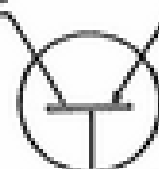


VOLUME 15
DECEMBER 1989
NUMBER 178

CENTRAL OKLAHOMA RADIO AMATEURS
COLLECTOR AND EMITTER



50¢

SECOND CLASS MAIL
Postmaster, see page 3



GREAT PLAINS A.R.C.

W5HGH Repeater 146.13/73

KAY KOUNTY

AMATEUR RADIO KLUB

CIMARRON

NOVEMBER MEETING

Howdy from NW Oklahoma. Thanks to N5JGQ-Lois and N5OKE-Leon for helping to launch me on this new job of reporter. They will be a tough act to follow.

Had a rather unusual club meeting last time. We meet at the Public Works Building in Woodward. The gate was locked, and when no one showed up with a key, we decided to retire to Crystal Beach Park and share a German Chocolate cake provided by V5LEP-Lerene (thanks).

Nine or more members of GPARC attended the Enid Swap-meet, and we got caught up on some eyeball QSO's. They have an excellent facility for the event. Will be looking forward to next years meet. Enid's roving goodwill ambassador, KD5SD-Jim is a regular on the WA5PLW repeater; he gives us a call just about every time he comes through.

W5KFK-Lewis appears to be recovering nicely from bypass surgery, and is back on 2 and 160. W5HGH-Lee's XYL is home and recovering from a recent illness--good luck Dawn.

We will have our annual Christmas supper at Northwest Electric Co-Op headquarters in Woodward, December 2, 1989. We expect a good turn out for N5EOX-Frieda's home baked turkey and attendant goodies prepared by other members.

Tentative plans are being made for the GPARC annual Hamfest in April. This event has been so well received by the ham fraternity (based on attendance counts) that no major changes have been made for 1990--Don't fix it if it ain't broke!!

Our 2 meter net meets Mon., Wed. & Fri. Nights at 9pm on 146.73/13. Check in with us if you get a chance.

More next month.
N5OO Willis

We had a good turnout for the meeting this month at the Vo-Tech. They finally put us in the Electronics lab! This was alot of fun for those of us who like to tweek knobs. We spent part of the time deciding on what meal to eat at the Christmas dinner. We finally decided on Rib-eye steak with baked potato, vegetable du jour, and salad. It will be on Dec. 12th at 6:30 p.m. in the Conference Center of the Marland Mansion. This is the same place we've had it the last several years, and it has been very nice each time. The program will be a travel-log that should be enjoyed by all. Plan to come and bring your spouse or a friend.

Mark reminded us that dues are due the first of the year, the codes will be changed early in March, so get your money to Mark. Dues will be \$20 a year again with full autopatch or \$15 without. If there is more that one member of the house that wants to join, all others family members can join for only \$5 each.

Speaking of joining, you can now join or re-new your membership with the ARRL through the club and save \$2. See Mark N5OGP for details.

Our new club jackets were passed out, they look very nice. A big thanks goes to John W5Y5X and Lou N5GIW for their help in this project. These should be very helpful during our public service events this next year. Be sure to wear yours and your club hat so we can be recognized easier. See Mark N5OGP if you haven't gotten yours yet.

The program was an ARRL video about the 'SAREX' Shuttle Amateur Radio Experiment that featured WOORE, Tony England. He flew in the shuttle a few years back and took along slow scan TV that he transmitted back to the ground.

PUBLIC SERVICE EVENTS

All the runs and other events are over for the winter. The next one should be the Groundhog day run in February.

I'll keep it short again this month.
73 KD5FX, Dave.

The November 9th. meeting of CARA was well attended. Ye Ed, being absent due to illness, faithful Betty, KA5RTW, took the notes from which this column will be written. Thank You Betty!

Those present included Robert Baker N5MPH, Leo Peil WZ5H, Terry McColl N5MLT, Ray Barnes AB5Z, David Rumsey N5M2P, Vern Brewer KA5S2D, Nadine Painton N5FMH, Denny Painton WK5V, Betty Day KA5RTW, Ruth Simpson WX5Y, and Jack Kelly N5LBN, our President, who chaired the meeting!

