



DX NEWS

*the magazine of the
National Radio Club*

SINCE 1933

Volume 44 Number 26

Monday, June 20, 1977

STATIC FROM HQ

Jack Fisher

These are modern times, and just so we won't be left behind, we're changing a few things during the summer, starting with the signatures and by-lines which will appear on the various articles. We figure if you read them, it's only fair to say who wrote them, so we are and we will (and if you got that one, you're not doing badly!) Also, we've got a new column on the way starting with the July issue. The column (name still being decided) will cover all changes of calls, new stations, deletions, construction permits, schedule changes and the like and will be edited by well-known NRC'er Bruce Winkelman. By way of an intro, Bruce is 27, married but with no children. He's a pharmacist at a Greensboro, N.C. hospital and has been BCB DXing since 1969, which is also when he joined NRC. A native of Kansas, Bruce is a 1973 graduate of the University of Kansas. He does his EX with an HQ 180 A with 2 foot loop. In addition to the FCC and other information, Bruce will need any changes or format or other information you might have. Send it along to him at 3324 Kettering Place, Greensboro, N.C. 27410. Deadlines, etc. will be announced by Bruce in his first column next month!

THEY JOINED

A.W. Jones, 9090 Nagle Avenue, Arleta, Calif. 91331.
John Smith, 178 Frog Hollow Road, Churchville, Pa. 18966.
Roy L. Wilson Jr., Route 1 Box 272-D, Harles, Ga. 30514.
Jerry Robertson, 6065 Gardner Lane, Crosswell, Mich. 48422.
Col. Robert E. Blaschke, Ret., 394 St. Andrew Way, Lompoc, Calif. 93436.
George Hollison, 7128 Ethel Street, Apt. B, N. Hollywood, Calif. 91605.
Charles Loy, 76-12 45th Avenue, Flushing, N.Y. 11375.
Jean-Francois Aubertier, 1231 Collins Avenue, Ottawa, Ontario K1V 6C9, Canada.

LOOK INSIDE...

...for a review of the McKay-Dymek DR-22 receiver by John Clements, a new column with some of our mail by Pat Hartlage, verie signers from Ernie Cooper, a feature on Trans-Polar DX Revisited (again!) by R.J. Edmunds and all of the regular features you've come to depend on NRC for!

TELL US....

During the next month, between now and the July issue, LPC will be compiling a complete membership survey, which we'll run in July and hope will give you, as members, an opportunity to express your opinions about what is being done right, what is being done not so right, and what changes we should be making. Now is your chance to comment--so send your comments to us, as well as any issues you think we should include on the survey, and we'll make every effort to include them. Just send them along to LPC, P.O. Box 32125, Louisville, 40232.

Keep Thinkin Lincoln

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

WE GET LETTERS

Robert L. Cummins, Urbandale, Iowa wrote asking for missed DX News copies, which were gladly forwarded. Robert was one of several members accidentally "dropped" during the move to Louisville. We hope future issues will not be delayed.

J. W. Brauner, Punxsutawney, Pa. was disappointed with the May 23 issue. A collating problem at the printer omitted pages 3, 4, 17 and 18. He didn't get DX or LEAD, brief as they were. He did find the crystal set article interesting. A replacement bulletin has been mailed. He also indicated greater support of the members was needed. We, of course, agree. We would much rather use "tip value" material than clippings to bring the page count up to the number needed.

According to Richard Evans, Lakeside, Calif., a new group has been formed, The Radio Programme Collectors Association. The club is devoted to the collecting and preservation of radio broadcasts of the past, present and future. Samples of their bulletin are 40¢. For information write: RPCA, 10514 Caminito Baywood, San Diego, California 92126.

Gerald Koske, 10204 Thayer Road, Wonder Lake, Ill. 60097 tells us he has received a new batch of field effect transistors. They are matched pairs of 2N4416A FETS, available at \$8.00 per pair, postpaid First Class.

One "tradition" of former Publishing Committees lives on, hi! Most of our mail goes through without any problems, but the Post Office has been returning some DX News copies which should have been forwarded. Also, most of our members have notified us in advance of address changes, but we have had a rash of changes without any prior notice. Each address change notice from the Post Office as a result of our legend "address correction requested" costs us 25¢. If the Post Office is slow, we may get 2 or 3 notices before we can get the address plate changed.

Need equipment? In addition to our own DXCHANGE, several other sources of communications type gear include: Ham Trader "Yellow Sheets", P. O. Box 311, Sycamore, Ill. 60178; buyers & Sellers, P. O. Box 73, Boston, Mass. 02215 and Ham Exchange bulletin, P. O. Box 1826, Lubbock, Texas 79408. buyers & Sellers is a brokerage, the others list equipment available directly from individuals. We caution all to exercise care, however, when purchasing any equipment. The above is not an NRC endorsement but you may find some good equipment at reasonable prices.

Charles George of Dallas, Texas has sent in several clippings for DX News. Thanks. We need more technical/practical articles as well as more fill material. We urge you all to keep supporting DX News. Clippings used in DXN, by the way, listing no contributor, are from LPC.

Back issues needed by Russ Edmunds for the special library collection should be sent directly to kuss at 48 Lakeside Trail East, Kinnellon, N. J. 07405. Needed are single copies from Volume 41, issues 19, 23 and 25. Same volume, issues 22 and 30 are needed in two copies. From Volume 40, single copies of issues 2, 5, 6, 7, 9, 10 and 24.

Not going to make LINCOLN but still want to contribute to the convention's success? It's easy. Send items for auction with a friend or mail them pre-paid to the Neil G. Zank, 2445 "E" Street, Apt. 6, Lincoln, Nebraska 68510.

Membership renewals go to the Membership Center, P. O. box 118, Poquonock, Conn. 06064. Checks should be made to National Radio Club. Outside the U.S. members should send a money order payable in U.S. funds. Yearly dues in the U.S. and Canada are \$15, Airmail to Mexico and the Caribbean is \$18, Airmail to other areas is \$22 and Surface mail to all other areas is \$18. New member fee is \$1.

INTERNATIONAL DX DIGEST

Chuck Hutton
2114 Myrtle Lane no. 1
Decatur, GA 30033

- 540 ALGERIA Oran the best TA on 5/19; fair w/AA mx at 0400. (Connelly)
- 580 PUERTO RICO WKAQ dominant o/growl w/WKAQ jingle, then rapid fire SS talk; WTAG/FFC under 0413 5/22. (Connelly)
- 580 CUBA San Antonio de las Vegas CMW atop WEI w/man in SS, then circus type mx, //600,640, 720; third station behind (WARM or Columbia) 0411 5/22. (Connelly)
- 600 CUBA San German CMKV noted with mushy audio, blockbuster signal; man in SS 0410 5/22. (Connelly)
- 640 CUBA La Habana CMQ //740 w/George Harrison song, then SS mx 0257 5/22; R. Liberacion ID atop second LA and CBN 0330 5/22. (Connelly)
- 649 UNID het on low side of YVLH/WSM 0420 5/22. (Connelly)
- 650 VENEZUELA Maracay YVLH in a jumble w/fanfare, SS promo for stn, then flute or piccolo dance mx 0332 5/22. (Connelly)
- 710 COLOMBIA R. Super, HJNX Medellin noted on all nite MM 5/16 fm 0745-0810 GMT w/WOR on OC. Anybody know if this is the same station that used to be on 670 with the slogan "Radio Tricolor de Belle"? I have a 1967 v/l from them with the calls HJNX. WRTH lists two HJNX's now, one on 670, the other on 710, but in the frequency list the 670 is shown as HJPK in Medellin. (Cooper) Sorry, no info. (CH)
- 730 CUBA CMGN Colon loud w/messy sig, overmodulated audio with circus type steel band/calliope mx, then R. Habana ID and SS talk, //640 0405 5/22. (Connelly)
- 740 VENEZUELA YVNC R. Maracaibo atop CBL w/ID's 0438 5/22. (Connelly)
- 784 SENEGAL Dakar fair w/male AA talking and chanting 0005 5/14 during poor cx. (Connelly)
- 780 CUBA CMJN Camaguey loud w/comedy drama in SS 0255 5/22; dull sounding talk o/SS mx (possibly Cali) and other LA's 0403 5/22. (Connelly)
- 800 NETHERLANDS ANTILLES PJB Bonaire alone on channel, like a local w/EE choral vocals 0402 5/22. (Connelly)
- 830 DOMINICAN REPUBLIC HIJB Santo Domingo dominant, #1 hit "Canson de Amor" played, then SS mentions of D.R. 0400 5/22. (Connelly)
- VENEZUELA YVLT R. Sensacion is now AN'ing-may be off MM's but not sure yet. (Cooper)
- 834 BELIZE Belize City good w/SS pgm 0417 5/22. (Connelly)
- 870 CUBA CMDN Guantanamo way atop WWL, SS talk good at 0440 5/22. (Con)
- 950 VENEZUELA YVKG R. Vision Caracas is AN-7 and gives domestics fits.
- 1000 VENEZUELA YVNM R. Mil, Moron (city, not the anncr, hi) seems to have upped his power, as they're AN'ing and battling Mexico's R. Mil, often winning. (Cooper, last two)
- 1160 COLOMBIA Brand new R. Suramerica noted AN'ing here on MM 0824-0851, announcing as in Bucamaranga. (Cooper)
- 1403 GUINEA Conakry fair w/male vocal, violin accompaniment 0320 5/11. (Con)
- 1500 COLOMBIA HJLJ R. Tigre, Cali, noted AN'ing MM 5/2 0750-0817 and reported, bit I don't hold too much hope for a verie as their address and ownership is the same as toughie HJED 820. (Cooper)

Brought to you by...

Mark Connelly, W. Yarmouth, Mass. Realistic TRF
Ernie Cooper, Provincetown, Mass. HQ360 (2 180's), SM2, Bohac Altaz Loop

FEATURE MATERIAL

BOLIVIA CP 179, R. Musical, Santa Cruz La Sierra is a new station on 1515, announcing as 1520. Closedown is 0600, power unknown. (Arctic) A shot at Bolivia! Hasn't been logged in US since Ben Dangerfield heard 680 in the late 60's, if memory serves me correctly. (CH)

VENEZUELA YVZB is a new stn, as of April 1. Freq is 1500, power 10 kw, location is Barquisimeto. (Arctic)

ECUADOR HCIC6 R. Nuevos Horizontes operates on 1465. (Arctic) HCMP2 R. La Prensa, Quito is on 775. (Arctic) HCBA6 R. Ambato operates on 845. (Arctic) HCRS6 R. Surcos is on 1015. (Arctic) HCPV6 R. Centro is listed on 1125. (Arctic) HCEM6 Ondas Carchenses listed on 1255. (Arctic) HCFR2 R. Guayaquil operates on 1325. (Arctic) All this taken from their LA Information Section.

Pat Hastings

Station closing

CHURCHILL, Man. The phasing out means that original programming will be discontinued. The station will carry network programs but with the possibility of some local broadcasts produced by Churchill volunteers.

Douglas Ward, CBC's northern services director, said the station — CHFC — was costing a lot of money and did not fit into the network's new northern policy.

Ward stressed that the corporation actually spends more money in the north by

local residents. They were also concerned about the loss of the station which is their only local communication facility.

He said news crews would be stationed at Thompson and East La Macquarie.

Mayor Howard Brown of Churchill said, "I've never seen our people so worked up. We've been kicked around a lot with things like the demolition of Fort Churchill. We've had enough

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DOMESTIC DX DIGEST

Editor: Eric Rittenhouse
77 Linaria Way
Menlo Park, CA 94025

Hi All,

First off, note the Summer address above. Please send all reports there, until further notice. Excuse the typing job on this edition; the trusty Smith Corona has had another seizure, and this is the best I could do! Ye Ed is just returning from a long weekend of sun and fun in Los Angeles and environs, so if I seem hazy, forgive it, hi. I just stepped out of the car after five hours of driving, and I think I may have permanently bent myself... This has its advantages in terms of typing DDXD, but otherwise, it is pretty painful, hi. The doldrums of summer seem to have hit a few DXers other than ECR, if the size of this column is any indication. Remember, the beach can be a great place to DX from, hi. Still, static is not impossible to live with, so why not do a little listening, and send me a report. To those who have sent in Changes from Broadcasting, etc, thanks. Some are oriented this week, and I will try to keep up with them a little better in the future. I have discussed with the LPC the idea of instituting a separate column covering changes only, and the idea is being considered. In the mean time, I'll try to keep things reasonably up to date... Seems the three week break left me with a lot to say, hi. Anyway, on to the real stuff...

