DU cx.
- 800 NETHERLANDS ANTILLES PJB Bonaire 1/12 0457-0500 ending EE religious program "The Christian Psychiatrist", ID on the hour, "bringing the message of salvation to the world, this is Trans World Radio, Bonaire, Netherlands Antilles" then into "The Radio Bible Hour" from Orlando. Fair signal with some splatter from super-local CKMW-790. (Sorensen)
- 810 BAHAMAS Freeport ZNS3 2/8 0035-0122 news w/funeral anncs, area church events, weather, an anti-drug PSA, three good ID's.
- 825 ST. KITTS R. Paradise 1/26 0015 "Showers of Blessing Missionary Broadcast" program. Lots of fade but no problems from WCCO/WBAP. (McCoy)
- 830 BELIZE R. Belize 1/26 0200 pop mx, BBC news, good signal under WCCO null. (McCoy)
- 846 ITALY Roma 1/20 2307 three different males with II talk, xint sig.
- 873 USSR Mezen 1/19 0059 Mayak IS, 6 pips then female anncr, xint, only TA in from 1/16 to 1/20 except LW.
- 936 MOROCCO Agadir 1/15 0404 male wailing, all in the clear.
- 954 JAPAN JOKR Tokyo 1/26 1602 "California Girls" not Beach Boys, then male and giggling female anncrs in JJ, xint.
- 1008 AUSTRALIA 410 Brisbane 1/20 1058 jingle for Radio Ten, between rr mx, good w/Com. net GRM.
- 1026 AUSTRALIA 4MK Mackay 1/26 1608 TC, ID then spot, good signal, in all morning.
- 1026 UNID 1/20 2245 classical mx, xint, either Austria or Soviet.
- 1035 PORTUGAL Lisbon 1/15 0504 bunch of spots, xint.
- 1044 MOROCCO Sebba-Aioun 1/15 0409 male wailing, good signal.
- 1044 NEW ZEALAND 42B Dunedin 1/27 0906 male with cricket scores // 1008, 1035.
- 1089 ENGLAND Radio One Moorside Edge 1/20 2234 rr mx, xint // 1053.
- 1134t AUSTRALIA 2AD Armidale 122 1042 sounded like an American preacher, 1105 female with news, 1109 end of weather, into ballad, poor signal.
- 1143 AUSTRALIA 4HI Emerald 1/22 1103 male with weather, TC and 4HI ID, into country music, good signal, just briefly. Usually get 2HD, new.
- 1161 AUSTRALIA 4MB Maryborough 1/22 1004 end of weather, more news, weather at 9, 1018 TC sounded like 18 past 7, gave ID, rr mx. Another newie, should have been 18 past 8 by the way.
- 1197t IRAQ Al-Hammadaniyah 1/26 1732 male with ID, talk, could be AA, that style, poor.
- 1206 AUSTRALIA 2GF Grafton 1/20 1048 ID as Holiday Coast Radio, xint.
- 1215t ENGLAND Radio Three Moorside Edge 1/20 2235 classical mx, xint sig.
- 1251 LIBYA Tripoli 1/20 2312 AA type mx, local-like signal with slight het.
- 1287 AUSTRALIA 2TH Tamworth 1/20 1040 spot then country music jamboree. Poor signal.
- 1314t\*\*USSR Yerevan 1/26 1736 mostly male and female on young child w/talk, bits of AA mx to 1750 then AA mx o/the hour, no pips. Faded, moved again at 1815, male spoke briefly o/AA type mx, poor signal throughout, lots of static. This must warrant stars and fanfare.



- 1323 FIJI Rakiraki 1/15 0820 male with EE talk, fair w/CHQ-R-M 1320 splash.  
1332 NEW ZEALAND IXI Auckland 1/15 0823 spot then Radio Eye ID and Anne Murray record, xint.
- 1395 ALBANIA R. Tirana Lushnje 1/20 2311 male with SS talk, xint.  
1404 FRANCE France Culture Brest etc. 1/15 0511 AA mx // 1377, fair.  
1413 OMAN BBC Masirah Island 1/26 1804 male with EE WS news.  
1413 JAPAN JOIF Fukuoka 1/17 1416 male ith JJ talk, good.  
1440 JAPAN JOIF Sapporo 1/7 1416 male, JJ talk, xint signal.  
1449 JAPAN JOGM Abashiri 1/17 1415 male and giggling female //1287 HBC.  
1467 MONACO TWR Monte Carlo 1/20 2235 male with talk about Jesus, asio childrens choir, wavy signal, EE service.
- 1476 NEW ZEALAND Hauraki Auckland 1/21 spot for Pepsi feature, 0936 promo for Kevin Balck breakfast show, Hauraki Jingle, rr mx, xint signal.  
1481 UNITED ARAB EMIRATES Dubai 126 1812 female w/talk, poor audio, frequency would indicate this.
- 1494 USSR Leningrad 1/20 2310 male with Soviet sports results then female anncr, fair signal, EE service.  
1521 UNID 1/26 1731 female with CC talk, good.  
1521 USSR unid 1/26 1729 Mayak IS.  
1530 VATICAN Vatican City 1/20 2309 calssical mx, xint signal.  
1557t AUSTRALIA 2RE Taree 1/20 0943 rr mx, 0945 rreligious pgm, sponsored by some NSW Free church.  
1566 SOUTH KOREA HLAZ Jeju 1721 male with RR talk, local-like signal.  
1580 ANTIGUA VOA 2/6 0258-0300 EE female anncr ending music pgm with mention of "Boston Pops", into VOA news on the hour. Poor, mixed w/partially-nulled CBJ. (Sorensen)  
1593t NEW ZEALAND R. Pacific-Auckland 1/20 0942 tete-talk, por signal.

John Herman Vinita, OK  
Bob McCoy Lincoln, NE  
Morris Sorensen Milton, ON  
Brian Vernon Elsa, Yukon

R388, Radio West loop  
RF2200  
DX302, DA9 loop  
FR67000, R7A, Beverages

ES The Register Friday, Jan. 25, 1985

## HOME ENTERTAINMENT

# Heartbeat Theater pulse stops after 29 years of Salvation Army dramas

By Gary Lycan  
The Register

## RADIO WAVES

Heartbeat Theater's pulse stopped a few days ago. It lived 29 years. We reported the passing a week ago so listeners could catch the final performance, but space was tight and the notice was cut.

Cuts, however, weren't new to Heartbeat Theater. The Salvation Army cut the program from its operating budget this year and KLAC570 AM quietly cut it from the station lineup several weeks prior to its finale.

Heartbeat Theater outlived the network radio dramas—CBS Mystery Theater, CBS Adventure Theater, Earplay, Masterpiece Theater. Heartbeat's stories and pacing were so outdated for so long it probably had a very small audience by 1977 when new life was breathed into it by a new production team a few years ago.