CARA meetings start at 07:30, whether DST or not. The first item on the agenda was a report on the raffling of the \$150.00 worth of groceries. Sales are going well, and the prize will be given to the possessor of the lucky \$1.00 ticket, when it is drawn at the Christmas Dinner, December 8th.

It was decided that that dinner will be held at Countrymans Country Diner, Isabella, Ok....the time... you guessed it...07:00!

New officers were elected for the calendar year Nineteen Ninety! We look forward to that being a Vintage Year, with Leo Peil leading the way as President. Vern Brewer was elected VP, Denny Painton was elected Secretary, Nadine Painton is our elected Treasurer and yours truly will continue as Editor (the good Lord Willing)! Thats what comes of being absent election night.

The new officers will take over the first of the year. Kudos to Jack Kelly and Ray Barnes for their good work in '89! And, of course, to the officers that succeeded themselves.

Ray Barnes was elected Net Mgr. for the new year. Remember you are invited....eight Local...14545, Thursday nights except meeting night which is the second Thursday of each month!

Robert and Tommy Adams are joint activities chairmen. Robert Baker, N5MPH, that is! Tommys call is N5NOP!

Next CARA VE exams are tentatively planned for Jan. 6, 1990. Final plans will be made at our Christmas dinner. Be there or be square!

73 NN5Z

CORA

AERONAUTICAL CENTER AMATEUR RADIO CLUB, INC.



W5PAA



REPEATER
FREQUENCY

147.135/735

MINUTES - 28 OCT 89

The meeting was called to order at 7:17 pm with President Frank, AA5GI, in the chair with the following Directors and guests present:

ACARC-Tom Mangham, K5LDI
SCARS-Dorinda Skaggs, N5IUA
76ers-Jerry Sproul, N5AUH
Jim Buswell, N5BEQ
OCAPA-Jim Bartlett, KA5PSF
Lee Allen, N5KXI
EARS-Bob Long, N5KUE
Joe Lynch, N6CL

Linda Richardson, N5OJP
Guest: Robin (Son of Bob)

Because of few attendants self introductions were deemed unneeded.

The Minutes of the September meeting were accepted as distributed.

The Report of the Treasurer was accepted as distributed.

In the absence of the Editor there was no C&E Report.

In the way of a VE Report it was relayed by Joe N6CL, that "some passed, some failed".

HH XVII (17) (1990) Reports: PUBLICITY: Bob, N5KUE, needs the facts by 1 Jan 90.

FACILITIES: Frank, AA5GI, led the discussion of conflict with dates proposed for conventions which led to a consensus to retain Friday thru Sunday, 3-5 August 1990.

DEALERS: Frank, AA5GI, circulated a copy of letters already mailed.

PRE-REGISTRATION: Jerry, N5AUH, led discussion for ticket changes as needed and fee was set at \$8.00 per licensed amateur.

REGISTRATION: consensus is for \$10.00 per licensed amateur at the door.

TALK-IN: Bob, KAOCVK, no report.

PROGRAMS: (Frank AA5GI et al) Dealers hours will be 8-5 Saturday and 8-1 Sunday with set-up entry to the Flea Market available 7-8 am Saturday for Sales 8-5 Saturday and 8-1 Sunday.

FLEA MARKET: (Don KB5ABS) consensus is to charge \$7.00/Table which covers costs.

NON-TECHNICAL PROGRAMS: (Dorinda, N5IUA, et al) will try for events Friday evening.

BANQUET: (The Board) further discussion of an on-premises

The November meeting of the ACARC was held on the 2nd at the clubroom. There were 20 members present and Tom K5LDI, gave the CORA report. He reported that ACARC will again be responsible for bingo at next years Ham Holiday. HH will again be at the Lincoln Plaza but will be held on the August 3, 4, and 5, 1990.

He also stated that letters have been mailed out to try for more dealers next year. Merging the C & E with NEON was also discussed again.

It was brought up that the new Telrex tribander is up but has a very high SWR. Several possible remedies were discussed. Many of the members attended the Hamarama at Lake Texoma. Sounds like most had an enjoyable time.

The December meeting will be our traditional Christmas Dinner meeting. It will be held at Dodson's Cafeteria located at 4101 S. Western. The time is 6:30 P.M.