Changes:

1450 KRBN MT Change SH to 0600-1900 MLT wkdays, 0800-1800 MLT Sun. (RJE-NJ)
1270 WJLA NY CP: 5kw days. (RJE-NJ)
1230 KBCR CO Steamboat Springs, on air. (RJE-NJ)
950 KMTX MT Helena, on air. (RJE-NJ)
1070 KERR MT Polson, on air. (RJE-NJ)
1400 WPRY FL Perry, on air. (RJE-NJ)
1140 KCTE MO Southwest City, on air. (RJE-NJ)
1600 KCGS AR CP: 5kw day. (RJE)
590 KTHO CA CP: 2.5 kw day. (RJE-NJ)
630 WSAV GA Granted WRBX. (RJE-NJ)
1460 WQE? TN Granted change back to WJAK. (RJE-NJ)
1250 ---- MT Roosevelt CP req XNEV. (RJE-NJ)

All of the above relayed from Broadcasting.

1380 WAWZ NJ Sked 0700-0830 should read 0630-0900! (RJE-NJ)

RCs:

2nd Fri WRTA PA ALTOONA, per list. (SW-MA)
WIBG VA HARRISONBURG, per list. (SW-MA)
WBZ NJ VINELAND, per list. (SW-MA)
3rd Thu WHII MS BAY SPRINGS, per list. (RJE-NJ)
4th Mon WCBG PA CHAMBERSBURG, per list. (PRM-NJ)
4th Mon WJDD MD SALISBURY, per list. (PRM-NJ)
Tests:

1020 KBCQ NM ROSEWELL, hrd by Poda.

Sunset to Midnight:

920 WMEL FL MELBOURNE, 4/10 2004=10, u/WJAR w/CBS nx, ID barely hrd
2009. (SW-MA)
970 KYTZ OR FORTLAND, ex-KOIN, 5/24 0248 w/SID, rr. (DKK-CA)
1240 KUMA CA SANTA MARIA, 5/27 2400 atop after jazz inst w/nx. ID. (DKK)

Midnight to Sunrise:

550 CFNB NB FREDRICKTON, 5/23 fr/gd w/rr 0031-0042, C&W 0042-D100, jx ID into nx by DJ John McCarthy. QRM de UnID TT, WGR. (PRM)
710 WOR NY NEW YORK, 5/23 on ET/TT 0109+. (PRM-NJ)
KMPC CA LOS ANGELES, 6/6 noted w/semi-local level on groundwave all day while driving north from LA. Still audible at 1900 in Livermore, CA over 300 air miles from LA. (ECR-CA)
900 UNID TV 5/19 ET/TT w/short breaks of OC 0250-0320+ 5/19 u/CHML Inexp SW. (RJE-NJ)

910 CJDV AB DRUMHELLER, 4/11 atop w/C&W w/KNEW off 0620. (DKK-CA)
960 CFAC AB CALGARY, 5/17 w/KOOL/ KABL off 0300-0400. (DKK-CA)
1240 KPOD CA CRESCENT CITY, ex-KPLY. 4/11 atop 0628 w/SID, lite rr. (DKK)
1300 WKCY VA HARRISONBURG, 5/14 s/on 0600 w/SSB o/WAVZ/WFBR. (RJE-NJ)
WTFNJ NJ TRENTON, s/on 0600 o/WKCY w/no SSB, into Soul. (RJE)Date?
UNID TV 5/14 several ments of NC. Gospel frmt. s/on 0630. (RJE)
1330 WEBO NY OWEGO, 5/16 s/on, no SSB, into MBS nx 0601. (RJE)
WASA MD WATFORD DE GRACE, 5/16 s/on 0602 into UPI nx, no SSB, atop UNID WEBO and UNID SSB. (RJE-NJ)
WHAZ NY TROY, 5/22 s/on, no SSB 0603 u/WPOW. (RJE-NJ)
WRAA VA LURAY, 5/22 s/on, SSB 0604 u/WPOW, o/WHAZ, into Mr. of Decision. (RJE-NJ)
1350 WNLC CT NORWALK, 5/17 on RS 0528, sked s/on in Log wrong. (RJE)
WRNY NY ROME, 5/17 0643 ID weak u/mess. (RJE)
WCBA NY CORNING, 5/17 0600 s/on, no SSB o/u WHWH. (RJE-NJ)
1370 WALK NY PATCHOGE, 5/18 ad, ID 0555 u/WFEA. (RJE-NJ)
WSAY NY ROCHESTER, 5/18 0548 IDs in ET/OC, also 0532. (RJE-NJ)
CLLV PA VALLEYFIELD, 5/18 s/on O'Can. 0600 u/WFEA/WALK. (RJE-NJ)
WKIK ND LEONARDTOWN, s/on, no SSB 0601 o/u WFEA/WALK. (RJE) 5/18?
WPAZ PA POTTSFORD, 5/18 s/on 0601 u/WFEA/WKIK, into Ac nx, no SSB.
WBTQ MD FREDERICK, 5/18 s/on 0602 briefly o/all. No SSB. (RJE)
WBYL NY ELLENVILLE, 5/18 s/on, choral SSB 0602=WZYU, then atop. (RJE)
1390 WJOD VA FREDERICK, 5/18 s/on 0602 u/WFEA, w/ 0538. (RJE-NJ) SEE
WRSC PA STATE COLLEGE, 5/4 s/on w/Cat Stevens' "Morning Has Broken" w/voice overed annments 0600 o/u WLAN/WBOK/WFBL. (RJE)
WKLP WV KEYSER, 5/4 s/on SSB for AM&FM 0605 o/u mess. (RJE-NJ)
1400 WLLH MA LOWELL, 5/23 atop 0020 w/rr into lsl spot. (PRM-NJ)
1410 WHAG MD HALFWAY, 4/26 w/AiNx to syndic. Rel. pgm. 0345. Not Ai in Log. (EST), (RJE)
WDOV DE DOVER, 5/2 0538 o/WPOP. (RJE-NJ) (RJE-NJ)
WHITE NJ EATONTOWN, 5/3 0600 s/on w/"fanfare" of sorts u/WPOP/WDOV.
WIKI VA CHESTER, 5/3 s/on SSB 0602 o/WPOP, u/WDOV. (RJE-NJ)
WLSH PA LANSDOWN, 5/3 0605 ID, nx u/WDOV. (RJE-NJ)
CFMB PA MONTREAL, 4/26 s/on w/Orch O'Can., SSB; starting another day of International B'casing' 0545. Sked NSP per Log. (RJE)
1470 CPOE PQ POINTE CLAIRE, 4/22 0528 o/WLAN w/ID. (RJE-NJ) (RJE)
WSAN PS ALLENTOWN, listed SM SP 0600-0700 didn't happen 5/55. NSP?
1500 WGFT OH MOUNGSTOWN, 5/21 s/on w/jingle, anct o/rr, into rr 0601 way o/WTOP. (RJE-NJ)
WFIF CT MILFORD, 5/21 s/on 0606, no SSB o/u WTOP. (RJE-NJ)
1590 WHPY NC CLAYTON, 5/2 0530 s/on w/ET/OC, testing DA pattern to 0600. (RJE)
WGOE VA RICHMOND, 5/2 0600 SSB s/on o/WQQW/WAKR/WHPY. (RJE)
WGOE NY SALAMANCA, 5/2 0600 SSB/S/on o/WQQW/WAKR/WHPY/WGOE. (RJE)

That's all! Excuse the typos here; I lost the correction ribbon, and I never had any White-Out, so I had to wing it. Once again, notice the address change mentioned at the beginning of the column. Until next time, 73 and good DX de ECR...

Reporters:

RJE	RUSS EDMUNDS	Kinnelon, NJ	HQ-150, 4' loop
SW	SHARON WATERMAN	Southwick, MA	HA600A, loop
PRM	PAUL MOUNT	Coffeeneck, NJ	TRF, SM-2
DKK	DON KASKEY	San Francisco, CA	Radio of sorts
ECR	ERIC RITTENHOUSE	Berkeley, CA	Car radio



After reading Bob Foxworth's review of the McKay-Dymek DR-22 (Vol 44 # 14 2-7-77), I thought DXers might be interested in a review of one of the prototypes which George McKay brought to a Southern California DXers meeting some time ago for us to look at. This meeting has been traditionally held in a downtown motel and is somewhat noisy. For antennas, we used a Dymek amplified whip and a 50' quickee longwire. Overall, I would say I was quite pleased with it. In judging a receiver I consider the following factors with importance in the order listed: front end immunity, selectivity, readout, and conveniences. I usually ignore sensitivity since it is so easily obtained. It's only when there is too much or too little that you need to be concerned about it. Front end immunity (the ability to withstand overloading from strong signals), to me, is the most important since selectivity and readout are worthless if your front end is clobbered and filled with garbage from 50 kw locals. Good selectivity is a must, but if the front end can't take it, then you can't listen close to powerhouses which is one place where you need selectivity. Similarly, good readout amounts to a frill if you are hearing two adjacent stations. Bear in mind that I am reviewing this receiver with high performance BCB DXing in mind-not casual listening or DXing on shortwave.

SYNTHESIZED TUNING

The first thing that hits you when you turn it on is the big LED readouts. As I remember, they were about 3/4" high and you can read them 10' away. (The readout on the R-390A is only 1/2" high). The tuning is excellent but takes some getting used to. If you are not used to digital readout, it can be awkward at first, but once you are used to it, it is really nice. Synthesized tuning has been in disfavor by those in the know due to their experience with the military R-1051. This particular receiver requires two hands to turn the knobs because of the high torque required and makes DXing very tiring very quickly. The DR-22, though, had a verly light touch and allows zipping around the band as some DXers are prone to do. One of the nice features that results from synthesized tuning is that the BCB band is not broken into two bands like it is on the R-390A and SPR-4. It is such an annoyance to have to change bands when you reach 1000 khz and then retune down to 1000 khz to continue where you left off. Also because of the high IF, there is no preselector to tune. Synthesized tuning can make for faster tuning. Turning a knob one position can put the receiver from 550 khz to 1550 khz in 1/2 second. Try that on your R-390A or SPR-4.

On the otherhand, tuning from 995 to 1000 khz requires turning 4 knobs. 7
The DXer who plans his DX and knows where and when he will listen will find the DR-22 a great help, whereas the DXer who just scans up and down the band will pay a slight penalty. For example, going from 790 to 800 khz, the DXer will turn the "9" to "0" which will put the receiver on 700 khz. Then he will turn the "7" to "8" putting the receiver on 800 khz. Going from 790 to 700 to 800 khz can be a bit confusing at first, but the LEDs tell you exactly where you are. I feel that intermediate and advanced DXers will really go for synthesized tuning, but beginning DXers may find it somewhat of a hassle.

SENSITIVITY

From the comments I hear, most DXers think the published sensitivity of 2.5 uv is terrible since the SPR-4 has a sensitivity of 1 uv. Any DXer who knows hos stuff will tell you that as long as the sensitivity is below 5uv, knowing how to DX and knowing where and when to listen is vastly more important than that extra microvolt of sensitivity. Remember the R-388 has a sensitivity of 15 uv (!) and the R-390A has a sensitivity of 3 uv and you know how good they are. My R-390A was measured by a Swan engineer as having 1 uv sensitivity from 500 khz to 30 mhz. Although you can tell the difference, it can't hear anything my R-388 can't. 2.5 uv is mre than adequate and at the motel we were listening to WNVB-60 khz coming thru the power line noise.

FRONT END IMMUNITY & SELECTIVITY

Here in the Los Angeles area, I have some quick tests that I run on every receiver that I use. If they pass, they are in the good to excellent category. If they don't, they aren't worth bothering with for serious DXing purposes. The first is to tune in XEMMM-800 in Tijuana, Mexico. KABC-790 (5 kw), which puts in a potent signal, produced little slop and no cross-mod as I would expect from a good quality receiver. (NOTE: I used the 4khz filter. The 8khz filter is worthless for DXing.) The next is to tune to 990 and 1000khz. XECL-990 Mexicali and KML0-1000 Chula Vista were received weak, but clear. In this case KFVB-980 and KGBS-1020 (now KTNQ) produced little interference. The last one I ran was to tune in 1050 khz. In this case, KBBV-1050 Big Bear Lake and XED-1050 Mexicali were fighting it out weak but very readable. In this test, the combined effects of KFVB-980 (5 kw), KGBS-1020 (50 kw), KNX-1070 (50 kw) and XEPRS-1090 (150 KW) can bother reception of 1050. The DR-22 passed it well whereas my SPR-4 is bothered noticeably. Aparently, having a double balanced mixer, 30 mhz IF, and 30 mhz crystal filter really cleans things up. I usually fun these test in the daytime since that is when

8 everyone is on with their maximum power and provides a worst case test. I chose these stations because they are next to strong locals and because they represent the limit of daytime DX. Since they are weak, any cross-mod or extra slop due to poor selectivity will quickly cover things up. One thing I wasn't able to do was to test it with an amplified loop on it.