David Krebs, an actor and writer, chronicled the life and death of Heartbeat. Here are excerpts of his report:

"It was the last surviving commercially produced radio drama in Hollywood. It began in 1955 with producer C.P. MacGregor. Over

Nearly three decades the Salvation Army has visited homes across the nation through this public service program. Each week a different dramatization was presented, including some stories adapted from case files.

"Heartbeat enjoyed its longest run on KGIL before moving to KFI and then KLAC (at the end, it was still heard on KNOB and KBPK). It was not particularly unusual compared to other radio drama of the 1950s. But as the social climate rapidly evolved during the 60s and 70s, Heartbeat stuck to its formula, the melodramatic potboiler. It became a stubborn anachronism.

"After C.P. MacGregor passed away, his widow continued in the role of executive producer for a few years. One other unfortunate decision was to continue using stock music that had been recorded by MacGregor during the 30s, and that had been used time and time again on previous MacGregor programs. This period music dated the Heartbeat productions and handicapped producer-director Don Hills in his attempts to update



Post Office Box 42, Laurel, Maryland 20707

the stories.

"The army was interested in improving the series. It retained Hills to locate a more suitable production house. The search ended (in 1977) with George Gilbreath and Studiobouse. Working with Hills, who had been with Heartbeat since 1969, Gilbreath forged it into something more relevant, more believable, and quite a bit more entertaining.

"In dealing with child abuse, incest, prostitution, homosexuality and other frank issues, Heartbeat packed more of a punch than its competitors. The last two scripts were recorded Oct. 10, 1984. They were "Time Out of Mind" (episode 1,507) and "Casper and Porter" (no. 1,508).

"On hand for "Time" were Frank Nelson, Anne Seymour, Alan Bergmann, B.J. Ward, Jack Angel, soundman Cliff Thorsness, recordist Bob Luttrell, Bergmann, Ward and Angel have voices heard constantly by the public, but their names are not widely known. Thorsness has been inventing

- To 441 14 -

# KANADIAN KORNER

John Oldfield, 7135 129A Street, Surrey, BC V3W 6T4

AM Station News from Canada

- 700 NB CHSJ St. John gets a CP for 10kw. U4...ex 1150.  
770 AB CHQR Calgary gets a CP for 50kw. U2...ex 810.  
770 AB CIBQ Brooks denied a CP...from 1340(D. Sjs via Ted 'G').  
820 ON CHAM Hamilton gets a CP for 50kw. U4...ex 1280.  
820 ON CHAM Hamilton gets a CP for 50kw. U4...ex 1280.  
830 ON CPJR Brockville got a CP for 5kw. U2 ex 1450. Another surprise as many freq. changes aren't related.  
870 BC CKIR Invermere-Radium is on(Nancy Hardy beat me.) ID now "Columbia-Shuswap Radio" CKXR-580/CKOR-1340/CKR-1400/CKIR-870/ & CKCR-1-102.1 North Shuswap(that's Sorrento.) Traded calls with CKCR-1(ex CKIR). Good nights in Van. suburbe w/TWL/KORD/KUUY/KIUV.  
880 AB CHQT Edmonton got the CP for 50kw. U2...ex 1110. CKSQ lost.  
910 AB CKDQ Drumheller got the booty prize: 50kw. U2 but lost out on bids for CKSQ-880 and CIBQ-770. IS via Ted(CHQR).  
1070 AB CKST St. Albert is OFF.  
1230 AB CILW Wainwright. CRTC list says CILW & not CJLW???  
1340 AB CHLW-1 Grande Centre-Cold Lake listed by CRTC. Not CILW. Anyhoo...they both still twin CHLW-1310.  
1370 PQ CPVD denied any twinning of PMers.  
1380 NB CHLR Moncton is OFF(Canadian Press).

NHL Toronto Maple Leafs...a bit late, eh!

CJCL-1430 Toronto: CHUC, CKIS/CJNE/CKNR, CHRO, CHYR, CPMK-PM, CKOB, CKRW, CJTH(CJBC & CJNH not listed), CKSB-750, CACS, CJTH/CJFK, CKMP, CPCH, CKBE/CKCB, CPJR-830, CJRH, CPOR, & CJQM-PM...good for 1935 too. But why would anyone want to carry a Maple Leaf game, hi?

The big Regina-Saskatoon-Brandon frequency switches should be OKed next.

## Today's Radio Programs

### FEATURES ON THE AIR

Friday, Nov. 9  
(Eastern Standard Time)  
6-8:00—Cities Service Hour: Famous Beatniks—WEAF, WEEI, WJIT, WRC, WGR, WCAE, WTAM, WWJ, WSAI, KYW.  
8-10:00—Dances: Pickard Family—WJZ, WRZ, WBAI, WHAM, KDKA, WLW, WJR, KYW, WBT, WSR, WSM, WHAS.  
8:30—Quakers: Irons de Baun, selected—WJZ, WRZ, WBAI, WHAS, KDKA, WJR, WLW, KYW, WHAS, WSM, WSR, WBT.  
9:30—Brier's Tunesful Troupe: Musical Heart Throbs—WEAF, WJIT, WRC, WGY, WCAE.  
10-11:00—United Oper Co. "Cavalleria Rusticana" in English—WOR, WCAE, WNAC, WEAN, WFBL, WBAK, WCOA, WABC, WAIC, WERC, WGHF, WSPD, WICC, WRK, WLW.

### FRIDAY, NOV. 9

(By the Associated Press)  
Programs in Eastern Standard Time. All time is p.m. unless otherwise indicated. Wavelengths on left of call letters, kilocycles on right.  
481.5—WEAF New York—6:30  
4, dinner music; 8, Cities Service hour; 9, an evening in Paris; 9:30, Tunesful Troupe; 10, education in National Life; 11, dance music.  
484.5—WJZ New York—6:30  
8, Tunesful Troupe; 7, Great Moments in History; 7:30, Dixie Circus; 8, old dances; 8:30, Quakers; 10:30, Fifth Avenue Knights; 11, slumber music.  
422.5—WOR Newark—7:30  
4, Musings, newscastings, business; 7:30, sports talk, news; 8:10, stage stuff, dinner concert; 8:45, talk, orchestra; 7:30, Marie D. King; 8, Lone Star Rangers; 9, True Story hour; 10, United Open Co.; 11, news, dance music.

Paris: 820, Tunesful Troupe; 11, slumber music.  
472.5—WSB Atlanta—6:30  
7, orchestra; Dixie Circus; 8, old dances, Quakers; 11:45, Hawaiian ensemble.  
340.7—WJAX Jacksonville—6:30  
7:15, children's period, orchestra; 8, recital program.  
321.4—WHAS Louisville—7:30  
7:30, Dixie Circus; 8, old dances, Quakers.  
324.3—WRM Nashville—6:30  
7, orchestra, newscasting; 7:30, Dixie Circus; 8, old dances, Quakers; 10, symphony orchestra.  
202.6—WRUF, Univ. of Florida—1480  
10a, homemakers hour and music; 10:30a, educational features; announcements and music; 1, noon-time program, one and a half hours, weather forecast, agricultural information, announcements, music; 4, "University of the Air," one hour.  
515.3—WFLA Clearwater—6:30  
12-1, popular music, talks, time, newscasting, weather reports; 8:30.

