From the editor...

Thanks to Al Muick (see his Musing on p. 22) for phoning me from West Germany (!) and offering to help anyone who needed advice on technical matters. And thanks also to those who are arranging tests, supporting the columns, sending me articles and clippings, etc. YOU are what MAKE the club what it is through your contributions.

They joined... John Mars, Madison, WI; Jerry Kobierek, Appleton, WI; Jack Snyder, Scranton, PA; and (rejoining) Ken Onyschuk, Country Club, IL.

Honors... to NRC'er Pete Kemp, a frequent contributor of radio news, who was recently selected for the 1988 edition of Who's Who in American Education. Pete is Coordinator of Technical Education at Ithiel Middle School, CT, and was cited for his contributions to the development of technology education programs. He is a frequent user of radio in the classroom. (via Ray Broadcasting)

SASE's... to the following will get you information: DXCALCoMANIA (c/o NRC'er Mark Strickert - 3952 N. Oconto - Chicago, IL 60634) is a club of collectors of broadcasting paraphenalia, especially stickers and paper. Add US$1.00 for a sample bulletin (US$1.25 in Canada, US$1.65 to other countries). Mil-Spec Communications - P. O. Box 461 - Wakefield, RI 02880 offers reconditioned communications radios, guaranteed, plus new receivers.

DXChange... Paul V. Zecchino (president of Mil-Spec) has several Chrysler and Delco AM/FM car radios, both digital and analog, @ $65 checked, peaked, and guaranteed to work well. Use the above address or call (401) 783-7105.

DX Change... Rick Dau's 940 unID is most likely WYLD (New Orleans) (see p. 11) who need all the listeners they can get! I've heard them often in Kansas, and that signal does indeed dominate when XEQ is not in.

Keep thinking DXCon '89 Topskal 73 - pls.
CITY is now KEMX and 620 Hanford, CA remains KCLQ. Whew!

*Call prior to the KCLQ request and before the assignment of KEMX to KCPX appeared the call on the air. Here's how it unravels. KCLQ-620 Hanford, CA requested 1190 WHMT TN Humboldt: reduce power to 420 watts

1160 WFEN MI Fenton: WACY 1540 KDID AR Sheridan Kght

GRANTS FOR NEW STATIONS

1200 NC Atlantic Beach: 5000/1000 W (corrects /100 from last week)

GRANTS TO EXISTING FACILITIES

1150 KLIS CA Santa Rosa: light power to 5000 watts

1190 WHMT TN Humboldt: reduce power to 420 watts

1410 KGRN IA Grinnell: reduce power to 300 watts

APPLICATIONS / GRANTS FOR NEW STATIONS

1200 NC Atlantic Beach: 5000/1000 W (corrects /100 from last week)

1110 KFLS CA Santa Rosa: night power to 12500 watts

710 CJRN MO Niagara Falls: day power to 10000 watts

1320 KHSJ CA Hemet: add 300 watts nights

1580 KNUS NM Albuquerque: relocate XR

1390 WJIB ME Gorham: to 870 kHz with 5000/500 W

OTHERS

740 WRPX WI Hudson: silent station is back ON THE AIR

870 Wappen ME Hallowell: application for new station DISMISSED

1070 CKST AB Saint Albert: ex-CB-GM is presently operating with 1W antenna and full power until switch to 1200 kHz which is expected in mid December. Antenna on 1200 kHz will be U3, per station. This would indicate a change for Langley, BC-800 but so far we have not seen any such change listed. Can a member who can hear this station please check this out?

1110 KHEI HI Killeen: station is SILENT

1200 WCHB MI Bay City: now being heard by FCC as a "grant for new station" and thus issues go actually is a grant to modify the license city of license for this existing CP for WCHB WO? age to this frequency

1340 WOWO NC Greencastle: station is back ON THE AIR

1380 KLWX HI Pea Ridge: station is back ON THE AIR

1410 WSTL NY Schenectady: station is back ON THE AIR

1420 WWAK FL Keys: station is back ON THE AIR

1570 WWNO NY Fredonia: station is back ON THE AIR

73 and Good DX,
1170 KVGO OK TULSA - 10/28 1932-45 nx, KVOC Color Radio Wx; 1640 AM & 40kW @ 3900 ft. a good location for the DX community.