SPURS & SUCH

Quite predictably, I couldn't any cross-mod even when listening close to 50 kw locals. Naturally, when the Rockers went into a drum solo or the Mexican stations went into their Mariachi music, you heard it 10 khz away, but this receiver really makes you a believer in state of the art solid state. I couldn't find any spurs or images but then I wasn't about to look thru 6000 channels for them. There is a daytime spur on 830 produced by two stations (KMPC-710 & KPOL-1540) mixing in the front end and appears on even the better receivers. However, it was absent on the DR-22.

CONVENIENCES

One thing McKay-Dymek did right was to separate the BFO from the selectivity function. If you want to use the BFO independent of the selectivity or vice versa on the SPR-4, you have to modify the receiver, which is pretty ridiculous for \$600. However it is offset by 2.5 khz from the center of the IF. The vernier tuning overcomes another objection to synthesized tuning: not being able to tune inbetween 5 khz steps. It will be no problem to get 1 khz readout (just take a felt pen and mark the face plate) and with a little practice, ½khz or better readout should be possible. Also, there is a jack for recording, which should be on every receiver. The knobs are nicely laid out in a row instead of being plastered all over the faceplate like the R-390A and R-388. Also there are no unnecessary knobs.

SPECIAL CONSIDERATIONS

The first thing to remember is that McKay-Dymek in no way claims or implies that this is a DX machine. They explicitly state that it is for the HiFi Enthusiast/SWL. Since we are not that category of people, we can't feel that the receiver will necessarily have the features we need. I feel that this should be stressed since some rotten reviews of the FRG-7 are turning up by members who bought one without reading the specs. A receiver with 6 khz bandwidth is going to make a fair domestic receiver and a very poor one for splits. **The DR-22 with 4 khz selectivity will make an excellent domestic receiver and a fair to good one for splits, depending on what you are trying to hear.** I suggest any prospective buyers make arrangements with Ralph Sanserino (8422 Crane Circle, Huntington Beach, CA 92646) to yank the 8 khz filter and replace it with a 2 khz ceramic or mechanical

filter. Ralph is already doing this with the FRG-7 and he may be able to make arrangements so this would not violate the warrantee. Also, being a hifi receiver, the audio response is good--to good in fact. Dymek claims it goes down to 30 hz which is a no-no on the broadcast band since all the low freq hets and rumbles will come thru. I suspect that changing a few capacitors in the audio stage will fix things. Similar considerations apply to the highs. If you have an Autek QF-1, then this will solve the problem. There is, unfortunately, no notch filter in the IF. Hammarlund users will miss this, although you could add one easily since it has a 455 khz IF. It does have a 5khz audio notch filter, but this is of dubious value on the broadcast band. If you are using 4 or 2 khz filters, a 5 khz ket isn't going to make it thru very well. With a light weight, solid state receiver like this, DXers are going to be tempted to take it on DXpeditions and Beverage parties. I think there may be a problem with the crystal filter at extremes of temperature. Temperatures ranging from 30F to 115F are not uncommon during such events (at least here in So. Cal.) and I doubt if the filter is designed for this kind of range. 30 mhz is very high for a crystal filter and they drift a little with variations in temperature. A 5 khz drift at 30 mhz is very small, but it could put the signal outside the passband. This is, of course, no problem at ordinary room temperatures.

SUMMARY

My preliminary test indicates that this receiver is worthy of serious consideration by the serious DXers, but any potential users should carefully weigh the features before buying and remember that a few changes will enhance the already superb performance for serious DXing. I rate the DR-22 against The Big Three as follows:

Using 4 khz selectivity, the DR-22 could totally outclass a stock SPR-4. The SPR-4's selectivity (5 khz) is too wide for splits and it has rotten audio. Also the SPR-4 has the disadvantage of having the band split at 1000 khz. Although good, the SPR-4 front end is substantially inferior to the DR-22's.

The DR-22 should run neck in neck with the R-390A. The mechanical filters will provide slightly better selectivity since the shape factor of the ceramic filters are not quite as good. However the DR-22's front end will let less crossmod come thru and make up for the difference. The R-390A has a major advantage with a 2 khz filter which helps a lot when the going gets rough. The DR-22 can drive a loudspeaker directly and has provisions for recording whereas the R-390A is rated to drive a speaker to ½ watt maximum and recording must be improvised.

10 The DR-22 will compare favorably against the R-388. The DR-22 will have better readout since the R-388 tends to lose linearity with age. The DR-22's selectivity will also be better. However, the R-388 has a more appropriate audio response and it has a crystal phasing notch filter which is a big plus. There you have it and, as the man says, its a nice radio

 TRANS-POLAR IN DISTANT A-MW..... (Dr. J. Schmidt)

Following a thorough researching of all of the loggings of Urumchi-1525 reported to IDX in DXN between January of 1970 and April of 1977, several things become increasingly apparent. Early in this period, both the author and Bob Foxworth noted that the best receptions of this station could be had during periods of moderately active geomagnetic conditions, or unsettled conditions. The statistics, for the most part, bear out this observation. In perusing the loggings reported, no effort was made to evaluate the receptions qualitatively on the basis of audio quality or signal strength. The presence of a discernable signal was deemed to be sufficient.

In a large number of the cases, the index of geomagnetic activity, A_{fr} , showed values of 10 or more. In an even larger number of cases, the average of the values of A_{fr} taken over the ten days prior to the reception showed values in excess of 10. The highest index recorded during that period was usually 18 or more. In a majority of the receptions, at least one, and usually two or three of these figures were in general agreement as to being above the previously-described levels. In isolated instances, all three values were below 10.

These findings are not generally surprising, however, with the exception of the latter statement. The results of this study tend to generally substantiate the expected trends, but are not sufficiently definitive to be grounds for any hard and fast statements or predictions not couched by a disclaimer or two.

It is also interesting to note that a larger proportion of the receptions are during the months of November and March, which are conceded by many to be those months which border upon the Mid-Winter Anomaly. The next most frequently-appearing month is October. This data seems to indicate that receptions on Trans-Polar paths may very well be adversely affected by the MWA.

Other comments of note include one made by several DX'ers, that receptions of Urumchi tend to parallel receptions of Vinnitsa, Ukraine on 1546 kHz. Vinnitsa is one of the more northerly of the European TA's, and further data on receptions of it would be required before any correlations of any meaningful nature could be drawn. As would be expected under unsettled or moderately active geomagnetic conditions, many DX'ers noted that Urumchi receptions did not tend to coincide with good TA conditions.

The findings detailed above do not, however, shed any light on the propagation mode responsible for the Urumchi receptions. Logging data supplied by a number of the individuals reporting these receptions also do not provide any substantive information. Many receptions were noted with no bearings at all, while the range of those bearings which were reported varied from 0° to 30°. Given the range of receiving locations, this range is pretty much acceptable for a Trans-Polar path, as opposed to one utilizing an ionospheric tilt (chordal mode), which might be expected to yield a lower range of bearings. There is, as was noted in the original Trans-Polar DX article, a paucity of information on the subject other than of a theoretical nature. We know that the phenomenon exists, and that under certain conditions signals may be propagated by it. There has been, to date, no information as to the characteristics of the bearings of such signals.

As an appendix to this report, is a listing of those receptions which were the basis for the study, as well as the relevant data concerning A_{fr} as mentioned above. Also included is the state (or states) in which loggings were made on the dates given. Inasmuch as the A_{fr} is computed on a basis of UCT (GMT), and the IDX reports were likewise, no adjustments need be made to compensate for the time differences.

Additional data, obtained from individual DX'ers, much of which did not appear in IDX, or which represents additional data, will be studied at a future date, and will be the subject of another report.

DATE	LOC	A_{fr}	A_{fr} (prev. 10 da.)	Highest dur. 10 prev. da.
1/31/70	PA	4		11
2/16/70	PA	5	3	7
3/27/71	NO	10	5	12
3/28/71	NJ	13	5	12
9/26/71	PA	20	13	23
10/1/71	NJ	18	14	20
10/23/71	NJ	8	6	11
10/26/71	VA	5	5	12
10/27/71	VA	6	5	12
11/8/71	NJ	10	7	20
11/9/71	NJ	6	6	20
11/10/71	NJ	8	5	12
11/11/71	NJ, MA	18	5	18
11/12/71	NJ	12	7	18
11/13/71	NJ	5	8	18
11/14/71	NJ	3	7	18
11/15/71	NJ	1	7	18
11/16/71	NJ	3	6	18
11/17/71	NJ	3	5	18
1/15/72	PA, NJ	17	6	(beginning of storm) 15
10/13/72	VA, MA, NY	23	7	23
10/22/72	MA	12	10	22
11/2/72	MA	35	17	20
11/8/72	NY	7	15	25
12/3/72	MA	7	9	15
12/6/72	MA	5	7	12
12/8/72	MA	6	6	12
12/14/72	NJ	8	7	14
1/3/73	MA	7	8	16
1/12/73	NJ	25	15	18
1/14/73	NJ	8	14	23
1/18/73	NJ	4	14	23
1/27/73	NJ	25	14	28
1/30/73	NJ	15	19	28
1/31/73	NJ	6	18	28
2/24/73	NJ, PA	35	21	32
2/26/73	MA	30	25	35
3/21/73	NJ	40	18	34
3/22/73	NJ	32	20	32
3/24/73	NY	28	20	40
3/25/73	VA	45	22	40
3/26/73	NY	20	26	45
3/27/73	NY	23	26	45
3/29/73	NJ, NY	12	31	45
3/30/73	NY	11	25	45
1/20/74	MA	3	10	14
1/21/74	MA	25	9	31
2/10/74	NJ, NH	11	7	(beginning of storm) 13
3/19/74	ON	2	13	27
3/21/74	NJ	27	13	40
3/16/74	NY	40	21	44
11/13/74	MD, NJ	23	14	29
11/15/74	NJ	8	19	38
11/16/74	NJ	17	18	35
11/17/74	NJ	9	19	38
1/6/75	PA	20	10	30
12/27/75	MA	25	10	27
1/6/76	ON	11	8	25
1/31/76	MA	25	14	18
2/6/76	MA	7	14	25
2/7/76	PA, NY	17	19	25
2/24/76	PA	17	10	28
3/6/76	NY	22	16	28
3/7/76	NY	22	16	28
3/16/76	NY	16	21	32
11/6/76	PA	2	17	22
11/20/76	PA	6	11	24
12/3/76	VA	3	6	9
1/1/77	PA	12	7	12
1/12/77	PA	9	7	12
1/21/77	ON	9	7	9

The opinions expressed in this column are those of the individual members, and do not necessarily reflect those of the editors, the publishers, or the National Radio Club.

KARL JETER - 2816 Frontier Trail N.E. - Atlanta, GA - 30341
It's been a while since I gave Ernie's typewriter a workout, so here goes. First of all, apologies to Milford Rogers, from Stone Mountain, GA, who was at our GTG, and whose name I forgot in my last Muse. DX has been off, as expected, lately but I have been filling up the slack with a renewed interest in GY DX. After reading Bob Foxworth's excellent article "Successful Long-Distance Reception on the Class IV Channels" I picked up some ideas and hints that have helped me bag a few. By the way, that article is known as "D-13" in reprint circles, and is recommended. Does anyone know who the Jepko on 1240 might be? (Yes, Karl, it's Herb Jepko, hi! -ERC) I've heard it often after midnight, but never any IDs. There are probably more than one on that channel - does anyone have a list? The recent GY DX includes: WBIA-1330 Augusta, GA for GA #137 on 5/5 at midnight w/ID popping in, weak signal. MM 5/2 brought WKRM-1340 in @ 3am w/ID, one minute of NX, then rr, to 3:02. This w-local W130 nulled (but they're no problem anyway). Going back to April, WLI-1230 Dublin, GA heard for GA #136 on 4/27 @ 11:27pm w/s/off, also weak. Best recent GY log was WMMB-1240 Melbourne, FL 4/11 @ 6:31am w/mx. Into sports program, ending @ 6:39. Other DX: Tentative on KAOL-1430-TEST MM 5/2 w/TT & W IDs noted, very weak at sked time. No voice IDs heard. SSS on 5/5 was productive, WAGSV-1270 Guntersville, AL heard @ s/off late 8:48, no SSB. Then WFUL-1270 Fulton, KY noted w/s/off @ 9:01pm. Umh KADL-1270 Pine Bluff, AR was heard very well after 9:05pm. So much for recent DX. A few veries have filtered in: WKRM-1340 w/v/PP Form, WADO-1280 v/q, KRYT-1530 holdout for last year's TEST, v/f (Thanks, Wayne!) and WKAZ-950 v/q. The bulletin is looking good, Louisville, and keep up the good work! Looks like the transision was smooth, and the Club is in great shape. It's nice getting DX NEWS at the beginning of the week, also. Well, all talked out for now. I hope to have some more GY to report next time around. This DXer will be hitting the BCB dials all Summer long! 73s for now. (Way to talk, Karl! -ERC)