Tampa weather bureau forecast; 8:30, organ recital from Peace Memorial church; 9:15, program sponsored by this Beaumont studios of New Port Richey; 10, concert standard time; 10:01, band program; 11, all dance radio rambles; 12, bell busy.  
425.3—WJW Cincinnati—100  
6:30, dinner; 7, orchestra, educational series; 7:30, Dixie Circus; 8, old dances, Quakers; 10:30, dance, health talk; 11, Anne-Army slumber hour.  
301.5—WSAI Cincinnati—6:30  
4, orchestra, safety club; 7, singing school; 8, Cities Service hour; 9, home program; 9:30, Career of Bonaldi; 10, feature; 11, dance music.  
399.8—WTAM Cleveland—7:30  
4, orchestra; 7:30, musical programs; 8, Cities Service hour; 9, Friday frolic; 10:30, dance music.

Nov. 9, 1973

Tampa Daily Times  
2.0 wheels

401.5—WFLI-WSLW Philadelphia—780  
7, orchestra; 8, Cities Service hour; 9, an evening in Paris; 9:30, Tunesful Troupe; 10, feature.  
515.6—KDKA Pittsburgh—6:30  
7, address, tour; 7:30, Dixie Circus; 8, old dances, Quakers; 10:30, dance music.  
329.5—WGY Schenectady—7:30  
6:30, dinner music; 7, dialogue, dinner music; 7:30, G. E. program; 8:30, WGY players; 9, an evening in Paris; 9:30, Tunesful Troupe.  
332.1—WRZ Springfield—9:00  
4, orchestra; 7, Rambles, Dixie Circus; 8, old dances, Quakers; 10, symphony.  
408.5—WRC Washington—640  
4, dinner music; 7, orchestra; 8, Cities Service hour; 9, an evening in

Home of Paramount Pictures



LAST TIMES

MARY PICKFORD

"MY BEST GIRL"

And OUR GANG COMEDY TOMORROW ONLY TOM TYLER

FRANKER THEATRE



## TOP END

Craig Healy, 66 Cove Street, Pawtucket, RI 02861

1600-1800 KHz Range Times are GMT Deadline: Last Sat. of Month

oMarch 1985...Loggings:

1605 NEW HAMPSHIRE Conway 2227 5/1 White Mountain N.F. TIS (Foss)  
 1610 ??? 1/28 unid TIS w/ bits of audio by woman. (Hardester)  
 1610t ANGUILLA The Valley 0156-0230 2/10 Caribbean Beacon poor w/re1., tent.  
 ID and "Radio A...." ment. (Garcia)  
 1613 GUATEMALA Rabinal 0610 1/26 RAB good. (Waggoner)  
 1614 ??? 0218 11/6 KA83348 (Foss)  
 1614 ??? 0103 11/25 O447 (Foss)  
 1615 ??? 0220 11/6 KA84028 (Foss)  
 1618 ??? 0504,0508 2/4 KA83771 fair. (Healy)  
 1619 ??? 0607 1/26 UBT weak. (Waggoner)  
 1621 ??? 0512 2/4 KA83774 poor. (Healy)  
 1623 ??? 0225 12/10 KA83776 (Foss)  
 1623 ??? 0146 11/5 KA83777 (Foss)  
 1624 ??? 1/28 Random dots/dashes, nothing understandable. (Hardester)  
 1628 ??? 0205 1/23 HSN weak. (Waggoner)  
 1630 ??? 1/28 "Pinging" sounds w/o order or pattern. Fair. (Hardester)  
 1630 ??? 0247-0248 2/10 Unid station w/ University of Kentucky basketball  
 network stuff. Probably a spur or harmonic. (Garcia)  
 1630 ??? 0222 11/6 KA83326 (Foss)  
 1632 ??? 0201 11/17 KA83785 (Foss)  
 1633 ??? 0243 11/6 KA83786 (Foss)  
 1633 ??? 0218 11/5 P446 (Foss)  
 1633 ??? 0240 11/6 O285 (Foss)  
 1633 ??? 2238 11/13 M472 (Foss)  
 1633 ??? 2240 11/13 D445 (Foss)  
 1634 ??? 0245 12/2 L313 (Foss)  
 1634 ??? 0243 12/2 R110 (Foss)  
 1634 ??? 0240 11/16 O221 (Foss)  
 1634 ??? 2230 11/13 V382 (Foss)  
 1634 ??? 0238 11/16 K290 (Foss)  
 1634 ??? 0238 11/16 G59 (Foss)  
 1634 ??? 2207 11/10 F59 (Foss)  
 1634 ??? 2210 11/10 I384 (Foss)  
 1634 ??? 0239 10/22 KA80051 (Foss)  
 1634 ??? 2215 11/10 B445 (Foss)  
 1635 ??? 0521 2/4 L313 and dash. (Healy)  
 1635 ??? 2209 11/10 R447 (Foss)  
 1635 ??? 2219 11/10 O183 (Foss)  
 1635 ??? 2137 12/19 L447 (Foss)  
 1635 ??? 2137 12/19 W182 (Foss)  
 1635 ??? 2137 12/19 L373 (Foss)  
 1635 ??? 0214 12/29 B444 (Foss)  
 1635 ??? 0214 12/29 F383 (Foss)  
 1636 ??? 0234 11/5 KA81192 (Foss)  
 1636 ??? 0231 11/5 KA81184 (Foss)  
 1636 ??? 0101 11/25 J314 (Foss)  
 1636 ??? 2218 11/10 V441 (Foss)  
 1636 ??? 2221 11/10 R258 (Foss)  
 1636 ??? 2223 11/10 W182 (Foss)  
 1636 ??? 0220 12/10 C311 (Foss)  
 1636 ??? 0115 1/14 A449 (Foss)  
 1637 ??? 0252 11/6 KA81194 (Foss)  
 1637 ??? 2229 12/15 U446 (Foss)  
 1637 ??? 2148 11/10 F288 (Foss)  
 1637 ??? 2148 11/10 L373 (Foss)  
 1637 ??? 2148 11/10 U449 (Foss)  
 1637 ??? 2149 11/10 Z442 (Foss)  
 1637 ??? 2150 11/10 F287 (Foss)  
 1637 ??? 2151 11/10 N443 (Foss)  
 1637 ??? 2154 11/10 O181 (Foss)  
 1637 ??? 2155 11/10 G447 (Foss)  
 1637 ??? 2233 11/13 E284 (Foss)  
 1638 ??? 0251 11/6 KA81185 (Foss)  
 1638 ??? 0253 11/6 KA83333 (Foss)  
 1638 ??? 0153 11/25 S340 (Foss)  
 1638 ??? 2241 11/13 I448 (Foss)  
 1638 ??? 2241 11/13 L446 (Foss)  
 1638 ??? 2240 11/13 O290 (Foss)