1200 WBZY PA NEW CASTLE - 10/21 1940-48 ROK kW, ad swept. ID: AM-1200, 871; 1200 as WZRM in Feasterville, PA; 1200 H. S. usually heard on 1200 kHz @ 101.7 for a good location on the air pattern change.

1210 WHXX MI FRANKENMUTH - 10/21 1900 good with ID & sign-off amnts, inviting listeners to tune to their sister FM station on 101.7 for a good location on the air pattern change.

1220 WLKM IN SALEM - 10/29 1918 good with Iowa vs Indiana FB (RD-IA)

1230 WKRT WESTERNY - 11/24 1930 tuned to WEYRI, ad for Dodge dealer in Weehawken, N.J., into Candidate Forum pg. (EJ-NJ)

1250 KCFI IA CEDAR FALLS - 10/29 1851 fair with Iowa vs Indiana FB (RD-IA)

1250 WHNY NY MCCOMB - 10/20 2056-2111 alone with HN; ad for Southern Methodist Univ. in McComb @ 201-215 (RD-IA)

1250 WVAM IN DANVILLE - 11/1 1828 ID: Come Home to Country DVA; over/under prewar WAVE with Al Green record (EJ-NJ)

1270 WCMF CHARLESTON - 10/25 1954-41 in WCMF null with Market Watch aug nx. CW, w/ 20/20 wx; report sent (WCM-SD)

1280 WSPR TN SPRINGFIELD - 11/1 1939 gave phone # for contest, (1413) 781-1270; ad for Harvey Ford, a Pontiac-Olds dealer on Liberty St; poor, faded out quickly (EJ-NJ)

1280 WGBF EVANSVILLE - 10/24 2334-35 good with promo for Indians U. FB; Join us this Saturday at the Iowa Hawkeyes Invade Memorial Stadium-Don't You Know What the Night Can Do by Steve Winwood (RD-IA)

1290 WHVR PA HANOVER - 10/27 1805 fair with The Community Crier with local events (EJ-NY)

1290 WDRJ KY LOUISVILLE - 10/27 1800 good with igl ID, local nx, stock report, Accu-Wx; FM simul (LJc-NY)

1300 KOWY KY LAMARIE - 10/23 2335 over/under KOWL with ment of Colorado (EJ-NJ)

1320 WARA IA ATTLEBORO - 10/26 1947-07 good with astrology computer-directed telephone-talk show; Real Talk Radio slogan; AP Nx 1400 (BH-NJ)

1330 WFBC SC GREENVILLE - 10/18 2159 fair with nx, IDs as: AM-850 & WFBC-AM (RD-IA)

1390 WLAM PA LANCASTER - 10/26 1810 good in Weeked null with songs by Aretha Franklin. The 3 Degrees: All older's all the time on WLAM sign (EJ-NJ)

1410 WING OH DAYTON - 10/31 1645 with OLD nx, many Wing # Dayton nents, female DJ: well over WELM (WRH-NY)

1420 WCQF KY GOSPELSVILLE - 10/26 1805 fair with Chester City 4Cast (LMc-NY)

1430 WWAV NY ALTOONA - 10/27 1835-2050 with live ad, CW & w/ 20/20 wx; report sent (LJc-NY)

1440 WEZI TN GERMANTOWN - 10/26 2236 fair+local-like with in Memphis, we play the easy-going favorites. WEZI 1430-light AC, Notes 41 satellite service, same as KJY 96.3 St Louis (EB-GA)