HARRY HELMS - 1781A Cedar Post Lane - Rock Hill, SC - 29730
The big news here is a vastly improved FRG-7 thanks to the efforts of Gilfer. The electrical problems mentioned in my prior Musing have been corrected, and the selectivity is vastly improved. Gilfer measures the selectivity of an unmodified FRG-7 as 6 kHz @ 6 db and 20-22 kHz @ 60 db; Jilfer installed a ceramic filter that now gives selectivity of 4 kHz @ 6 db and 10kHz @ 60 db. That's not a challenge to an HQ-180 but is easily enough to dig out stuff like Surinam-725 with ease every evening. On SW I can split R. Nacional Feru-6012 from Deutsche Welle's Antigua relay on 6015 with no problems. AVC time was also modified by Jilfer. Jilfer offers the FRG-7 with the new filter installed for slightly over \$300 and is worth investigating if you're in the market for an SW RX. Perry Ferrell of Gilfer does not advise using the FRG-7, or any other Wadley loop RX, as a BCB DX RX. The FRG-7 is insensitive when using an LW on the BCB but performs fine with a Space Magnet. There is some cross-mod, however, & I imagine the problem gets worse in urban areas. In summary, if you buy an FRG-7 be sure to have it modified for selectivity and AVC time and buy it from a reputable source such as Jilfer or Ham Radio Outlet - your selling dealer is responsible for warranty service. On other notes, I have an article on foreign BCB DXing in the June issue of Popular Electronics, with another DXing article, this time on CW utilities, scheduled for the July issue. I knew that degree in Journalism would come in handy for somet.ing; some day, hi. I also have two more awaiting publication at Elementary Electronics. Everyone have a nice Summer. 73.

STEPHEN H. PONDER - Box 22635 - Fort Worth, TX - 76122
Hello again! I went home to Bossier City, LA, for Mothers' Day here's what I heard while home: 5/6- KFJW-1050 with religious program @ 9:02pm; WJDX-620 u/KWFT @ 9:35; KSD-550 u/KTSA; XEQW @ 10:10; KFJZ-1270 on top @ 10:30; WIBV-1260 on top o/KGBX/WNDE @ 10:40; WNDE-1200 covering WIBV @ 10:45; WEMP-1250 (in null according to NRC log) dominating @ 11. 5/7- WETS-540 through static @ 5:10am; WR-0-680 topping channel @ 5:40; WABC-770 in the clear @ 5:45; WQW0-1130 topping o/KLIF/KAYQ @ 6:05; WGAR-1220 in the clear @ 6:15; WBSN-1460 dominant o/WYOK 6:20; WRR-1310 w/NIS NX @ 6:36; WRBC-1300 also w/NIS NX @ 6:50; KRVM-880 surprisingly strong @ 5:15pm; KXKW-1520 covering KOMA @ 5:50; WDLA-1070 u/KFDI @ 5:04; KRYS-1360 good o/KXOL @ 9:40. 5/9- KAKC-970 u/KSYL/WAVE @ 4:55am; KROF-960 good u/KIMP/KCIJ @ 12:10; WESY-1580 o/KLOU w/s/off @ 9pm; KMAR-1570 u/Monster @ 9:02; WIKV-1490 o/FRCS 9:07; WCAU-1210 o/KRYN @ 9:55; WIRL-1290 o/WHIO @ 10:15; KXOL-1360 good o/KRYS 10:22. Latest veries: v/*: KWAM-990 (w/GM); KNOV-1490; KYXX-920. v/q- KFQO-680, KLRA-1010. Now that school's out, I hope to be at the dials more often. C U in 14!

WARREN GREENBERG - 145 Cottage Road - West Roxbury, MA - 02132
Nothing new here since the last Musing except that I received a v/q from WFL from when I was in Florida last December & January, plus I received my first v/q from my trip to Europe. This was from the Armed Forces Radio, Europe. So that's all for the Musing, because there wasn't that much new.
AS THEY'RE SAYING IN TORONTO, "CHIN"-1540. "CONVENTION HOUR IS NEARING!" BE SURE TO MAKE THOSE PLANS RIGHT NOW, FOR YOU MUST WANT TO BE INCLUDED IN THE WHOOP-TEE-DO!

DARIO MONFERINI - 8 Davanzati Street - 20158 Milano, Italy
2/28 till 3/8 best results: WERE-1300 @ 8pm EST; WTIC-1080 @ 9:30; CKLM-1570 @ 8:28; WLW-700 @ 8:58 with interferences from Greenland Radio which closed down @ 9:19pm EST; CBNM-740 @ 9:50; R. Bobi Kampala, Uganda @ 10:15pm; WGY-810 @ 10:20pm; WHDH-850 @ 7:40pm & WHAS Louisville @ 8:20pm (both these thanks to the silent period of RAI Roma); Bobi Uganda=809 was here also on 3/12 after 10:05pm EST. After 3/18 also here was noted St. Vincent-705 @ 8:30pm EST s/off with good peaks. From 3/18 till 3/23 were NA openings, and usual stations were noted, among them CHUM-1950 7:40pm EST w/GRM from WHN; CSAP-1300 @ 9:15 pm. New period of NA opening was 3/31 till 4/4. CQCV-1280 @ 8:13pm; WABK-1280 @ 9:05 (the same night!), WHIO-1290 Dayton @ 8:30pm. However the most exciting day was that 4/11 @ 8:35pm EST, will I met the most exotic signal of ZFVI Virgin Islands, according to my tape recorder they ID like "Radio" reverberated & repeated five times. After 9pm a program from ZDK was over the air, but after that date CX have become very poor and only usual LA stations has been noted. QSLs received from precedent Musing: CKRW-1000, CJBR-900, R. Lerida-1520 Spain informing they now have 5kw! Dutch pirate lkw "Tom C't Radio"-1322; Vilnius verified my report of Kaunas HS-1554, WLW-700, WGY-810, R. Antilles-930 v/l, Greenland-700 with nice folder; a controversial letter from Caribbean Radio Lighthouse-1165 writing like a St. Thomas "I will verify only if you will send a taped cassette." Maybe he don't like Italian DXers??? Hi. VOOM-590, CKLG-1380, a real unexpected, after 210 days. I have a final note to say about that DX season which is approaching to s/off, also here concerning NA reception. It has been very good & the logging of KSO-1460 & WMTG-1280 shows the limits of reception are still to be traced. Spain from April run GMT + two hours. This will be till the first week in October. Italy will have GMT + two hours from the last Sunday of May till the last Sunday of September, so remember RAI Italy s on @ 0400 GMT, 11pm EST, on all frequencies after that date. Best wishes for coming holidays period and see all us more later.

SAM DELLIT - 23 Lorinya Street - Mansfield, Brisbane, Australia, 4122
Not much DX here lately, however I managed to get away with fellow MW DXers Chris Martin, Ernie Moore and Merv Joyce to Sautele in Northern NSW for a three-day DXpedition. Three untermated beverages were erected in all 1,000 feet to the E for the Caribbean and Central Africa - our mainstay with 600 footers to the NE & SE as backups. First night we arrived at lam local time & started listening on the NE beverage left behind from a previous trip. Some interesting things were heard, strongest being Lusana-618 with "Beat Scene" @ 1730 GMT & Kampala-908 w/"African Top 40" @ 1800z (shorthand for GMT). Others noted @ around the same time were Nairobi-611, Dar es Salaam-656, Nairobi-746, Butaba-728, Mombasa-791, Asmara-944, Mogadishu-963, traces at times of Guclua on 998. Around 5pm local the 300 mile drive got the better of us so we hit the sack. Next day the Caribbean aerial was erected - a real beauty, well over 1,000 feet & averaging 25' high. That evening our efforts were rewarded with Colosal-1005, Voz Centro-1055, Cubans on 590 & 600, all real rarities from Australia were only a handful of Latins ha e been heard. Highlight of the trip though was Caymans, the OC we heard @ 1050z seemed too strong for 10kw @ 9,000 miles, but @ 1058z lady announcer with "At this time Radio Cayman in the Cayman Islands begins another transmission." Armchair cope with rapid fadeout @ 1125z. Thus fortified we weathered the cold all night, the Caribbean aerial had a narrow sidelobe on Borneo, enabling us to log Sabah-665, Banjarmasin-1134, Pontianah-1233 while waiting for the Africans to arrive. When Sabah s/off @ 1600z Reunion was already bounding in & shortly afterwards Forrestside-683 w/BEC NX @ 1800z. Good report on Seyshelles-1331 w/"Seyshelles Roundup" @ 1730z though hats from Japan-1330 & RRI-1334 were annoying. Next night a fair opening on the top end - Comores-1088, Malagache-1394 & 1502 w/tentatively Swaziland-1376. All in all a very enjoyable weekend & shows what can be done when you get away from the locals (no MW XRs at all within a radius of 50 miles). Equipment used was 4 Drake SFR-4's, probably not a pinch on your HQ-180's but with 500Hz frequency readout & 6 watts power consumption, just the thing for setting up on a stool in the back seat of the car. I forgot to mention our last logging, Lord House Island-1490, 30w @ 300 miles during the daytime! Recent QSLs from KXEA, KCRG, VOA-Marathon, 4MX, 4WK, 2CN. 73s & good DX.

MIKE HARDESTER - Box 2,723 - USNAVREGMEDCEN - FPO Seattle, WA - 98778
There was mention recently over local FEB-650 that the U.S. Postal Service is requesting an increase from 1¢ to 16¢ for First Class Mail, & permission to eliminate Saturday deliveries. This struck me as humorous in a way (being 27 & able to recall 4¢ First Class letters) in that the service continues to deteriorate as the rates go up. It's a simple matter to gripe about something (postal rates, delays in receiving the 1977 WRTH), but how many actually do anything besides gripe? Not too many has been my experience. However, it might be interesting to see how our Senators and Representatives react to re-evaluating complaints over present mail service & the request to raise rates. The present suggested rate increase is 23.1% if my calculations are correct, & if such is projected across the board, that raises international airmail as well: 22¢ newsletter to 27¢; 25¢ airmail to 31¢; 31¢ airmail to 38¢; & IRCs from 42¢ to 52¢ each. Again, this is assuming the rate increase is the same across the board. Now a suggestion (and what complaint is any good without a suggestion?): on the domestic level, instead of charging 16¢ per ounce, how about 8¢ per half-ounce? International mail is charged on the 1/2 ounce basis, so why not domestic mail? Believe it or not, a legal size envelope, stamp & two sheets of regular paper will go for about 1/2 oz. If two sheets are too heavy, use one sheet & write on both sides. Comments? Very 73 & best of DX. (How about eliminating JUNK mail, Mike? -ERC)
NEXT DEADLINE IN PROVINGETOWN FOR MUSINGS IS SATURDAY, JULY 2, AS THERE IS NO MAIL DELIVERY ON MONDAY, JULY 4. GET THOSE MUSINGS IN RIGHT NOW AND BE SURE TO BE ON TIME FOR THE NEXT ISSUE!

MICHAEL E. BISCHOFF - Golden West DX Ass'n - 420 Longfellow Avenue - Deerfield, IL - 60015
 Now that I've been outdone by GLP and EP several times over, it's time for me to spend 13¢ to put my 2¢ worth in, hi. DX has been absolutely incredible over the past Winter season, probably due to the rotten WX experienced around these parts. WC openings were particularly good, most of the new loggings came from that direction with a turn back towards the E lately with the arrival of Spring. As of late, I haven't done too much new DXing, just clearing up a lot of outstanding reports. Also, atmospheric are killing everything, I can't even get WLS clearly lately (which may be more or a blessing than a curse, hi) & S suburban stuff is next to impossible. Totals are now drastically up from last time, with 669 heard, 364 varied, 48 states & six provinces heard-varied. I just need AK & HI now, looks like I'll have to wait until next Winter for them). So far, the following results in from GWDXA TESTS of this season; KNWS heard in 12 locations, including OR & WA (with KING on? It can't be!), as far S as GA, WVVX heard in almost the same spots, obviously more reports from the E due to directional. I understand WIVS "co-TESTed" for NRC & GWDXA, & was heard in Frisco. I've gotta hand it to you WCers, you certainly have good ears! Either that or you use KGO's towers as your antennas! WCMY had in 22 places, farthest being FL. This, by far, was our best-run TEST of the season; special thanks to CE Delnar Dayton. First results from KVOX have 14 reports in, NE being farthest W due to KTLK, & all you New England boys to the E. If you haven't sent in yet, for a tape, KVOX will send a rather wild poster w/verie. That WVVX TEST really makes me look bad, here I tell everybody they won't even verie & a guy from MI gets them to TEST twice! So much for my credibility, hi. Actually, per call, they've got a new CE who's into DXing. Station is also back to programming on FM, all ethnic on AM. A good season for TESTS this year; let's see more folks involved this coming year - just think of the results if every member arranged ONE TEST! Speaking of TESTS, anybody get a CQJX verie yet? Methinks they've pulled the shaft on everybody again. I sent them a 10-page letter, with every ID verbatim! It took me eight hours to copy it all down, too. If the veries are out, does anybody know who won the farthest DXer prize? Have a good DXing Summer (no such animal, hi) if you can. I will not be outdone by other DXers' cute phrases. I will not lower my standards of high quality. 91s.