THIS SPACE FOR RENT

1638 ??? 0305 11/6 V311 (Foss)  
 1638 ??? 2206 11/10 I55 (Foss)  
 1639 ??? 0304 11/6 KA83334 (Foss)  
 1641 ??? 2158 11/10 P372 (Foss)  
 1641 ??? 2159 11/10 U450 (Foss)  
 1641 ??? 0229 11/6 KA83794 (Foss)  
 1641 ??? 0233 12/2 O384 (Foss)  
 1641 ??? 0236 12/2 O450 (Foss)  
 1641 ??? 0247 11/16 O448 (Foss)  
 1641 ??? 0248 11/16 Z190 (Foss)  
 1641 ??? 0112 1/14 N322 (Foss)  
 1641 ??? 0113 1/14 O450 (Foss)  
 1642 ??? 0513,0517 1/31 H386 fair (Healy)  
 1642 ??? 0515,0519 1/31 O384 and dash, fair. (oh 384, not zero 384) (Healy)  
 1642 ??? 0520 1/31 R372 and dash, fair. (Healy)  
 1642 ??? 0142 11/5 NV43 (Foss)  
 1642 ??? 0145 11/13 L450 (Foss)  
 1642 ??? 2202 11/10 O445 (Foss)  
 1642 ??? 2230 11/10 R280 (Foss)  
 1642 ??? 2232 11/10 S190 (Foss)  
 1642 ??? 2233 11/10 O316 (Foss)  
 1642 ??? 2237 11/10 D57 (Foss)  
 1642 ??? 0123 11/20 J451 (Foss)  
 1642 ??? 0039 12/5 U448 (Foss)  
 1642 ??? 0039 12/5 A432 (Foss)  
 1642 ??? 0055 12/16 N56 (Foss)  
 1642 ??? 0227 11/6 H374 (Foss)  
 1642 ??? 0153 11/5 B383 (Foss)  
 1643 ??? 0151 11/5 C321 (Foss)  
 1643 ??? 2203 11/10 Q17 (Foss)  
 1643 ??? 2204 11/10 O442 (Foss)  
 1644 ??? 0500,0504 1/31 KA83797 good (Healy)  
 1645 ??? 1/28 "Pinging" (like 1630) fair. (Hardester)  
 1648 ??? 1/28 Geiger counter-like sound, no pattern. Poor. (Hardester)  
 1648 ??? 0209 11/5 KA83343 (Foss)  
 1648 ??? 0207 11/5 KA81193 (Foss)  
 1648 ??? 0203 11/5 KA83800 (Foss)  
 1649 ??? 0218 12/10 KA81164 (Foss)  
 1650 ??? 2214 11/10 I373 (Foss)  
 1650 ??? 0116 11/20 E448 (Foss)  
 1650 ??? 0117 11/20 D448 (Foss)  
 1650 ??? 0117 11/20 S441 (Foss)  
 1650 ??? 0118 11/20 R447 (Foss)  
 1650 ??? 0120 11/20 M185 (Foss)  
 1650 ??? 2229 12/15 I186 (Foss)  
 1650 ??? 2231 12/15 B381 (Foss)  
 1650 ??? 2232 12/15 X448 (Foss)  
 1650 ??? 0044 11/18 I320 (Foss)  
 1652 ??? 2228 12/15 C187 (Foss)  
 1653 ??? 0212 12/6 P446 (Foss)  
 1662 ??? 1/28 KA84075 mixing w/ Loran-type station. (Hardester)  
 1665 ECUADOR Lago Agrio 0646 1/26 LAG weak. (Waggoner)  
 1679 ??? 0208 11/17 I2 (Foss)  
 1680 ??? 1/28 "Pinging" (like 1630) fair. (Hardester)  
 1685 COLOMBIA Mercaderes 1056 1/7 MER weak. Also 1055 1/21 (Peterson)  
 1685 COLOMBIA Mercaderes 0600 1/26 MER very good. (Waggoner)  
 1700 ??? 1/28 "Pinging" (like 1630) fair. (Hardester)  
 1714 ??? 0900 1/26 Cubic Argo (Cowart)  
 1716 ??? 0900 1/26 ET or Cubic Argo (Cowart)  
 1740 ??? 1/28 Loran-A type sound, like 1662. (Hardester)  
 1746 ??? 0900 1/26 Decca HiFix (Cowart)  
 1746 ??? 1/28 Modulated pulses of 1 tone/second. (Hardester)  
 1747 ??? 0900 1/26 Decca HiFix (Cowart)  
 1748 ??? 0900 1/26 Decca HiFix (Cowart)  
 1760 ??? 1/28 Random modulated pulses. (Hardester)  
 1764.8 ??? 0900 1/26 Cubic Argo (Cowart)  
 1768 ??? 1/28 Random modulated pulses. (Hardester)  
 1771 ??? 0900 1/26 Cubic Argo (Cowart)

## Credits:

Russ Foss Hiram, ME FRG7700, 650' LW  
 Art Peterson Richmond, CA FRG-7, R. West Loop, 300' LW  
 Joey Garcia Key West, FL CR-2021, 30' LW  
 Daryl Waggoner Harrison, AR R4A, LW  
 Mike Hardester Modesto, CA R-1000, R. West Loop  
 Jack Cowart Jacksonville, FL NRD-515A, Sony AN-1 antenna



# Krishnas broadcast in

The Register E15

## Mormon country

By Iver Peterson  
New York Times

SPANISH FORK, Utah — The announcer's voice is Los Angeles smooth, but his sign-off message is a little tentative.

"This is KHQN 1480, message radio in Spanish Fork, and we're honored to be here and I hope you're honored to have us, because frankly we haven't had any negative feedback, but if you do feel negative towards us, call us and let us know why," Jay Wagner said.

Beth Johnson, a clerk for the city of Spanish Fork, is not about to call the station.

"All I know is that they stopped doing the high school baseball games on the radio," she said. "Now we just try to ignore them."

It might be easy to ignore the country's only full-time Hare Krishna radio station if it was broadcasting from Los Angeles or New York City.

But KHQN stands out in Utah, where the Mormons of the Church of Jesus Christ of Latter-day Saints, not members of the International Society for Krishna Consciousness, set the tone in dress and music and behavior.

This is a place where people probably are more used to hearing a religious broadcast open with the Tabernacle Choir singing "Come, Come Ye Saints" than KHQN's sunrise meditations with Sri A.C. Bhaktivedanta Swami Prabhupada, the sect's founder and leader, or hints on "eating healthy and karma-free."

Yet Wagner, whose Krishna name, Jaya Jagadisha Das, means The Glories of the Lord Are Universal, said he has encountered curiosity and sympathy among some of his Mormon listeners, as well as those who "probably wish we would just disappear," he said.