1440 WACK OH WARREN - 11/1 1902 ABC Rx; ad for Liberty Mutual. SID: fair (EJ-NJ)

1460 K5O IA DES MOINES - 10/20 2156 good with CW & w/ 20/20 wx; ID: Iowa's first AM, #30, Des Moines (MS-ON)

1470 WSMR SC MARLBORO - 10/28 1725 good with My Love by Paul McCartney (LJc-NY)

1480 WJDJ IL JERSEYVILLE - 10/14 2045-2104 good with Greenfield vs Carroll; HS FB. 11cl ada (RD-IA)

1500 W2AY VA SALEM - 11/1 1915 ad for Vinton Land Homes (guess they mean Trailers), Hulen's Auto Parts; echo ID; fair in WJIT null (EJ-NJ)

1490 WLDC IN FORT JERVIS - 10/28 1730 up briefly with local nx (LJc-NY)

1510 WLAC TN NASHVILLE - 11/1 1936 ad for Lenten Insurance. ID: Exodus, Arthur's Furniture ads, then: home tx 39kpt pgt (last caller was from Dayton Bac); fair, under WSSH (EJ-NJ)

1520 KOMA OK OKLAHOMA CITY - 10/28 1949-59 good with OLD, frequent IDs as KOMA-3520 & Oklahoma's Oldest Stn; lost to pattern change 1945 (JC-SC)

1530 KJAA UT STOUTHOUR FALLS - 10/18 1947 poor with sign-off under KOMA; is still ContChr (RD-IA)

1550 WJDM NJ ELIZABETH - 10/28 2000 fair with brief WDJX Elizabeth live ID for Mt Laurel nx (LMc-NY)

1540 KREL IA WATERLOO - 10/26 2358 good with REL pgt (BP-NC)

1550 WNZT FL NEW SMYRNA BEACH - 10/19 2000-2014 fair with IDS. OLD, many nx ada incl Club 44 on Rte 44 in New Smyrna; new for mx # any locations; auroral ex eliminated; anyone nightime pur on this one? (HS-ON)

Facts About NRC's DX Audio Service

The DX Audio Service, now in its third year of operation, provides the ONLY monthly broadcast news service to the DX community.

The DX Audio Service, available to anyone anywhere, Is designed to inform the radio listener in their free time to give the listener the finest service available.

One-year subscription, subscriber keeps the cassette each month: $25

DXAS was started to provide broadcast information, both AM and FM to the blind DX listeners.

It has evolved into a service for all types of listeners with material useful to all types of listeners. Many of our subscribers listen to the tape to and from their place of work while driving down the road.

Cassettes are mailed by First Class mail, on or about the 20th of the month. Information, subscriptions, renewals, sample copies: write to NRC DX Audio Service - P. O. Box 24 - Cambridge, Wl. 53523-0024. For back issues: NRC DX Audio Service - 706 MacKenzie Avenue - Lima, OH 45805-1835.
It appears that the DX in Colorado is still going strong this week!

**SPECIAL**

1310 KFWO CO GREENLY - 10/30 0915 back on the air after being silent since April. First noted 10/30 with 1-second time beeps for a couple of hours, a la WWV, then into reg. programming around noon. Good signal, at least in my area. (WW-O)

1370 KTRN CO DIZZY TRAIL - Silent for several days now, first noted so on 10/31. freq. is now dominated in daytime by KKNH, with a not-very-strong signal. (K-CN)

MIDNIGHT TO MIDNIGHT

1010 KZRC OR MILWAUKIE - Per announcements, will be going stereo "soon," not likely with D-QAM. (FS-OR)

1450 KSNW NW LOS ALAMOS - 11/1 2005 good, clear signal with ABC News. Ad for Don Taylor's Photo, then into Talknet. NM #31. (JT-CN)

MIDNIGHT TO MIDNIGHT

710 KEKL LA SHREVEPORT - 10/31 0715 ads for Motel Six & Whataburger, then local news. (G-CN)

980 KCGS SD DEADWOOD - 10/30 0708 woman with sports, weather, spot for local hardware store. Fair at best in KMBZ null. New. (K-CN)