PHIL BOERSMA - 15570 Cleveland Street - Spring Lake, MI - 49456
 Time for a Musing! I'm thinking very seriously about attending the LINCOLN Convention, if my boss will give me four days off! Sounds like it'll be a real great convention - I really hope I can make it. Local WKJR-1520 had an open house on Sunday 5/22, & I went, & ran into an old high school friend of mine who's now an announcer at the station. Anyway, he told me that WKJR has applied for a nighttime operating permit, & they would be using SEVEN towers. He didn't say what power they have applied for, but with a seven-tower array, it just might be 5 or 10kw. WKJR currently operates with a daytime only power of 20kw fed into three towers, producing a fairly sharp M/S pattern, with sharp nulls to the E & W. If the nighttime pattern gets approved by the FCC, it would be the most complex DA in Western Michigan. It will go straight N, too, so WKJR might not be much easier a DX catch for DXers outside of MI. Well, I just had to let the cat out of the bag, hi. I am currently taping with persons from Louisville & Kelowna, BC, if anyone not in those areas wants to hear some of my locals, drop me a line. I use cassette only. 73s.

MIKE WHELAN - 1654 Bathurst Street #401 - Toronto, Ontario - M5P 3J9
 Hi Guys, gals, and others - it's been a month or so since the last Muse so I figure it's time for me to write in again. I am presently on a sort of cation in St. Lambert, Que. for my first-ever trip out of Toronto since I moved there from England when I was three, so I guess it's about time I got away from the big town. When I left, I remembered that I forgot to check the membership list to see if any NRCers are in St. Lambert. Too bad, but I doubt there are any. St. Lambert is in suburban Montreal so I left Toronto looking forward to some new DXing experiences. Unfortunately, it's not too different except that the odd station is either a little weaker or stronger than it is in Toronto. Basically there are the same dominant stations on each frequency & that was the disappointment. For some reason, I have lost the DX bug, therefore I will concentrate on raising my station/verie percentage. It is currently about 40% with 540 stations heard. Slowly but surely the Toronto Area DXers (TADS) are getting to know each other. There are now seven of us who communicate regularly and belong to either the IRCA or NRC & of course there is Mike O'Shea & George Semko in Buffalo who also keep in touch. If we get many more (there are still 10 or so), we may have good reason to hold the NRC Convention here - wow! By the way, has the NRC ever had its convention near Toronto? (Yes, Buffalo, and Montreal -ERC) For the next few weeks, I'll have lots of time on hand to write reports. I'm in a cast for six weeks from falling off a skateboard - two days before out city track meet. Oh well, that's the BREAKS, hi. NOW they tell me you shouldn't skateboard if you're 6'4". Thanks go out to all NRC members for making this Club what it is, and to Dario Monferini for his letter. I'll phone CHUM when I get back. 73s & 'bye, all.

CHARLES GEORGE - 6407 Howard - Dallas, TX - 75227
 I have received only one verie recently, & it was from KFEQ. I had almost given up on hearing from them. My ground on the SM-2 broke off so now I am using the ground that I use with my outside antenna for listening to the SW. In a way I am surprised that there is hardly any information on MWDX compared to SWDX. I was also wondering why R Belize uses more power on their XR than on the SW XR. I even found that owners of the electronic stores do not know much about MW DX. 73s.

MARK CONNELLY - 52 Amsden Street - Arlington, VA - 02174
 Musing/Eastern DX Forum. Boston's only C&W outlet, WOOP, has dumped its country format & WCOP call; the new call heard on 1150 is WACQ, w/a format of current hits and oldies of the 60's & 70's evenly mixed. Announcing, while live, is kept to a minimum - the format stresses non-stop jukebox-style mx rather than personality-oriented announcing. I first logged this on 5/21 on the car radio at West Dennis Beach; at first the strange call & format mystified me until numerous Boston mentions floated through. The slogan "The new Q" is used; this is reminiscent of numerous other "Q" stations such as WRQC-910. Where the heck did this fluky Q-callsign business originate, anyway? (I think at "13-Q," WKTQ-1320, Pittsburgh -ERC) Its significance somehow escapes me. PSAs are referred to as "Q Tips"; a practise of questionable ethical propriety, considering the fact that a well-known manufacturer of cotton swabs uses that brand name. WACQ remains under the old -GOP owners, Plough, Inc., & their XR site is still in the clay marshes off of Concord Avenue, Lexington, MA. "Progressive country" is offered on WTTK, the FM side of WACQ; this appears to be the only variety of C&W that has a chance in the Boston area market. Some initial technical problems at WACQ include "tin-can" restricted, overly-compressed audio on some commercials & the audibility of only one channel on stereo records; on "Down on Main Street" by Bob Seger, the guitar comes through fine but the vocal is very weak & sounds reverberated. Well, for now, 73.

RUSSELL J. EDMUNDS - Box 127 - Boonton, NJ - 07005
 Greetings once again. Looks like I'm getting to be a regular in these pages already. I guess after being regularly in almost all of the 111 previous ones with publishing and some 120 or so before that with DXDD, it gets to be a habit. Not much new since last Muse, though a few, and several new tapes. New loggings follow (* means new): 5/14- WKCT-1300 & WTNJ-1300 w/6 & 6:01 s/ons. 5/15- I noted WSAN-1470 on through listed SP, so nothing new there, drat. 5/16- WEBO & WESA-1330 @ 6:01 & 6:02. Also an UN-ID SSB @ 6 buried by these two. 5/17- On 1350: WNJK @ 5:30 w/RS, so log listed s/on is also wrong, WZLX mostly on top w/WHWH, but I got s/on of WGBA @ 6 & that was it. 5/18 on 1370: WSAY testing w/OC w/IDs 5:32 & 5:48; WALK s/on 5:55, CFLV s/on w/O'C @ 6; WKIK @ 6:01, quickly buried by WPZZ SSB 6:01:30, then WZYQ* @ 6:02, WELV @ 6:03 w/choral SSB after AM-FM s/on. 5/21- I caught WGBT-1500 s/s/on w/jangle, announcement o/r/r @ 6 way w/WTOP, then WFIF s/on 6:06. Sked notes, changes, etc. other than above in DXDD. No SSS or foreign stuff either, I've been doing just s/ons. Trivia dept: Do you know when the last time we had an Arr of ZERO? Would you believe 12/18/73? And this is supposed to be a minimum, hi. Seriously, since this is the change in sunspot cycles, we can't expect things to be like 1964-65, but even in 1970, we had nine zeroes in Arr. We've had only ten "1's" since 1/1/73! I'm busily compiling a lot of analyses of the A-index over the past few years for either DX NEWS or monographs, at LPC's choice. Speaking of monographs, the lists are now available, and an announcement should appear from HQ shortly. In the meantime, anyone wanting a list, send an SASE w/35¢ postage to me & I'll get a copy out. If you've ordered one before, you'll get it automatically, hi. There've been several changes in format of it so read the introduction to the list carefully. Anybody interested in any sort of propagation research, etc. please contact me, and maybe we can get something going on that. 73 all, till July.

DAVE SCHMIDT - 43 Chelwynne Road - Castle Hills - New Castle, DE - 19720
 verie total is stuck at 889, these are the latest ones back: v/q- WTTT-1430, w/1- W-680 WGRG-1110 (says calls changed to WUPE 5/1), WRKO-1430, WRIC-540 & WDDL-1490 (PA 12:17- WZAP 690 & WHIM-1110 scribbled a line on the bottom of my report and shipped it back, WZAP the result of a f up. To the DX dept: 4/17- WURL-1500 12:50-1:06 am & w/ET, rr, & OC. They gave WTOP fits before s'off. WHIM-1110 in the clear w/WET off, 5:03-5:18am w/C&W mx. 4/22- WGRG-1110 12:13-12:25am ET w/mx & OC o/u WBT. 4/25- KBOQ-1020 TEST noted, mostly u/KDKA ET 2:06-2:25am w/TT & mx. TT was readable at one point while KDKA was running mx. Their old f/c was often heard in the same manner, but never ID-able. 4/22- A long shot on an r/c from WKRQ-710, DT u/WOR's yak-yak 1:30-1:40am, per the f/c list. 4/29- Local [redacted] evidently having line problems and all audio was lost from the NISFED, so u/their OC, WPAR-1450 ending NX, then s'off 1:05-1:08am. 5/3- WGOV-1340 12:16-12:31am w/rr, Ray Height Show. Many mentions of Uniontown being made also. 5/6- Shooker, w/WFOY-1240 f/c 12:17-12:24am way atop w.TT & IDs every minute, not listed on the f/c list. 5/9, first of many stationy MMs to come, but a report shipped to CK50-790 12:25-12:38am, weak, but atop. I believe new pest CHIC is off MMs. WTAI may have been off also. WSGW-790 was also noted running a PoP at the same time CHIC was heard w/one very weak ID noted 12:33. Radio Bishops noted loud on 900, giving CHML fits @ 1:10am w/rr. Is this an outlaw or maybe one of those Canadian net hookups? (I think 'tis CKTS, Dave - ERC) Upon listening to WAMS since going NRP, I have found them popping on and off during the day on Monday, evidently switching between the main and AXR to do work on the main XR, etc., since they dropped their MM SP. Their biggest lost programming effort is still SM, when they start their garbage programs at 4am and run them straight through till noon. Someone on the FCC should sit down and listen to the mess they've created, hi!

Easterners - go West. Westerners - go East. Southerners - go North. Northerners - stay in your territory. ALL may thus attend the NRC Convention in LINCOLN, NEBRASKA over Labor Day weekend. Thetime is getting close - there are only TWO MORE DX NEWSes between now and Convention time, so make those plans and reservations pronto. Don't miss the fun!

BILL COLEMAN Jr. - 114 Circle Drive - Rocky Mount, NC - 27881

Welcome to Kentucky Publishers committee! I guess a re-intro is in order here. I'm 32 years old, married, & working in my father's business who is president of a brick manufacturing plant. I was formerly a studio technician, 1966-70 for the N.C. News Net (WRAL-FM main relay station, Raleigh) used to be TN (Tobacco Net NX net). Also a partner for WRMT & WILY Wilson and WKBP Garner & Radio R.E.I. in Va. Class '71. My biggest desire is to own a powerhouse station one day! I will soon go take the technician amateur radio license or general, depending on how my code speed is at the time! I was ex-WN4AGN (1973) and ex-WN4CQI (1962), listed in both callbooks. A DX tip for 1280 kc/s.: WYAL, rr, Scotland Neck, NC, 5kw, has been signing off daily (seven days a week) @ 6pm right after NC NX net, @ 5:55pm. Slogan is Now Music People, WYAL. Local WRMT switched to the new studio site on Hwy. 301 South w/a new 148& tower, & Gates XR (they were remote control). Also are using the old XR for standby, listen out on 1490K. UPI NX on top of hour, & MoR/rr/oldies format. Local WCEC is now verifying reports that are correct, with return postage. WCEC is MoR, 810k, lkw day, & features NC NX Net. Not much DXing here, WHPY, Clayton, was on MM @ 12:15am w/a TT, ET, mc & IDs. A good possibility for a DX TEST from this one? Strong signal here o/WAKR (usually dominant on 1590 here). Only one verie in from WCVL-1550, says mine is first report from NC! It was for test on 3/28. I heard them using jingles using "Reaching out touching You, in (name of towns), Crawfordsville, IN, first time hearing this one. I have military surplus receivers, and Kenwood QR-666, Allied SX-190 SW RXes for sale. Write of interested & please watch DX-Change ads for info. Also, I'm looking for a good HQ-180. If you've got any tips, or technical questions regarding anything about the DX hobby, vally my DX Chat Line, seven days a week, from midnight to 3am EDT, prepaid (no collects) to 919-443-7282, also correspondence and exchanging cassettes or reels of air checks most welcome. Peace & 73s.