In May, the station became the property of Chris Warden, a successful Los Angeles vegetarian food caterer who also produces Krishna-consciousness radio programs for limited broadcast in Southern California.

He had been looking for an affordable flagship radio station for his Krishna faith for some time, Wagner said, when KHQN and its

modest 1,000-watt signal became available for about a third of the usual \$1 million price for a small AM radio station.

Since then, Wagner said, he has found that Mormonism and Krishna consciousness are not entirely at odds.

Both religions forbid tobacco and alcohol and oppose abortion, for example.

The strictures of Brigham Young, the founder of Utah Mormonism, who urged his followers to "eat but little meat," finds sympathy among Krishna followers, who are strict vegetarians, even if few Mormons pay attention to Young's advice.

And the Krishna religion's strict rules against sex for anything but procreation, Wagner said, are echoed in Mormon teachings on matters of the flesh.

Another thing the Mormon and Krishna religions have in common, along with other relatively young faiths, is an aggressive policy of missionary work to convert others.

"The LDS have always been mission-oriented," said Clyde Swenson, a councilor in one of the five Mormon wards in this town of 10,000 people south of Provo. "So we're used to seeing people going out for their church."

Yet Wagner said conversion is not the reason he, his British-born wife, Nanda, and the handful of other unpaid volunteers are putting in 16-hour days at the station.

"The message that we're preaching is not my religion or your religion, but harmony," he said. At the same time, he said he was glad to hear from listeners "who are not completely satisfied with the Mormon faith."

So far, the voice of Krishna consciousness has relied heavily on broadcasts of programs of lectures and music recorded by church members elsewhere, including modern soft-rock songs whose lyrics, Wagner said, have "messages."

But soon the station hopes to be-

gin more locally produced programming, including a comparison of the Mormon and Krishna faiths.

"It may help people understand us better and not be afraid of us," he said. "We certainly don't want anyone to be afraid of us."

For his part Wagner, a Los Angeles native who said he was raised "a member of the church of universal atheism," does not shave his head in the Krishna style and limits his Indian-style dress to cotton tunics instead of the saffron robes. "I want to be able to relate to the local people," he said.

The local people have taken KHQN's shift from country rock to "exotic Asian music" in stride, City Manager David A. Oyler said.

"You say Hare Krishna and all you think of are shaved heads and those people coming up to you in airports, but we haven't seen anything like that here," Oyler said.

"Anyway, we already have Baptists, we have Jehovah's Witnesses, so we don't have any problem here with people being different."



radio drama is. Thorsness reminded everyone there was still an audience for radio drama. He was aware KNX's audience increased from 16,000 to well over 90,000 shortly after 9 p.m. when the squeaking door opened for E.G. Marshall's next macabre tale on Mystery Theater. It went on for nine full years. That's only a handful next to Heartbeat's 29-year-run.

"Finally, Don Hill's 771st program for the Salvation Army, concluded. No one wanted to go home after this one. But finally realizing that this was it, the cast members drifted toward the door and rode the elevator down to the lobby of the RCA Building. Then the group strolled out onto Sunset Boulevard to chat another few minutes before going their various ways. An era had ended."

"Ben Wright and Daws Butler played 'Casper and Porter.' This is John A. Boyle's 105th Heartbeat script. Two elderly gentlemen friends face a serious dilemma. Due to budgetary difficulties, they find their stay at the army necessarily cut short. This is Boyle's ironic touch, driving the finality of this last play home to the listeners. For emphasis, Boyle has one of the characters die in his story."

"Chuck Howerton and Linda Gary portray Salvation Army officers. Gary portray Salvation Army officers. Gary observed that kids today respond to different kinds of imagery and don't know what ra-

- From Page 10 -

sound effects for radio since 1937 when he joined CBS in Hollywood. His most memorable: a ravenous board of huge rats attacking a lighthouse in "Three Skeleton Key" for the Escape series.

"In less than two hours, one 30-minute taping was over. All that remained was to add the music bridges and narrative elements supplied by MacDonald Carey via a later recording session. The performers left to make way for the afternoon group.

# STATION PROFILE

Tony Fitzherbert, 356 Jackman Avenue, Fairfield, CT 06430



## RESEARCH

### WLS AM COVERAGE

The map below indicates the area "covered" by the BIG 89 signal. The inner circle represents 0.5 millivolts per meter. The outer circle represents 0.1 millivolts per meter.



Eleven County Metro Area (effective Fall '84) includes: Cook, IL, DuPage, IL, McHenry, IL, Kane, IL, Lake, IL, Grundy, IL, Will, IL, Kendall, IL, Lake, IN, Porter, IN, and Kenosha, WI (AREA SHADED ON MAP). Total Survey Area (effective Fall '83) is indicated by slashes (//).



WLS

## CORRESPONDENCE STICKERS

Three weeks before Radio Movin' Day, every department at WLS and Prairie Farmer was instructed to attach an 890 Label to all outgoing correspondence. The first series of these were worded for advance use.

On March 28, all departments were furnished the second sticker shown below: NOW WLS is at a new place on your dial, 890. It is planned to use these for about one month of operation on the new frequency. Ten thousand of each label were printed.

## RADIO GUIDE ADVERTISEMENTS

Three advertisements, 42 lines on one column, were run in Radio Guide, issue covering March 29 to April 4, in cooperation with WENR. These were run on the program schedule pages, one with the programs for Saturday March 29, and others with the Tuesday and Thursday programs of the week following.

Now!  
**890**

WLS-WENR are now heard  
at a new place on your dial—  
890 KILOCYCLES

**WLS-WENR**  
CHICAGO, ILLINOIS

CUSTOM RETURN MAIL LABELS 100 Computerized Labels. Having trouble with returns from Radio Stations? Why not enclose with your stamp a return label, this way the station's job will be easier and your returns should improve. \$1.75 for 100 computerized Return Mail Labels [Just like the ones on the back of your DX NEWS magazine (in place of due date, your country is added below your city/state line)]



Mark Connelly -- WALION DX Labs -- 31 DEC 1984

Numerous passive and active receiving-antenna tuners have been developed recently: most embody the idea of simplicity and ease of construction. Yaesu, MFJ, McKay-Dymek, and Grove have all offered such devices commercially to shortwave and medium-wave DX enthusiasts. A common practice is to use one tuning capacitor (often the common 18 to 365 pF air-variable) and numerous inexpensive molded inductors generally mounted on a ganged rotary switch which selects the various tuning ranges. The use of inductive-dividers allows the impedance-transfer from high (at the tank circuit) to low/medium (at the tuner's output).

Although higher Q and greater output may sometimes be obtained with a tuner using hand-wound coils (having link windings and tapped main windings) and using two or more variable capacitors (e. g. Bob Foxworth's excellent passive tuner of early '70s vintage), experience has shown that even the best passive tuner cannot match the Q and gain of an active, regenerative tuning unit.