1300 KZKO AZ NAZON CITY - 10/25 0651 out of nowhere, prob. EM antenna change. Local/Regional news with anchor. Curt Bower? local spots. Good on peaks but Q55/QNH. NM #13. (IH-CN)

1310 KDOT CA BAKERSFIELD - 10/26 0910 briefly thru QRM with Las Vegas/QF promo, then slogan "KDOT, 24 hours a day." Qalokly submerged inumble. New. (CA-CN)

1330 KPKF KS WICHITA - 10/26 0905 ID as KFH, then other IDs. Weak, QRM-QN good. Better than local. (K-CN)

1350 GYMN KS ROSETOWN - 10/25 0905 Broadcast News, sports, then local spot and weather at 0907 ("Hi,1000000 people two"). Program "Make Up, Seokatehoven" followed. Fair in KPH null. (G-CN)

1370 KOKX TX ROLLINWOOD - 10/27 0832 fair for J min., then lost to KHGM. Local news, spots, enough for a report. New, but now, don't have it QM'd yet. (G-CN)

1390 KAMO AR ROGERS - 10/27 0715 presumably the one with spot for Western Bar & Grill in Rogers. Bleezy over QRM, then lost. (G-CN)

1510 KOOX MO INDEPENDENCE - 10/20 0931 all reg., programming with "Insights For Living" followed. "Focus on the Family" slots. (MO-CN)

1500 KKOX OK BLACKWELL - 10/27 0659 n/a on at 0659. (J-CN)

1500 KQOS KS GREEKTOWN - 10/31 0659 n/a on at 0659. (J-CN)

REPORTERS

EE-OR/Eric Bueneman, vacationing in Gresham, OR
ST-CN/Chuck Turner, Parker, CO/Dan Jones with JT-10 loop
CQ-CN/John Willkins, Wheat Ridge, CO/K-R508, K-J09A, 23' loop

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N. Kingstown radio station to be sold

Channel 10 anchor Wood, husband to divest WKFD 10 months after buying it

**INTERNATIONAL DX DIGEST**

Nancy Hardy

3104 Pacific Avenue, Aberdeen, WA 98520

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**DOMESTIC DX DIGEST**

Chuck Hutton

1237 Lanier Blvd., Atlanta, GA 30306

**TIMES are GMT (UTC), for ELT subtract 4 hours. (404) 573-2785 Before 2300 ELT**

1359 ALGERIA Oran-Len Treignes 10/31 0300 male AA chant. fair. (Connelly)

1355 ST TRINIDADE 0050 10/19 on a normal evening. (Dangerfield)

1395 DOMINICA 'OBC' as they 10d'ed on 10/13 at 0915 with religious songs, very strong. In English. Perhaps they have already increased power to 20 kw as they very strong on the air. (Rio-Ch)

1363 ELEUTHERA Oswitte et al clear station at 0130 11/1, Radio Two program. (Dangerfield)

1474 CANARY ISLANDS all alone with good signal 0200 11/1. (Dangerfield)

1475 HOLLAND and unid 10/31 0312 strong open carrier o/music stn. (Connelly)

1468 SWITZERLAND Bottons good signal with cl cx. 0300 past 1030 11/1. But only after Radio Banedgen re-opened. (Economical)

1468 PARANA Le Exitos, Provincias Centrales, Chitre, in program "La Ruta feliz hacia el sol" (Happy way to the sun - meaning the dawn). I'ded at 0555 on 10/28/10 with an echo of pop mx. PB in at 0545 at the time. (ObjI)

1464 ITALY Rome sharp signal 0100 past 0200 on 11/1 and 11/2. Mostly Italian pop mx with news in EE at the half hour. (Dangerfield)