DCN KASKEY - 386 Geary Street - San Francisco, CA - 94102

DXing during the 1976-77 season was limited, mostly due to my wife of little more than a year frowning at my spending the wee hours out of bed. Understandable, though. I did manage a good bit of foreign DX during Sept-Dec. & a smattering of domestic DX since then. I spent the last several months' spare time putting my DX records in shape. Very interesting to note that during the period 1949-1953 I heard 1,815 stations, verifying 1,450 of them from my Galva, IA & Omaha, NE locations. I had a combined log due to the proximity of the two locales. This included 47 of the then 48 states. Only Vermont was missing. It also included seven provinces and only ten countries. Best were seven from HI, 4YA N.Z. & ACA, & 200W HOL from Panama. Texas led the states with 168 heard, and Cal. had 106. I DXed briefly from Wyoming, Texas and Iceland 1954-56, then to California in '57. Log here is 1,043 heard in 20 years, not quite as impressive as my Midwest log, hi. Only 41 states too. But quite a few more countries - 28. Frequencies are so crowded for domestic DX that it's hard to hold my enthusiasm. I did note KPOD-1240 in Crescent City, CA, ex-KPLY w/AN progressive 4/11 w/KROY @ 6:28. Also KYTE-970 in Portland, ex-KOIN on 5/23 @ 11:48pm. I will be taking a trip to the Midwest in August & hope to make Kansas City during it, so I may contact some K.C. DXers. Best catch of the past season was stumbling onto KNOM-780 Nome on 1/21. 73.

GENE ALLEN - 134 Bret Harte Way - Vallejo, CA - 94590

Little DXing here as most of my time is spent DXing the Ham bands. KXQR-790, Clovis, CA is now on RS, verified in 7/76 while on ET. Verie in from R. St. Vincent-705 for a new country. Hank Wilkinson & myself get together about once a month to rehash DX, stamps, Dow Jones, and play a little samba. Very little BCB DX due to too many ANs, TVI, power noise, etc. which do not bother 15 & 20 meters. Good luck to all.

STAN SHEDD - 1433 Fifth Street NW - Calgary, Alberta - T2M 3C1

A couple of brief announcements. CKSW, Swift Current, Sask. has finally made the move. They are now on 570 w/10kw. They put a reasonable signal into Calgary daytime, but some QRM from CKEK is inevitable. Oh the wonder of the CTCQ. Cross out regional in your NRC Domestic Log under 570 and write in "local", hi. The other item is a planned get-together here in July. Rather than set a date, I thought I'd throw it out and ask for suggestions. That way if anyone from out of town can make it, we can find a date to accommodate them. Just drop me a line or call prepaid 284-1996. If you live in Calgary, I'll try to get a hold of you, but if I don't, please call me. Till next time, 73s.

RICH EDDIE - 152 West Rose Street - St. Louis, MO - 63119

A big hello to all new members of NRC! Also greetings to members who have been in the Club for a while too. The biggest news is that I'm closing in on 1,000 veries - only nine away! Maybe by the time this sees print, I'll have the thousand veries. The other news is that semi-local KIRL-1460 St. Charles, MO is going nighttime w/500w. So far they have not been heard at night yet. ~~My totals~~ now are as follows: Stations: 1,299/991 for a 76.289453% verie return, states 49/49 for 100% - I still need Alaska, provinces 6/5 for 83.3% and countries - 23/15 for 65.217391%. I am mainly a domestic DXer. For those who wonder which stations verify bettee, Ks or Ws, here are my totals: K-calls: 487/386 for 79.26078% & W-calls, 693/550 - 79.365079%. As you can see there is not much difference between them. Not much else is new so I will s/off for now. I plan on being in LINCOLN for the Convention over the Labor Day weekend - will you be there? Good DX & 73s.

NEXT MUSINGS DEADLINE IN PROVINCETOWN IS SATURDAY, JULY 2. IT WOULD NORMALLY BE MONDAY 7/4, BUT IT IS A NATIONAL HOLIDAY AND THERE IS NO MAIL DELIVERY ON THAT DATE.

CHAPTER LII - "THE FIFTIES RE-VISITED - AGAIN" - by RON SCHILLER.

This is the way it was in 1954-1956 per Musings of the NRCers: Lincoln NE DXer Ken Murphy received New England veries from WAAB & WACE, both in Massachusetts! Fort Wayne's Don Roller heard his sixth Puerto Rican - WENA, as well as f/cs from Idahoan KCID-1490, & Wcers KSFE & KPWK, GYs all! Jim Critchett, then of San Diego, noted his 34th verie from 36 DXes that season (out of 96 scheduled), all by WLYN (MA) & KPQT having verified. The York PA DXer, J. Warren Routsahn, reported Mexicans YEAA-1340 & YEK-970 as well as ERs (Election Returns) from w/ROY-1240 Fla., WCLT-1430 & WHBS-1550, Ala. He & I both logged KBTA-1340, Ark., f/c May 1 rolling over Milwaukee's WEMP! Seymour, Conn. DXer Hal Williams reported his 35th Ontario verie to keep his reported record at 100% for the province, CK30-790. Scooter Seagraves, the Stuttgart, Ark. DJ-DXer caught the WSIG-790 DX run by fellow NRCer Phil Potter as well as Honolulu's KPOA. Sooner State DXer, Buddy Giles of Oklahoma City, noted Peace River, Alberta's CXYL-630 topping the above-mentioned KPOA! Then in Buffalo (though fortunately NOT for the Winter of '76/'77), Joe Brauner reported KLGR-1490, Minn. & XEHD-1430 both f/cing. Stan Morris' latest included 1YZ & Brazilian PRH2 one February MM @ 4 & later, WCKI, SC ETing & offering a prize for the furthest listener. Vermont's Hank Lyndall thought KLGH's 1390 DX a tough catch & prized his verie of CB106. July 24th, 1955 was the scene of a GTG of ERC, Bernie Duffy, yours truly, Pete Taylor (then of Miami, FL) at Hal Williams' home. Len Kruse, the 4,000+ Dubuque, IA verifier, wrote of KBRO's 1490 WA DX, KEYZ-1450 ND f/c, & KVRW, the 100-watter in OKLA on ET as well as (above) Scooter's DX from KAMO-1390, thanks to WFMJ's stand-by! Oklahoma was also represented in DX NEWS by Oklahoma City's Hank Ward, verifying Alaskans KINY Juneau, & KPQD Anchorage! Fellow Oklahoman Bus Boatman of Stillwater observed KBQI, Boise, as well as British Columbian CKNW-1320 & CJVI-900 on his PHILCO CONSLOE! The DXer from Schuykill Haven, PA, Ted Weiser, caught both WABL, Fla. & WTAY, Ill. through then-pet XERF, formers ETing. And as a sequel to Len Kruse's accomplishments, 1/16/56 saw him log five of the six scheduled DXes: WSUX-1280, Del., KYES-950 Ore., WBEU-960 S.C., CFRG-1490 Ont., & KERC-1430, Wash. Not a bad morning's DXing! Meanwhile, Houston DXer Mike Ferguson, noted that though CMGO normally dominates 1230, he'd managed to squeeze WNOR, Norfolk, through 'em! And - THAT'S THE WAY IT WAS - in the MID-FIFTIES!

WE AGAIN EXHORT THOSE OF YOU WHO GO BACK A FEW YEARS IN DX TO SEND IN SOME OF YOUR MOTHBALL MEMORIES FOR THIS COLUMN. WITHOUT SUCH CONTRIBUTIONS, THIS COLUMN WILL HAVE TO DIE. WE HAVE THE LAST CARROLL SETH POEM NET FOR NEXT ISSUE, AND THEN ONE MORE FROM OLD-FAITHFUL RON SCHILLER ABOUT DX IN THE FIFTIES. AFTER THAT - ??? IT'S UP TO YOU VETERAN DXERS IF YOU WANT TO CONTINUE THESE NOSTALGIC TRIPS INTO YESTERYEAR!

J. W. BRAUNER - R. D. 1 - Box 153 - Punxsutawney, PA - 15767

(Members, change Joe's address (box number) in your master address list in the 2/17/77 issue of DX NEWS - ERC) Time to wrap up another DX year. '76-'77 was not too bad, considering CX, ANs, etc. The log is up, 5,463 to 5,521. Five were logged via CPC TESTS, many more as a direct result of hot tips in DX NEWS. About a dozen via that very useful f/c list, including six from Kentucky. Veries from all those reported on TESTS. Also from all others reported except WVFC, on a rather meager report. Since 5/1 very little tuning was done, so little effort, little reward. I tried for the KBCQ TEST on 1020 4/25. KDKA, as usual, had its carrier on throughout the half hour. In addition they modulated with wx much of the time. A lucky break @ 1:15 let one definite KBCQ ID get through. After 1:30 some weak mx was heard, but seemed likely to be from Cal. On 5/2, the KAOL TEST was heard for a new one. The CIDs were easily heard, but the voice did not make it through the QRM. In closing, my sincere thanks to all the editors and the NJPC for a great job in keeping NRC & DX NEWS out in front of the crowd. Happy summertime to all. 73.

STEPHEN FRANCIS - 1620 Lodge Street - Alcoa, TN - 37701

Making it through the static crashes lately have been WAZL-1490 PA w/ID @ 1:29am 5/8 during Philles' WC game; WSFC-1240 KY w/local WBEI w.500 cycle TT & ID @ 4:15am on 5/14, r/c. 5/21- WCTR-1530 MD IDed as the superweak SSB heard all month @ 5:45am u/WCKY. MM 5/23- WKKY-930 FL fair w/WANT 3:30-3:38 w/ET, IDs every couple of minutes, musta been OC only. At 8:45pm, WLCK-1250 KY nabbed w/s/off plug for FM-99.3. 5/26- Finally, WEMB-1240 TN briefly o/WLET 7:08am w/local spot. D-1 @ 5,000w, at 92 miles, only took seven years to hear it! Closest unheard (38 miles) is still WBHN-1590 NC. Their being on the other side of a 6,600' mountain range probably has something to do with it, hi. MM 5/30- WWWW-1100 noted off for about the eighth consecutive MM, so hopefully they're back to a regular SP. 5/31- "HJJJ, Christiansburg" taped ID by woman heard @ 8:30pm on 1260; I presume the tail end of their s/off although m.ps say 8:15. See you in INDIANAPOLIS.

TONY LAGATTUTA - Box 6291 - Portsmouth, VA - 23703

Greetings. The following may be helpful. The Norfolk area has two new c/w mx stations: WOKT-1270 (ex-WTID), daytime. DX reports should be sent to Mr. Pat Wilson, OpM, EOKT Radio, 553 Michigan Drive, Hampton, VA 23669. WHNE-1350 (ex-WKLY-NIS), AM, IDs frequently as "Honey Radio." DX reports should be sent to: Mr. Bob Sinclair, Mgr., WHNE Radio, Box 1350, Norfolk, VA, 23501.

RAY ARRUDA - 48 Woodlawn Street - New Bedford, MA - 02744

I hope everyone is enjoying the Summer months. No DX here in quite some time, so very little to muse about. I tried for KDUZ-1260-TEST 5/10, which was not heard - this per ERC's phoned tip. Three veries were received the same way are back from WWO-1080, KVOX-1280 & WFKY-1560. I mentioned KYMN-1080 as being verified not too long ago for their 2/21 TEST, but they have not yet answered my reports, so maybe a f/up is in order. See you all in

(Arruda) in the Fall. LINCOLN and YAD are out for this year, but a good possibility for '78.