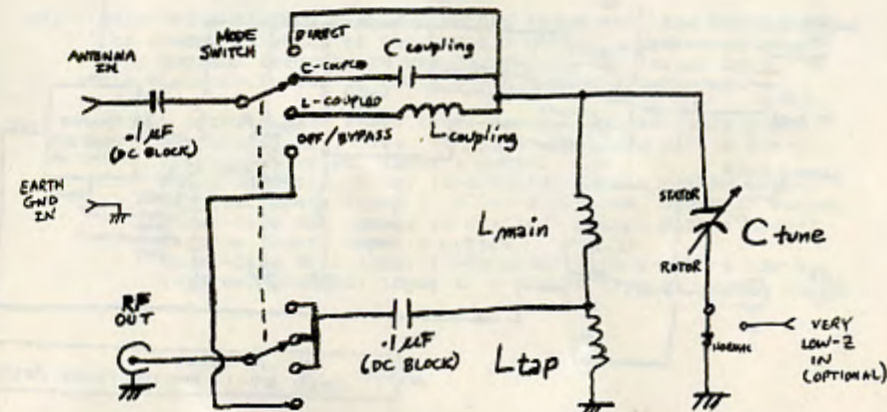
Aside from specialised cases demanding super Q and gain, there is a considerable need for moderate Q tuners having the benefits of low cost, simplicity of construction, and ease of operation.

The urban DXer, for instance, has a great difficulty with spurious responses (resulting from the poor strong-signal handling characteristics of many of today's receivers) when any wire more than a few feet in length is connected to the antenna jack. "Spurs" noted may be caused by AM, FM, & TV stations as well as by local utility, amateur, & CB transmitters. Even in rural locations, some receivers may generate images & spurs (chiefly because of overloading by potent international shortwave broadcast stations & RTTY/FAX/CW utility stations).

A tuner (pre-selector) goes a long way to eliminate these problems. "De facto" gain is accomplished even with a somewhat-lossy, loosely-coupled passive tuner at urban sites because considerably-longer aerials may be used before spurious signals become a problem. With an active tuner of relatively simple design, aerials as short as car whips can provide worthwhile DX: this is an important consideration for the space-limited DXer in the city.

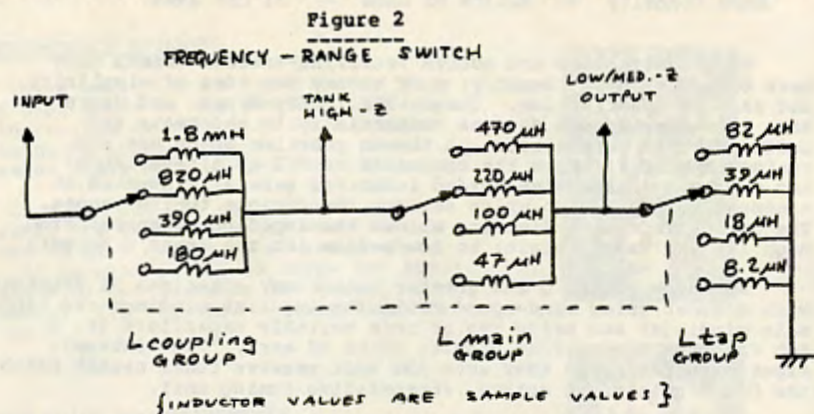
Two basic designs were chosen to be modelled for computer-analysis - one passive and one active. The passive design is represented by the schematic of Figure 1.

Figure 1





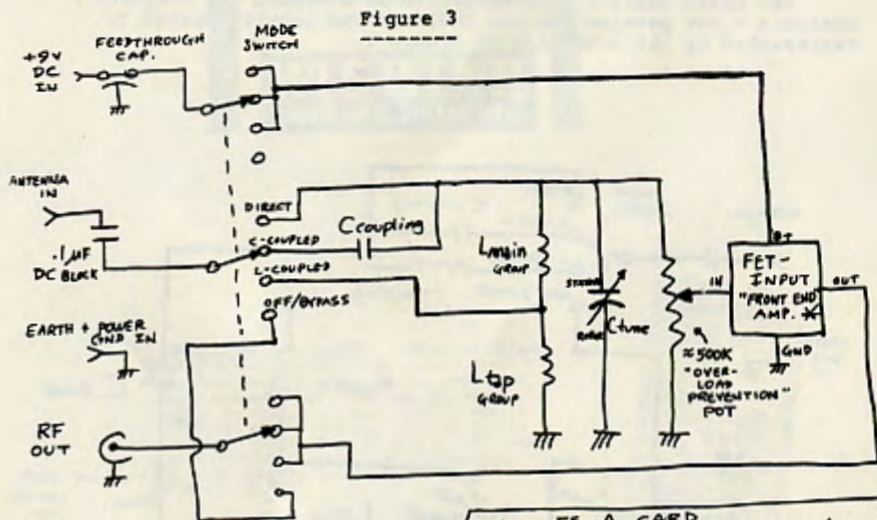
The coils shown (Lcoupling, Lmain, & Ltap) are actually coil-groups mounted on a rotary switch. Figure 2 illustrates this idea.



Experimentation has shown that good passive-tuner results are obtained with a wide variety of input antenna lengths and output load impedances if the coupling inductor (for loosely coupling inductively-reactive antennae) is approximately 3.5 to 5 times the value of the main inductor and if the main inductor is about 5 to 8 times the value of the tap (output) inductor. Increasing these ratios results in greater signal loss (although, perhaps, higher Q) whereas decreasing the ratios reduces the varieties of input & output impedances with which the tuner will work.

The coupling capacitor chosen (for loosely coupling capacitively-reactive antennae) should be about 7% to 20% of the maximum value of the tuning capacitor. 47 pF is a good overall coupling-capacitor choice to be used with a 18 to 365 pF tuning cap.; you might want to go a bit lower for active tuner applications (e. g. 33 pF) and a bit higher (e. g. 62 pF) for longwave (F < 500 kHz) passive tuners.

Figure 3 illustrates the active tuner circuit being considered for computer-aided design. Note that the tap inductor group plays an input, rather than an output, role (no separate "Lcoupling" group is used).



\* E.G. FE-A CARD (SEE RT-1 REMOTE TUNER ARTICLE 1.)