1482 YUGOSLAVIA Titergrad with marches at 1000 on 10/6. (ObjJ)

1466 ENGLAND Wales Service very strong 0100 to 0200 on 11/1 with semi-cl mx. (ObjI)

1491 ALGERIA Algiers 10/31 0316 AA chant. good. (Connelly)

1465 NEVIS good on 10/13 and 10/14 from 0100 with mostly calypso type mx. (ObjJ)

1490 BELGIUM gave call as VBS, Aurora cx. (Dangerfield)

1490 ENGLAND BBC synchrons 10/31 0318 fair w/EE talk by ham. (Connelly)

1505 ENGLAND in clearly at 0100 to 0200 on 11/1. Radio Two music // 693 and 882. (Dangerfield)

1493 MORRCCO 10/31 0321 bits of mx. possibly AA or Moorish SS. (Connelly)

1453 ELEUTHERA Brouwix et al fair sig at 0135. 11/1 with pop mx. (Dangerfield)

1480 HAITI 4VB stop at 0035 10/20. (Dangerfield)

1480 ENGLAND Brookman's ParkJ separable from 0900 to 1030 11/1. BBC Radio One pop mx. (ObjJ)

1421 YUGOSLAVIA Tovarinski in at 0900 10/6. strong // 1134. (Dangerfield)

1491 ENGLAND BBC's "Focus on the Family" program at 0030, followed by "Lowering the House" and "Just Us" at 0030. (ObjJ)

1514 YUGOSLAVIA Zagreb up louder than 1334 at 2300 10/31. Was // 1134 as reg. news above. But for 1345. (Dangerfield)

1421 LIBYA Tripoli 10/31 0326 bits of AA style violence, poor in slp. (ObjJ)

1421 NORWAY Ktosoy 10/31 0259 xlt (local like) w/classical mx. Best on 10/26 at 0700. (Connelly) Not in as much this season but was very strong at 0700. (Dangerfield)

1421 COLONIA Supers 0010, Bogota, very good at 0045 at the time. (ObjJ)


1421 HAITI R. Citadelle, Cap Haitien heard on a trip to Santiago on 10/15 at noon. (Connelly)

1421 FRANCE Lillo 10/31 0302 fair w/ma in FF. (Connelly)

1421 ALBANIA Tirana like the evening star. Its generally there up to 0000 w/o. (Dangerfield)

1421 HAITI La Voix du Nord Ouest, Port de Paix, good, a move from 1380 since my last trip to Monte Cristi. (ObjJ)

1421 RUMANIA Nuevo Continente, Bogota ending a family radio religious program and IDing as "Nuevo Continente, la alternativa diferente" at exactly 0000 on 11/10 over Radio Multicolor (or R. Jalisco) with Mexican rancheras. (ObjI)

1421 HAITI La voix du Nord, Cap Haitien very strong on TRF. (ObjJ)

1421 VENEZUELA R. Favoritas del Sur, Maracibao with program "Mujica de Ayer" (Yesteryear). Pop mx. h/w at 0130 on 10/16. Very good. (ObjJ)

1421 CAMAYAN ISLANDS R. Camayan very poor w/WP/WDQCAR spatter w/some kind of wave music. (ObjI)

1421 DOMINIC REPUBLIC in clearly with hymns and religious programmers 10/18 and 10/19 after 0000. (Dangerfield) (R. Amannier - Chuck)

1421 kleine ISLANDS (I have) not taken detailed logs on several occasions (recently 0930 to 1000 10/14) with intent to send a report for country # 126. Haven't sent it yet. (Dangerfield)
A tiny island station spreads Gospel

By Joseph B. Teenar
New York Time

KRALENBURG, Banjara — It is 5:15 a.m. and Christine Cline is on the air with a chirpy "Good morning" and a shallow laugh. Yet the signal from WRB, the most powerful radio station in the Western world, is heard miles away on the island of Niaf, a tiny coral atoll off the coast of the African nation of Senegal.

"Who's on the air for the first time with a Gospel message, a program entitled 'La Vida de la Estrella' and 'La Hora de la Noticia,'" she announces.

The station's signal covers a radius of 1,200 miles, reaching into the interior of Senegal and as far as 100 miles into the Atlantic Ocean. This morning's program includes news, music, and sermons, broadcast in both Spanish and English.