ERNEST R. COOPER - "The Cape Twp Dier" - 5 Anthony Street - Provincetown, MA - 02657

With Summer upon us, let me invite anyone travelling to Provincetown or any part of Cape Cod to pay a visit! Just leave now a few days ahead. CHY Local WJLC-1170 will begin separate programming from WJLC-FM the day most of you read this, 6/28. WJLC remains WFL-KLZ. WJLC-FM goes "contemporary," while the AM's on, then mostly classical at night. New voices: WJLC-1300 "Radio Tigre" w/q-n. WJLC-1430 w/f-CH. WJLC-1570, v-l-CH. WJLC-1530 w/f. For 4,049. I guess you've all found out that Mutual has dropped Herb Jepko in favor of the Long John Bellet-Candy Jones show originating at WJLC-570, but Herbie is still on WJLC-1090, KTRH-740 & ESL-1160, plus about five others, and is working now to build his own special early-AM network. And, Berry Farber is about to leave the WJLC-710 AM show. Time marches on, and the old order changeth, yielding place to new. Local WJLC-1330 now a/ off @ 1 or earlier daily; new local WJLC-1150, ex-WJLC a/ off around 1:30 or 2 daily so we've lost an Alter! Hooray! DE: 5/7- UNID-TT-1500 2:21 +, varying tones. SM 5/8- Report to PFC CHRM-1290, AM SMs only, apparently. MH 5-8- TTs on 1430 @ 1:38; 1500 @ 1:40; 1310 @ 2:14; 1090 @ 2:24; 930 @ 2:44. WJLC-1400 noted on, maybe MSP now, rr. WJLC-1340 topping w/IDs of "Lucky 13" now that gambling has been approved for Atlantic City. Paradise on AM on 1265, as usual, the AM following Mothers' Day, with dedications to mothers, hymns, of course. 5/10- Re. we've lost another Alter around here: WJLC-1480 now a/ off daily @ 1. TTs on 1270 @ 1:15 & 1530 @ 1:37, & 1090 o/a WJLC @ 2:21. WJLC-1300 noted AMing due to bad storm. 5/11- WJLC-1460 is mostly teletalk AMs now, w/a little c/w. WJLC-1390 on top @ Jan ID. WJLC-920 has a cute promo - on TV & radio both - They say between the "noise" (WJLC-630), the "news" (WJLC-790) & the "snose" (WJLC-990) you'll find one you like - WJLC. 5/12- WJLC-1590, Ocean City MD is back on & is AM again, noted w/WJLC & o/WJLC today. More TT on 1530 today. SM 5/15- WJLC-1110 on today & off MM 5/16, but back to normal the following week; odd. TT on 1590 @ 1:32. MH 5/16- WJLC-1140 is now AM M's & off SMs, copying WJLC w/AM o/w for trucks. Today's TTs were on 740 @ 1:43, 980 @ 1:55, 1400 @ 3:13. WJLC-810 was an OC only & a report off to R Super. WJLC. ASing. 5/17- TT-1600 12:55am. Orioles' BB noted on 1490 @ 12:58, unID. 5/20- Tentative to WJLC-1570 r/o-OT 1:15-1:30, way w/OJLC & even w/EXX. TTs on 1420 @ 1:40, 2:20. 5/21- Uno WJLC-1530 T7ing @ 2am even w/WJLC. SM 5/20- Mystery tester on 1550 most of AM, no words, who was he? MH 5/23 - WJLC-1590 heard a/ off @ 3:05 to return @ 5. New AM on 1600, c/w is WJLC. Also CFOT-1270 AM, PFC. 5/24- My annual report off to IEVIP-1550 - one of these years I'll pull a ve 18, or w/ name pin't Obadiah T. Whistabrishes, hi. 5/25- TT-1140 u/WJLC 1:18 & on. 5/27- EFL on 1450, the ID sounds like "This is Love, WJLC" - what? C U N 28,

THE "NEW" STYLE WON OUT FOR THE VERIE-SIGNERS COLUMN, with FOUR votes FOR it, and NONE against it, and 700 ABSTAINING, hi. LET'S HAVE THOSE RECENT VERIE SIGNERS, PLEASE! BRIAN VERNON also sent in the TORONTO BLUE JAYS' network. MIKE WHELAN writes to say to remove CKLB-1350 from that network; they are carrying the Montreal Expos, in English.

Raleigh, N.C. News & Observer, Sunday June 5-77

Greensboro Pair Wed

via BILL COLEMAN, Jr.

During Radio Program

GREENSBORO (UPI) — A couple was married in a radio station studio Friday in a broadcast ceremony that left at least two listeners in a nearby office in tears.

In what station manager Tom Miller called a revival of the old "bride and groom" shows that were on radio for about 25 years, Carolyn Jones of Greensboro and Kenneth B. Deadmon of Atlanta exchanged nuptial vows in ceremonies broadcast by station WJLC.

Miller, who gave listeners a play-by-play account of the ceremonies before turning the microphone over to the preacher, said about 50 secretaries in an adjacent office listened to the ceremonies. He said he walked into the office fol-

lowing the marriage and found two of the girls in tears.

"Everything went beautifully," said Miller. "We wanted to avoid the circus atmosphere."

The bride and groom were in formal attire and were accompanied by a best man and bride's maid as they walked down the station's hallway to the strains of five of Miss Jones' favorites pop songs. The ceremony took place shortly after 8:30 a.m. under a magnolia trellis set up in one of three studios.

The couple was married by the Rev. Nelson Hodgkins after Miller's commentary on the proceedings. "I pulled the old bride and groom trick," Miller said, "the bride is reaching the chapel, that kind of

thing.

After the short ceremony, the two were whisked away to a reception in a 1977 silver Cadillac owned by a woman who pulled up at the station and volunteered her services.

The reception was donated by a local hotel and then the couple embarked on a one-week honeymoon donated by the Myrtle Beach Chamber of Commerce.

About 35 persons attended the wedding.

Miller originated the idea, and went on the air asking for volunteers to be married. "Within two weeks, more than 20 couples volunteered. They sent portfolios with pictures and something about themselves," he said.

Miss Jones said before the wedding that she had always "been a private person." But added, "This has been so fantastic. I'm meeting so many great people."

Station	City	AM	FM	Power	D - Day
WFEG-FM	Altoona, PA		98.1	30,000	N - Night
WBFD	Bedford, PA	1310		5,000 D	
WAKM-FM	Bedford, PA		100.9	3,000	
WTRL	Bradenton, FL	1490		1,000 D, 250 N	
WBSN	Clarksburg, WV	1400		1,000 D, 250 N	
WCVI	Connellsville, PA	1340		1,000 D, 250 N	
WWCB	Corry, PA	1370		1,000 D, 250 N	
WCBC	Cumberland, MD	1270		5,000 D, 1,000 N	
WCED	Luzois, PA	1470		5,000 D, 500 N	
WCED-FM	Luzois, PA		101.2	9,500	
WLEM	Emporium, PA	1250		1,000 D	
WTCS	Fairmont, WV	1490		1,000 D, 250 N	
WFAR	Farrell, PA	1470		1,000 D, 500 N	
WFRA	Franklin, PA	1450		1,000 D, 250 N	
WVEN	Franklin, PA		99.3	3,000	
WHUN	Huntingdon, PA	1150		5,000 D	
WRLR	Huntingdon, PA		106.3	3,000	
WJNL	Johnstown, PA	1490		1,000 D, 250 N	
WJNL-FM	Johnstown, PA		96.5	50,000	
WKLP	Keyser, WV	1390		1,000 D	
WKLP-FM	Keyser, WV		94.1	6,000	
WVCC-FM	Linesville, PA		101.7	3,000	
WKST	New Castle, PA	1280		1,000	
WMSG	Oakland, MD	1050		500 D	
WNSG-FM	Oakland, MD		90.1	430	
WKKA	Pittsburgh, PA	1020		50,000 Clear Channel	
WKBI-FM	Ridgeway, PA		94.3	740	
WKBI	St. Marys, PA	1600		1,000 D, 250 N	
WSOM	Salem, OH	800		500 D	
WSOM-FM	Salem, OH		105.1	100,000	
WVSC	Somerset, PA	990		500	
WFEG-FM	Somerset, PA		97.7	3,000	
WJTV	Steuenville, OH	1340		1,000 L, 250 N	
WJTV	Titusville, PA	1290		1,000 L, 250 N	
WJTV	Tyrone, PA	1340		1,000 L, 250 N	
WJTV-FM	Tyrone, PA		101.1	6,800	
WJTV	Uniontown, PA	590		1,000	
WJTV	Waynesburg, PA	1580		500	
WJTV-FM	Waynesburg, PA		103.1	3,000	
WJTV	Youngstown, OH	1790		5,000	
WJTV	bellefonte, PA	970		1,000 D	

The 1977 annual convention of the Association of North American Radio Clubs (ANARC) will be held July 15-17 at Schaumburg, Ill, home of the Woodfield International DX Club not to mention Woodfield--the world's largest shopping mall. All DXers of any age, beginners to advanced, are invited to attend, meet their fellow DXers and hear prominent speakers at this all-wave session.

For more information or reservations, contact the Woodfield International DX Club, P.O. Box 95073, Schaumburg, Ill. 60195. Please enclose a SASE, mint Canadian stamps in Canada or three IRCs outside North America.



VERIE_SIGNERS

A - Neil Zank	H - J. Trochimczyk	1240	WATN ml	(G. Harry Righter, P		
B - Ron Schiller	I - Dave Schmidt			(Donald Schryuer, CE		
C - Ray Arruda	J - Harry Hayes	1260	WNDE fh	(Ronald P. Hyer		
D - Jim Critchett	K - Ron Musco		l	(Bob Hyatt, E		
E - unsigned	L - Stan Morss		WEZE q	Barney Lyon, CE		
F - Steve Ponder	M - Mike Bischoff	1270	KBAM ulm	David Peterson, PD		
G - Mike Tuggle	N - Ernie Cooper	1280	CJJD fm	Bruce Dingwall, C.E.T.		
		1290	KDMS p	John Pratt, GM		
340	WRIC l	C. D. Lawson, GM	C	KHSL ur	George Wussow, CE	
345	Jumbo ln	P. Meyer, Dir. Gen.	E	1300	WTNJ l	Barry E. Steiner, CE
350	CFNB q	G. D. Love, TD	I	1310	KCKY q	Stan Harrison, CE
380	WIEW mq	u/u	F	1320	KCPX uq	(William E. Wright, SM
	WCHS qu	D. Newhouse, CE	H		ul	(Rachelle Gibbons
	KCMX ru	E. Whitman, CE	H	1330	KLAN ur	W. H. Sadler, Jr., P, GM
420	WSUN mq	Stanley K. Jarvis, ACE	M	1340	WJPS lm	John Buck, CE
	KWSD ru	David H. Rees, M, CE	H		WPEM l	G. Michael Hurst, Mx D
530	KHOW q	George Vogel, CE	F		WTRG l	Allen Strike, PD
570	WMAQ f	W. E. Newbrough, SuprTechOp	F		KLBK l	Chuck Spaugh, SM
580	KFEQ q	Donald E. Moss, Cop	MF	1350	WLLY p	Ray Frazier, M
730	YEX ln	Gloria E. Parada, S de Dir.	F	1360	WNSR lh	Rick Levy, CE
740	KYME f	Tom Hotchkiss, GM	D		KDKI p	B. Strange, GM
	KRME fm	Ty Stites, Stu Su	M	1370	WZQ l	Howard C. Fisher, CE
770	KXA lu	William G. Shephard, CE	H		KAPB p	Donald Bordelon, CE
790	WSGW lm	Rick Belcher, OpM	K		WFDR p	u/u, P
800	WLAD q	R. Cehok, CE	E		KEEN ul	George D. Snell, GM
	KHIS lu	Don Kuhns, M	H	1380	WAOK l	Ivan Miles, CE
850	KOA qu	u/u	H		KSWC p	Ben Knight, PD
	WJW q	u/u	M		KJET p	Lloyd Jones, PD
880	WRFD q	Harry W. Jackson, CE	M	1390	KCRC l	Pat Murphy, VP
910	WDSM q	C. G. Williams, E	A		WTJS f	Carl Martin, CE
	WGBI l	R. E. Leach, CE	E	1400	WKWK l	Jack Rees
920	KYXX l	Scott James, PD	F		KIUN ul	Bill Hubbs, O
	WJAR q	Wyatt McDaniel, CE	H		WORD fhm	T. McNally, TD
	KITN ru	E. Whitman, CE	H		WJLB p	Thomas Christie, CE
950	KLIK fm	Tom Holmes, E	M	1420	WKPR f	Kenneth Eyle
930	WKXJ lm	Robert Kohlmeier, CE	M	1430	WRXO l	H. W. Winstead Jr., GM
950	KYES lu	Darell Rogers	H		WCMY f	Kent Hawthorne
970	WEBR q	Donald N. Lange, TD	H		KARM ulm	Scott Dean, DE
	WCSE f	Herbert W. Crosby, GM	H		KAOL fm	Mike Thayer
	WESO mq	Richard La Vallee, CE	H	1440	WNGR l	Michael J. Marcy, CE
	KOIN lu	Herbert Davidson	H		KMRD ulm	Ellis Feinstein, DoE
100	CFPL f	Bill Brady, PM	M	1450	WIBM l	John W. Cooley, CE
	CHEX q	Brenda A. Bolton	J		KOBO ul	Ross W. Forbes, Op M
990	KWAM m	B. W. Travis, CE	MF	1460	WBUC q	Michael R. Betler, CE
	WHOO fm	E. Miller, CE	G	1470	WSRO l	Robert Lupien, CE
	KLRA q	Blande Perry, CE	F		CHOW l	Larry Holleran, E
1030	WBZ q	u/u	F	1480	KYOS ufm	George Smeade, CE
1350	XEG q	H S Schwartz	M	1490	KERO ul	Ron Rogerson, SM
1060	WQIO	Jon Beebe Truman, Assoc.E	M		KVWC l	Greg Givens, Trf D
	WRMF l	Alan T. Sterger, CE	C		KRNR ul	Gregory K. Johnson, CE
	WKKQ l	(Robert Meyer, NxD	C		WFAD l	Lawrence C. Maier, CE
		(Scott Davis, CE	C		WMRB lm	William Arrington, M
1090	WIID m	u/u	M		KNOW l	Wayne Hardin, TD
	WILD l	Robert Wotiz, CE	CH	1500	WFIF f	Alex Fraser, CE
	WBAL mq	Rowland Kraft, CE	M		WAKE l	John S. Bowker, NRC
1100	WGPA l	Arthur H. Holt, O	M	1510	WJIC l	Ben Ferguson, CE
	KREX q	(Al Ladage, CE	M		WTHO lm	M. Thomaston, S
		(Carl Anderson, GM	M	1520	WVOE f	R. Nicholson, CE
		(Rex Howell, Chmn of Bd.	M	1530	KFBK q	Dale B. Harry, CE
1110	KPOP lu	Wes Meyers, OpM	H		WCTR l	Robert Nafzinger, PD, CE
	WKRA l	Jimmy Dale, M	M		WDJZ fhm	James Elmore, ACop
1140	KLUC q	u/u	F	1550	KOQT l	Ronald Cowell
	KNAB l	Betie M. Bailly, CE	F		WMOO l	Wilbur H. Goforth, GM
1150	KAGO lu	Ed Tomlin, E	H	1560	WBUC l	David C. Doubleday, CE
	WIMA fm	James S. Hartzler, DoE	KM		KIQS ul	Fran Mahon, S
1160	WJJD q	Don Jeffries, CE	FH	1570	WTOU ul	Susan L. Fisher, Coml M
1220	WKRS fm	Verne Buland, CE	M		WYHI lm	Steven Shilts
1230	KEXO urm	Kathy Shupe, OM	H	1580	KTLU r	Bob Rogers, GM
	KGEE uq	Steven Mull, CE	H		WANB l	Abe Albright, GM
	WAYX l	Stuart Graham, CE	J	1590	WEHH l	Frank P. Saia, GM
	KAAA l	Lyle C. Henry, CE	D		WMDM l	Ed Rumano, M
	VOZA l	Jim Simpson	B		WCEB l	Cindy L. Secrest, Cont'y D
	KNUZ ul	Johnny Walker, CE	B	1600	KBBB ml	Gayland Darnell
	KMCI l	Jim McCall, GM	D		KUBA lu	David Remond, AE
1240	KCLV ml	William R. Hays, CE	F		Keep	'em comin', gang! Thanks for support!