The TUNER program - how it works:

In modelling the circuits of Figures 1 & 3, several assumptions were made:

1. We know the overall frequency range desired.
2. We know the minimum & maximum capacitance value of the variable capacitor to be used.
3. Entry of stray capacitance should be possible. (This is a ballpark figure entered to account for capacitance from tank-high to chassis ground caused by component layout & wiring.)
4. We know the value of the input coupling capacitor (typically 12% of the tuning cap.'s maximum value).
5. Inductors chosen by the program should be standard-value components (e. g. 18 uH, 220 uH). Coupling inductors are to be approximately 4 times the values of the corresponding main inductors; main inductors are to be approximately 6 times the values of the corresponding tap inductors.
6. Frequency-ranges should overlap slightly from one coil-switch position to the next even with worst-case input & output loading conditions. Nevertheless, the program should endeavour to use the fewest number of inductors and coil-switch positions required to make a working tuner design.
7. Desired output should be written to a text file on disk; such a file could be edited with suitable word-processing software (e. g. EDT), merged with other files, printed to paper or CRT, etc. [For those without this file-management facility, minor modification of the program will enable direct output to a lineprinter].
8. Desired output should display all input parameters (1, 2, 3, & 4 above) and the output of inductor values chosen for active & passive models (accompanied by full frequency-range data for L-coupling & C-coupling).
9. Minimum & maximum tuning capacitance should be adjusted somewhat (a) to allow for slight movement of the capacitor beyond the rated end-of-range frequency position, and (b) to compensate for variations in actual tuning capacitor values from their published specifications. The program's formula calculates a "useful" range of  $((365-10)*0.1)+10$ , or 45.5 pF minimum to  $(365*0.8)=292$  pF maximum for the standard 10 to 365 pF variable capacitor. Such adjustment reduces the likelihood of gaps between tuning ranges.
10. Worst-case minimum frequencies are those made the highest by the characteristics of the input & output impedances; worst-case maximum frequencies are those made the lowest by the characteristics of the input & output impedances.

Simple circuit math shows that, in the passive tuner case:  
 Worst-case min. freq. (L-coupled) occurs with a low-Z (approx. shorted) input & output.  
 Worst-case min. freq. (C-coupled) occurs with a high-Z (approx. open) input & a low-Z (approx. shorted) output.  
 Worst-case max. freq. (L-coupled) occurs with a high-Z (approx. open) input & output.  
 Worst-case max. freq. (C-coupled) occurs with a low-Z (approx. shorted) input & a high-Z (approx. open) output.



For active tuners, output impedance is not an important frequency-range-determining consideration because of the buffering provided by the PFT-input amplifier circuit. Input (antenna) loading sets the worst-case conditions for the active tuner:  
 Worst-case min. freq. (L-coupled) occurs with a low-Z (approx. shorted) input.  
 Worst-case min. freq. (C-coupled) occurs with a high-Z (approx. open) input.  
 Worst-case max. freq. (L-coupled) occurs with a high-Z (approx. open) input.  
 Worst-case max. freq. (C-coupled) occurs with a low-Z (approx. shorted) input.

11. The program should be written in a manner that, upon examining the remarks in the listing, circuit-math formulae & design considerations used should be evident to anyone who has even a relatively-limited electronics background.

#### Program Listing

The following program is written in DEC PDP-11 BASIC-PLUS-2 V2.1-00.

(begin listing)

```

1 PRINT\PRINT "TUNER.B2S"\PRINT"Receiving Tuner Design Aid"
2 PRINT "WALION DX Labs / Software Division / 31 DEC 1984"\PRINT
3 DIM V(12),L(12),F(4),C(4)
4 K=159154.94\REM (1000000/(2*PI))
5 U2$=""
6 FOR I=1 TO 72\U2$=U2$+""\NEXT I
12 REM ** STANDARD INDUCTOR VALUES **
13 V(1)=1.2
14 V(2)=1.5
15 V(3)=1.8
16 V(4)=2.2
17 V(5)=2.7
18 V(6)=3.3
19 V(7)=3.9
20 V(8)=4.7
21 V(9)=5.6
22 V(10)=6.8
23 V(11)=8.2
24 V(12)=10
26 PRINT\INPUT "DATA OUTPUT FILE NAME";S$
27 OPEN S$ FOR OUTPUT AS FILE #1
28 D$="A"
29 J=13\M=6\T=0\Z=0
30 IF D$="P" THEN PRINT #1,U2$\GO TO 50
32 INPUT "Minimum frequency, kHz";FMIN
33 INPUT "Maximum frequency, kHz";FMAX
35 INPUT "(40 pF typical) Stray C, pF";CS
37 INPUT "input coupling capacitor, pF";CC
38 CSH=CC+CS\REM shunt-C for C-coupling
39 INPUT "Minimum value of tuning capacitor, pF";CMIN
40 INPUT "Maximum value of tuning capacitor, pF";CMAX
41 REM +++ Practical min. Ctune will be set to CMIN+(0.1*(CMAX-CMIN)) +++
42 CMIN2=CMIN+(0.1*(CMAX-CMIN))
43 REM +++ Use 80% of maximum tuning capacitance +++
44 REM +++ to account for component variation. +++
45 CMAX2=0.8*CMAX
46 C(4)=CMIN2+CS\REM min. equiv. C (L-coupling)
47 C(2)=CMIN2+CSH\REM min. equiv. C with shorted input (C-coupling)
48 C(1)=CMAX2+CS\REM max. equiv. C with open input (C-coupling)
49 C(3)=C(1)\REM max. equiv. C (L-coupling)
50 GOSUB 1000\REM get next L value
55 GOSUB 1950\REM calculate frequencies
57 IF Z=0 AND F(3)<FMIN THEN 50
59 IF Z=0 THEN GOSUB 3000\GO TO 50
61 Z=0\A1=F(2)\A3=F(4)\GOSUB 2000
62 IF F(2)>FMAX THEN 500

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63 GOSUB 1000
65 GOSUB 1950
66 IF Z<>0 THEN 61
67 IF F(1)<A1 AND F(3)<A3 THEN Z=0\GO TO 63
69 GOSUB 3000\GO TO 63
100 GO TO 50
500 IF D$="A" THEN D$="P"\GO TO 29
510 PRINT #1\PRINT #1,U2$\PRINT #1,U2$\CLOSE #1
520 PRINT\Q=0\INPUT"(1 = YES) Generate another file";Q
540 IF Q=1 THEN 26
560 GO TO 10000
1000 REM ##### Inductor Table Subroutine #####
1020 J=J-1
1030 IF J=0 AND M=-2 THEN 500
1040 IF J<1 THEN J=J+12\M=M-1
1060 L=V(J)*(10^M)
1100 RETURN
1500 REM ##### Tap & Coupling Inductors Subroutine #####
1520 G=J/MM=M
1540 IF G<10 THEN G=J+3/MM=M-1\GO TO 1580
1560 G=J-9
1580 L2=V(G)*(10^MM)\REM Tap L
1600 G=J/MM=M
1620 IF G<6 THEN G=J+7\GO TO 1660
1640 G=J-5/MM=M+1
1660 L3=V(G)*(10^MM)\REM Coupling L
1680 RETURN
1800 REM ##### Design Parameter Print-out Subroutine #####
1805 PRINT #1
1807 IF D$="P" THEN 1800
1810 PRINT #1," This is data file: ";S$
1815 PRINT #1," ( ";FMIN;" to ";FMAX;" kHz)"\PRINT #1
1820 PRINT #1," The following calculations are based upon:"
1840 PRINT #1," Tuning C = ";CMIN;" pF" * "pF"
1860 PRINT #1," Coupling C = ";CC;" pF" * "Stray C = ";CS;" pF"
1870 PRINT #1\PRINT #1," Active Configuration"\GO TO 1900
1880 PRINT #1," Passive Configuration"
1900 PRINT #1
1912 U$=" Main L Freq.Range, kHz Freq.Range, kHz Tap L"
1913 IF D$="P" THEN U$=U$+" Coupling L"
1914 PRINT #1, U$
1915 U$=" uH (C coupling) (L coupling) uH"
1916 IF D$="P" THEN U$=U$+" uH"
1917 PRINT #1, U$
1920 UU=3+LEN(U$)
1921 U$=""
1922 FOR I=1 TO UU
1923 U$=U$+"-"
1924 NEXT I
1930 PRINT #1, U$
1940 RETURN
1950 REM ##### Math Subroutine #####
1952 IF D$="A" THEN 1970
1955 REM PASSIVE
1957 F(1)=K/((L*C(1))^0.5)\REM Shorted Output (C-coupled)
1959 F(2)=K/((L*1.2*C(2))^0.5)\REM Open Output (C-coupled)
1961 F(3)=K/((L*0.8*C(3))^0.5)\REM Shorted Input & Output
1963 F(4)=K/((L*1.2*C(4))^0.5)\REM Open Input & Output
1965 GO TO 1980
1970 REM ACTIVE
1972 F(1)=K/((L*1.2*C(1))^0.5)\REM (C-coupled)
1974 F(2)=K/((L*1.2*C(2))^0.5)\REM (C-coupled)
1976 F(3)=K/((L*C(3))^0.5)\REM Shorted Input
1978 F(4)=K/((L*1.2*C(4))^0.5)\REM Open Input
1980 RETURN