The station was founded in 1946 by a group of American missionaries, who saw the need for a radio outlet in this isolated region. Since then, the station has grown in size and power, reaching a wider audience with each passing year.

According to Cline, the station's main objective is to spread the Gospel message to those who may not have access to traditional religious services. "We believe," she says, "that through radio, we can reach those who are far away from us."
They Want Their 'PEN'

These fans are tuned into crooning. They're big on big bands, and they've given new life to a station that plays only old music.

The Philadelphia Inquirer - via Tony Fitzherbert

Radio today, the Philadelphia Inquirer, October 23, 1988

Plans for radio jammed

By HAL MARCOZZI of The Morning Call

When Joseph and Nancy Bailey moved from Dauphin County 13 years ago to pursue their careers in broadcasting, they looked forward to the day they could return as owners of a radio station.

That opportunity came last year, when the Bailey's won a Federal Communications Commission license for a station in their own backyard. They started the station in Lebanon, N.C., after years of preparation and hard work.

The station began operating to the joy of many local residents.

But recently, the station has been hit by a series of problems, including financial difficulties.

Joseph Bailey said he is working on a plan to improve the station's finances, but he needs help from the community to succeed.

"We're having some difficulties, but we're working hard to overcome them," he said. "We're hoping to get some financial assistance from the community to help us get through this difficult period.

via Kermit Geary
Reminiscing about radio

By Ron Weiskind

Radio Days in Pittsburgh: Radio Days in Reading and in St. Louis. The article discusses various radio personalities and events from the past, including a mention of the Kaye Brothers and their popularity in the 1950s.

The broadcast schedule is also mentioned, with stations like WCCO, WGN, and WLS listed. The article ends with a reference to the importance of radio in the past.
Audio processing for AM improvement.

Introducing the new Model 9100B

It complies fully with the NRSC standard while retaining the features that have made OPTIMOD-AM Model 9000 the choice of so many stations. The choice of the moment, the new Model 9100B improves station performance: it offers better quality on both voice and music. And, the new standard allows us to make new OPTIMOD-AM even better!

Like its predecessor, the new 9100B is fully equipped to operate optimally in mono, 2-channel stereo, or 4-channel stereo. Mono models can be field-upgraded to stereo by simply plugging in additional cards.

For owners of OPTIMOD-AM Model 9000 and the older 9000A:

We understand our community, your need for the new standard with both low- and high-field upgrade kits to add the NRSC standard pre-emphasis and filtering. They are available through your authorized Orban Broadcast Products Dealer.

Orban Associates Inc.

(415) 389-1212

Orban Broadcast Engineering - February 1969

FM Station Address Book

ONLY $8.95 (Canada, U.S.A $9.45) to the Pub Center (Foreign orders, please write for price)

- Listed by state, city
- 6.5x11 inches, 5-hole punched
- Full-size type

WANTED: A few good voices! If you presently work in radio, or have worked in radio, and you have some spare time once per month, the NRC's DX Audio Service could use your help. DXAS needs several people to voice short articles and stories on tape for the blind. Any help would be appreciated, and you will be sent a copy of the current DXAS for your trouble. Anyone interested should contact Fred Vobe - NRC's DX Audio Service - 706 MacKenzie Avenue - Lima, OH 45805-1838.
A somewhat rambling Review of fine tuning's *Proceedings 1988* by Tom Farmerie

This recent publication certainly ranks near the top of the annual heap of technical interest to the JVC enthusiast. It is produced by the organization fine tuning which is composed of the ever dwindling number of serious short wave broadcast DXers. The book is 8.5 x 11 format in a comb type binding and contains about 150 nonsequentially-numbered pages. Printing quality is excellent and the book is well illustrated.

The book is divided into five topical sections of articles, plus four feature articles. Topical sections are: Postulation, Antennas, Receivers, Peripheral Equipment, and Computers. It is assumed that any possible future edition will follow this format.