- AN - All night
- ANARC - Assoc. of North American Radio Clubs
- BBC - British Broadcasting Corporation
- BPC - Former Boston Publishing Committee
- CEC - Canadian Broadcasting Corporation
- CE - Chief Engineer
- CH - Critical Hours; period when some stations change power or antenna.
- cl - Classical music
- CM - Coverage map; showing primary & secondary coverage areas
- CP - Construction permit; new station
- CPC - Courtesy Program Committee; NRC group which arranges special tests from hard-to-hear stations.
- c/w - Country & western music
- CX - Reception conditions
- DA-1 - Station with unlimited hours of operation; same pattern day and night.
- DA-2 - Unlimited hours of operation; but different pattern day and night.
- DA-N - Unlimited hours; directional pattern nights only
- EF - Direction finding
- EOT - Department of Transport (Canada)
- LU - Low under (Australia & N. Z.)
- LXN - LX News; magazine of the NRC
- EBU - European Broadcasting Union; station list produced by them.
- ET - Equipment test.
- FBIS - Foreign Broadcast Information Service; radio arm of the CIA
- F/C - Frequency check
- FCC - Federal Communications Commission
- FFC - French Canadian station
- Freq - Frequency
- f/up - follow up reception report; a copy of initial report sent to a station after no response.
- GCP - Great Circle Path
- GCIIB - Great Circle Initial Bearing
- G - General Manager
- GST - God Save the Queen
- Het - Heterodyne
- ID - Station identification
- IRC - International Reply Coupon; form of return postage available from the Post Office.
- kHz - kilohertz; same a kilocycle
- Kw - kilowatt; 1,000 watts
- LA - Latin America(n)
- LFC - Louisville Publishing Committee; volunteer group responsible for operation of NRC & production of LX News.

LANGUAGES:

- AA - Arabic
- LD - Dutch
- EE - English
- FF - French
- GG - German
- II - Italian
- PP - Portuguese
- RR - Russian
- SS - Spanish

LETTERS AND SIGNS

- A - Approximate frequency
- M - Measured frequency
- V - Frequency varies

- LPRT - Low Power Relay Transmitter; 20 or 40 watt remote & unattended Canadian station.
- LW - Longwave; band below 529 kHz
- MM - Monday morning
- MOR - Middle of the road music
- MW - Medium wave
- MX - Music
- NARBA - North American Regional Broadcasting Agreement
- ND - Nondirectional antenna pattern
- NJPC - Former North Jersey Publishing Committee
- NRC - National Radio Club
- NSP - No Silent Period
- NX - News
- o/ - Over
- OC - Open carrier; no modulation
- PD - Program director
- PoP - Proof of performance; test conducted by stations upon request of FCC
- PPC - Prepared card; verification card prepared for a station to sign & return.
- PSA - Presunrise authorization; special provision allowing station sign on before local sunrise with reduced power.
- QRM - Interference
- QRN - Static, natural or man-made
- QSB - Fading
- QSL - Verification of reception
- QTH - Location
- r/c - Regular monthly check
- RR - Rock and roll music
- RX - Receiver
- SA - South America(n)
- SASE - Self-addressed stamped envelope
- SC - Top 40 record survey list
- SM - Sunday morning
- SM-1 & SM-2 - Space Magnet antenna
- S/on - Sign on
- S/off - Sign off
- SP - Silent Period
- SRS - Sunrise skip reception
- SSB - Star Spangled Banner; also Single Side Band
- SSS - Sunrise skip reception
- Stn - Station
- SW - Shortwave (above 1620 kHz)
- TA - TransAtlantic
- TC - Time check
- TP - TransPacific
- TT - Tone test
- TVI - Interference produced by TV receivers; sounds like a buzz every 15.75 kHz
- u/ - under
- unID - Unidentified
- Unn - unneeded station
- v/c - Verification card, typed
- v/f - Verification form letter
- VJ - Vane Jones station list
- v/l - Verification letter
- v/q - Verification card, printed
- VOA - Voice of America
- v/s - Verification signer
- w/ - with
- WRTVH - World Radio TV Handbook
- WWV - Standard time and frequency station
- WX - Weather
- XR - Transmitter
- YL - Young Lady
- 73 - Best regards

Bootleg - See pirate
 Loop - Loop antenna for broadcast band reception; also means direction finding.
 Pattern - Map showing station power in various directions; see NRC Night Pattern Book.
 Pirate - Unlicensed radio station; some are commercial offshore ship operations.
 Primary coverage - The area of strong groundwave reception from a radio station.
 Ramadan - Moslem holy month in late fall; many Arab stations stay on the air all night.
 Secondary coverage - Area with good reception at night via skywave.
 // - Parallel operation; stations carrying identical programming.

SPECIAL TECHNICAL TERMS:

Afr - Fredericksburg index of geomagnetic disturbance; the best measure of high latitude auroral conditions.
 Aurora, auroral oval - High latitude region of extreme absorption to Medium Wave signals; related to the Northern lights and magnetic storms.
 Beverage antenna - Special type of antenna for Long Wave & MW DX reception; very long, low, single wire with special ground connections.
 E region - Region of ionosphere where daytime MW signal absorption occurs; Height: 40-100 kilometers; involved in auroral disturbances.
 E layer - One of the main reflecting layers for MW signals at night. Height about 105 km.
 E20 - Computer program to predict dawn-induced fadeout times of specific stations.
 FET - Field effect transistor; used in amplifier for a MW loop.
 FET AAZ loop - FET Altazimuth loop antenna; high gain and very deep nulling capabilities.
 F layer - Main reflection layer along with the E layer; responsible for night MW DX reception. Height varies from 260 to 400 km.
 Geomagnetic - Pertaining to the Earth's magnetic field; strongly affected by auroral disturbances.
 Ground Wave - ~~M~~ signal component which travels along the surface of the ground; most daylight reception is by this mode.
 Heterodyne - Audio tone produced by two stations close in frequency.
 Mechanical Filter (MF) - Electronic component which produces improved receiver selectivity for separation of stations on close MW frequencies.
 MWA - Midwinter Anomaly. A well established phenomenon, which produces days of unexpectedly weak signals during midwinter months; most evident during high sunspot activity.
 Null - Direction of minimum signal pickup from a loop antenna; the act of eliminating reception from a station with a loop antenna, e.g., "XABC was nulled out".
 SAH - Subaudible heterodyne produced between stations so close in frequency that the beat-note tone is not audible; sometimes shows up as the wavering of the S-meter needle.
 Skywave - The signal reflected from the layers of the ionosphere; primary mode of MW reception at night, as distinguished from groundwave.
 Splash, sideband splash - Crashing sound produced by programming of a strong station on a nearby frequency; reduced or eliminated by mechanical filters, a loop antenna, or both.

Mail to: Neil G. Zank, 2445 "E" St., apt. 6, Lincoln, Nebraska 68510

PLEASE COMPLETE ALL ITEMS

Name _____ Phone _____

Street Address _____

City _____ State _____ ZIP _____

_____ I plan to attend the Convention
 _____ I will stay at the motel.
 _____ I will not need accommodations at the motel.
 _____ I will / will not (Circle one) take part in the buffet-banquet.

I will arrive by _____ at _____
 (transportation) (date, time, flight number, etc.)

NRC Lincoln Convention registration fee is \$ 15.00, including costs of refreshments, hospitality room, meeting rooms. We urge you to preregister no later than August 7, 1977. Late registration will open at 3:00 PM Friday September 2, 1977 at the motel Convention site.

We also urge those of you who are interested in attending the Convention, but who do not have transportation, to write. We will do our best to try to arrange any carpooling that may be possible.

Fraudulent Billing Blamed

Charlotte Observer Via Kelly Andrews.

Radio Station Could Lose License

By FERREL GUILLORY
 Washington Correspondent

WASHINGTON — The Federal Communications Commission (FCC) is expected to rule in three or four months on whether to revoke the license of Raleigh radio station WLEE for alleged fraudulent billing practices.

WLEE, whose programs are oriented to the black community, would be forced off the air if the FCC decides to revoke the license.

A year ago, FCC administrative law judge Ernest Nash ordered WLEE to pay a \$10,000 fine after ruling that it falsely billed advertisers in violation of commission rules. However, the FCC's Broadcast Bureau contended that the fine was not a strong enough sanction and appealed to the full commission to take away the license.

The commission heard arguments in the case Thursday, during which a representative of WLEE ownership admitted "we

were wrong" but contended that the problems have been cleared up.

According to John T. Kelly, a Broadcast Bureau legal counsel, WLEE billed 120 advertisers for \$60,000 worth of commercials that were never broadcast and also engaged in double-billing of the Gulf Oil Corp. These practices took place in the period 1971-73, he said.

A central issue in the arguments before the commission was how responsible should Wallace Hankin, principal owner of WLEE Inc., be held for the improper billing practices. In calling for license revocation, Kelly charged that Hankin "failed grossly to supervise the employes of the station."

Hankin hired James H. Dulaney to be general manager of the radio station. The administrative law judge found that Dulaney had pressured another employe, Barbara Daughtry, who handled program logs, into preparing false information about whether commercials had actually been

broadcast. Representing Hankin, attorney Vincent A. Pepper told the commission that the fraudulent billing "occurred not because of Mr. Hankin's direct knowledge. Trust was placed in two employes and that trust was violated," said Pepper.

Hankin's attorney said corrective action was been taken: restitution has been made to the advertisers, Dulaney was fired and new management procedures were instituted to guard against a repetition of fraudulent billing.

Pepper said WLEE agreed that "a fine is appropriate" but asked the commission not to go so far as to take away the license from Hankin and his company.

Following the oral arguments, commission members went into closed session to give instructions on the preparation of an order in the WLEE case to the staff. A final FCC ruling is anticipated in three to four months.

VILLA LUX HOTEL - LINCOLN, NEBRASKA

ROOM PREFERENCE, NATIONAL RADIO CLUB CONVENTION, SEPT. 2 - 4, 1977

Name (s) _____

Street _____

City _____ State _____ Zip _____

Room preference: _____ One person - \$ 18.00 per day

_____ Two persons - \$ 23.00 per day

_____ Three persons - \$ 26.50 per day

_____ additional person - \$ 3.50 per day

Departure Date _____

Rates are subject to change.