```



```

2000 REM ##### Main Print-Out Subroutine #####
2010 IF T=0 THEN GOSUB 1800
2020 T=1
2030 GOSUB 1500
2040 X=L\GOSUB 2300
2050 U$=U1$
2060 U1$="##### 'L#####"
2070 U$=U$+U1$+U1$+" "
2080 X=L2\GOSUB 2300
2090 U$=U$+U1$+" "
2095 IF D$="A" THEN 2130
2100 X=L3\GOSUB 2300
2110 U$=U$+U1$
2120 PRINT #1% USING U$, L;F(1);"-";F(2);F(3);"-";F(4);L2;L3\GO TO 2200
2130 PRINT #1% USING U$, L;F(1);"-";F(2);F(3);"-";F(4);L2
2200 RETURN
2300 REM ##### Number-Formatting Subroutine #####
2310 U1$="##### "
2320 IF X<10 AND X>=1 THEN U1$="#####.# "
2330 IF X<1 AND X>=.1 THEN U1$="#####.## "
2340 IF X<.1 THEN U1$="#####.### "
2370 RETURN
3000 REM ##### Drop-Back Subroutine #####
3020 Z=Z+1
3040 IF J<11 THEN J=J+2\GO TO 3100
3060 J=J-10\M=M+1
3100 RETURN
10000 END

```

(end of program listing)

Sample Output File Print-Outs

This is data file: LWCOILS.TXT  
( 140 to 560 kHz)

The following calculations are based upon:  
Tuning C = 10 to 365 pF  
Coupling C = 62 pF \* Stray C = 40 pF

Active Configuration

Main L uH	Freq.Range, kHz (C coupling)	Freq.Range, kHz (L coupling)	Tap L uH
3900	127.7 - 191.6	139.9 - 251.6	600
1800	187.9 - 282.0	205.9 - 370.3	330
820	278.5 - 417.8	305.0 - 548.7	150
390	403.8 - 605.8	442.3 - 795.6	60

Passive Configuration

Main L uH	Freq.Range, kHz (C coupling)	Freq.Range, kHz (L coupling)	Tap L uH	Coupling L uH
5600	116.7 - 159.9	130.5 - 210.0	1000	22000
3300	152.1 - 208.2	170.0 - 273.5	560	12000
1800	205.9 - 282.0	230.2 - 370.3	330	6800
1000	276.2 - 378.3	308.8 - 496.9	180	3900
560	369.1 - 505.5	412.7 - 664.0	100	2200
330	480.8 - 658.5	537.6 - 864.9	56	1200

\*\*\*\*\*

This is data file: MWCOILS.TXT  
( 475 to 1900 kHz)

The following calculations are based upon:  
Tuning C = 10 to 365 pF  
Coupling C = 56 pF \* Stray C = 40 pF

Active Configuration

Main L uH	Freq.Range, kHz (C coupling)	Freq.Range, kHz (L coupling)	Tap L uH
390	403.8 - 618.5	442.3 - 795.6	60
180	594.3 - 910.4	651.1 - 1171.1	33
82	880.5 - 1348.8	964.6 - 1735.2	15
39	1276.8 - 1955.8	1398.7 - 2516.0	6.8

Passive Configuration

Main L uH	Freq.Range, kHz (C coupling)	Freq.Range, kHz (L coupling)	Tap L uH	Coupling L uH
470	402.9 - 563.4	450.5 - 724.8	82	1000
270	531.6 - 743.3	594.3 - 956.2	47	1000
150	713.2 - 997.3	797.4 - 1202.9	27	560
82	964.6 - 1348.8	1078.4 - 1735.2	15	330
47	1274.1 - 1781.6	1424.5 - 2291.9	8.2	100
27	1681.0 - 2350.5	1879.4 - 3023.9	4.7	100

\*\*\*\*\*

This is data file: TBCOILS.TXT  
( 1575 to 6300 kHz)

The following calculations are based upon:  
Tuning C = 10 to 365 pF  
Coupling C = 47 pF \* Stray C = 40 pF

Active Configuration

Main L uH	Freq.Range, kHz (C coupling)	Freq.Range, kHz (L coupling)	Tap L uH
33	1388.0 - 2197.2	1520.5 - 2735.2	5.6
15	2058.8 - 3258.9	2255.3 - 4057.0	2.7
6.8	3057.8 - 4840.2	3349.6 - 6025.5	1.2
3.3	4389.4 - 6948.1	4808.3 - 8649.5	0.56

Passive Configuration

Main L uH	Freq.Range, kHz (C coupling)	Freq.Range, kHz (L coupling)	Tap L uH	Coupling L uH
39	1398.7 - 2021.1	1563.8 - 2516.0	6.8	150
22	1862.3 - 2691.0	2082.1 - 3349.9	3.9	82
12	2521.5 - 3643.6	2819.1 - 4535.8	2.2	47
6.8	3349.6 - 4840.2	3745.0 - 6025.5	1.2	27
3.3	4808.3 - 6948.1	5375.9 - 8649.5	0.56	12

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