What then, is the interest of this book to National Radio Club members? Well, for years we BC DXers and those "SWLs" have existed in an unintended de facto sort of hobby apart. Years ago, radio hobbyists were usually all-wave, i.e. their bulletin carriers sections devoted to each type of DXing. Then our own NRC was once multi-band, with SW/SC coverage from 1945-1958, and amateur SW coverage from 1937-1940. At other times NRC has covered FX, TV, Utility, and Longwave DXing in discrete columns. However, NRC did drop SC coverage in 1969 due to lack of support, during the SW/Radio era. Bay Edge, God rest his soul, made NRC into the finest radio club of all devoted exclusively to BC DX. I believe this elimination of all non-BC DX from one of the key elements in making NRC the serious DX club of all. Partially as a result of this, in the ensuing years most BCers acquired any DXing outside 355-1605 kHz. We were truly "chue nous", united by our shared (though not very intense) pursuit of BC DX. We tended to look down at SCing as "too easy" or an "kid stuff", and truly believed that only BC DXing presented any lasting challenge. The fact that many of us started with SCing and eventually "graduate" to BC DXing reinforced that attitude. I myself, starting at age eleven, was already into shortwave DXing. 60 meter DXing came from two Space satellite, the first and probably only time any DXing was done over Copper Island and a few hard to hear SWL DXers all attest to my fond memories of SW DXing. But, by age 16 I was completely addicted to BC DXing, and eventually became one of the NRC's BC-DF DXers. Offering only KEAL-DF bellwether DXing, didn't have the accompaniment of BC DXers out of NRC for eight years. During this time I still DXed, but only on a casual basis. Then after two years I appeared in *Proceedings*.

My eight years of DXing in the NRC revolved around nothing but DXing, and my perspective into how the SWB and BC DX communities had grown even more distant from each other.

BC DX was historically getting more challenging, which is another way of saying that gallicism crowding of channels and man made QRM was even worse. A new generation had met this challenge by attempting to understand DXing and making use of that knowledge to a advantage. The impedimenta of DXing, or reviving and refining the logged DX antennas and the long forgotten loop antenna, the ancient art of phasing longwires, plus hot-rod the best DXer to perform even better. Also, our DX NRC was continually featuring articles on DXing strategies, esoteric auxiliary equipment, etc. etc. The publication of NRC Receiver and Antenna manuals, NRC Night Pattern Book, INCA Technical Guide, etc. all gave the BC DXer a potential arsenal of how-to-do-it knowledge to meet the hard reality of the increasing difficulties facing the BC DXer. The gunsho addit of international split channel BC DX might now use a high precision finding well engineered ferrite or air core loop antenna, phased beverages/wireless, sub-audible heterodyne display, exalted-carrier SSB reception via the use of mechanical filters and modified q-multiplier, lab-quality Knohl-Mite audio filters, electronic digital frequency readouts accurate to 0.1 kHz, and computer generated isospheric maps - all百姓 analyses. I think it will be a long time before DXing via ship's DXing system can be DXed at all over 135 countries so far on BC. It is a prime example of what a BC DXer can accomplish with technical innovation and a systematic approach. Indeed, a DXer's approach, indeed a DXer's approach...
combat this on my own H-150 with a high Q vintage NEV preselector. Along with the increasing digital讨厌, the H-150 is no longer as efficient as it once was. Two articles focus on the Hammarlund HQ-180A and give it good marks, no surprise to NRCers. My own H-180A has the same mods (and more) as the one reviewed. Digital readouts, Q-Multis, etc., are becoming popular.

I fully agree with the review of the R-390A, also highly favorable, and also of no surprise to NRCers. I am fortunate to own one of the last dozen or so receivers manufactured basically hand-assembled. It is good to see the SWBC DXers realizing just as we do that these particular type receivers are hard to beat for DX signals, and can be had at a fraction of the cost of the best solid state. The R-390A for tough TA splits is a standout. The H-150 for ease of use and pristine audio, the H-180A for tropical band SWBC DX and easier SSB splits, the H-180A for SSB DX. Caveat: be prepared to eventually replace the capacitors, and repair these sets: At least one avaricious buffer is ready cut out there should you decide to have someone repair it for you (many of us speak experience here). Before getting one fixed or you might get shafted!

Two other articles focus on the Drake R-5 and R-51S; both are excellent solid state receivers, and both are currently discontinued in manufacture. In summary, the article on the Drake is most helpful.

The Peripheral equipment section focuses on antennas, tuners, Ameco r.f. pre-amps, cassette recorders, audio filtering, and the Heath HC-12 spectrum analyzer. The reviews on antennas and tuners are thorough. The Heath spectrum analyzer is a wondrous contraption and is for advanced DXers and for those who want to know what is happening on the HF bands.

I found the audio filtering articles notably well done. The SWBC DXers use them more than we do. I myself feel they are required for DXing splits and can be of use in DXing 40 meter DX (as well as when DXing on 20 or 15 meter DF). The DXers have been using these filters for some time and are well aware of the benefits of using them. I have used the DX filter in my own work and found it to be very helpful.

Three remaining feature articles are: DXing with an SSB receiver (no relevance to more modern receivers but highly recommended reading, even if you don't use SSB) and two articles on how to transmit. One article discusses how to improve your transmitting performance, and the other discusses how to improve your listening performance. These articles are written by experienced DXers and are highly recommended reading.

The Computers section has an excellent article by Fred S. Bowers on using a computer to write reception reports. 100% interest in these is evident.

In summary, this issue of The DX Magazine is a valuable resource for DXers and those interested in the DX hobby. It is highly recommended reading for all DXers.

---

Peter Kemp - KG1Z - P.O. Box 73 - Bethel, CT 06801

Greetings all...Group W, and Opryland USA are getting together to produce a national 1500 watt Red 24/7/365 Country music station on 93.7 FM. It will be known as TNMR. They anticipate going on the air in December...Westwood One is dropping Dr. Ruth's "Sexually Speaking" show. The program is currently syndicated on less than 10 stations, down from a high of 100. Dr. Ruth is dropping the show due to low ratings...Lynn Seem...seems like an AMer is borrowing an idea from their TV cousins, WBBM is inviting listeners to become "Weather Watchers" by placing mini weather stations in their homes.

As Radio...The latest RASD survey shows Paul Harvey again in not only the top spot, but the top FIVE stations. The ABB Network for many years. The National Association of Broadcasters and the FCC are going to find themselves in quite a battle over the future of AM broadcasting. They are going to find themselves in quite a battle over the future of AM broadcasting.
FCC revokes licenses of Georgia AM-FM

Review Board says Silver Star abused commission's disease sale policy with AM-FM

To the FCC's Review Board, the $30,000 fine levied by the alternative law judge for the Georgia AM-FM licensee's violation of the commission's sale policy was not sufficient. Silver Star Communications Albino, the licensee, had been cited for violating the commission's disease sale policy, which requires that any sale of a broadcast station must be approved by the commission. The Review Board ordered the licensee to pay the fine and to restore the station to its original condition.

Broadcasting

- via Jerry Smith

Both the FCC and the Review Board found that Silver Star Communications had violated the commission's disease sale policy by selling the station to a third party without the commission's approval. The Review Board ordered the licensee to pay a fine of $30,000 and to restore the station to its original condition.

Wisconsin State Journal - via Mike Knitter

EPA too busy to study radio waves

WASHINGTON, D.C. - The Environmental Protection Agency, citing a backlog of other priorities, has suspended work on proposed standards for exposure to radio waves, which some scientists suspect could cause neurological damage in high doses.

Garwood, head of EPA's radiation program, said in an interview that the agency is too busy to focus on the issue of radio waves, which are known to cause neurological damage in high doses. However, the agency is continuing to monitor the issue and will resume work on proposed standards once the backlog is cleared.

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