The date is December 14, 1989. Last year space was reserved for about 40 people with some room to handle a few extra. However, about 80 showed up. So the moral here is come early and expect to have a good time and visit with your best friends (not to mention an excellent meal).

Bill, K5KDR

Dinner was tabled to a future meeting.

BINGO: (Tom K5LDI) No change
SECURITY: (Phil N5HIP) no changes.

SCHOLARSHIP: The Board deferred discussion to next meeting.

BREAKFAST: discussion yielded the decision to promote an informal, pay-as-u-go, your-own-choice breakfast in the facility/ies on site.

Next Board Meeting scheduled is 28 November 89, usual time/place.

This Meeting was adjourned at 9:00 pm sharp.

Secretary,
Jim, N5BEQ

SEASONS GREETINGS FROM EARS

It seems our refreshment fund has become a little chubby, so \$100.00 has been donated to the scholarship fund. This will be a good contribution for a worthy cause.

Civil Defense Director, Charles Brice, recognized Bob Long, N5KUE, for 10 years of civil defense service and also recognized the EARS Club for their storm watch activities. Great going folks, never hurts to be recognized for your efforts.

Tuesday, November 14th, the EARS Board of Directors voted to purchase another transceiver for the repeater site on the recommendation of Lee Vaughn, KA5WIS. Lee is EARS repeater Trustee. We have enough space at the repeater site for two transceivers. The next one will be for back up in case of number one failure.

Jason McGee, KB5EYE, a red cross volunteer reported for the Explorer Post that the Red Cross is desperately in need of money after the Hugo and Galveston hurricanes.

FOOD, FOOD, Delicious FOOD-Don't forget, the EARS Christmas Dinner which will be held at St. John's the Baptist Catholic Church at 7:00 p.m. on Saturday, December 16th! (Adults-\$6.00 and Children under 10-\$3.00) The food was thoroughly enjoyed last year by everyone attending. You will receive by mail soon a reminder for this dinner. SANTA CLAUS plans to be there, so bring the small children.

Also we want to remind everyone about the Christmas Food Basket. All donations can be taken to any club function. Cash donations will be used to purchase the turkey and other perishable items.

Continued on page 4

1 AERONAUTICAL CENTER ARC
 MEETS: FIRST THURSDAY, FLIGHT STANDARDS
 BUILDING, FAA, SOUTH MACARTHUR 7:30 PM
 PR TED ANDERSON, NYSW 485-4016
 SE DOUG TEACHMAN, WODIA 392-5458
 AsPR HAROLD TODD, WASVAQ 685-3685
 AsVP CHARLIE GREENE, WASJGU 943-5631
 EDITOR: BILL OLIVER & LUKE ELLIS 329-6333

2 CENTRAL OKLAHOMA VHF
 MEETS: 11:00AM THIRD SATURDAY, THE BRICKS
 RESTAURANT, 3100 N PORTLAND, OKC
 PR JACK MUSE, WBSKZ 691-1752
 VP FRED BOARDMAN, WSNL 427-2505
 SE JOE BUSHNELL, KSJB 732-0676
 TR ELLARD FOSTER, WSKE 789-6702
 EDITOR: JOE BUSHNELL, KSJB 732-0676

3 MID-OKLAHOMA REPEATER, INC.
 MEETS: FIRST TUESDAY, 8 PM, COUNTRY HOMESTEAD
 RESTAURANT, 3100 N PORTLAND, OKC
 PR BOB MOORE, KASETA 799-1765
 VP JERRY METHORE, KOSIS 524-5080
 S/T LINDA MOORE, KASNAV 799-1765
 EDITOR:

4 OK CITY AUTOPATCH
 MEETS: 7:30PM, THIRD TUESDAY
 SALVATION ARMY, NW 50 & PENN
 PR ROBERT SHAW, WASBQX 341-4763
 VP DENNIS PATTERSON, WDCSM 495-0769
 SE LEONARD HANSTEIN, WSMEL 789-7201
 TR LARRY DAVIS, KFSJN 722-4564
 EDITOR: CHUCK WILHITE, KSNK 721-4926

5 OKLA UNIVERSITY ARC
 MEETS: 7:30PM SECOND TUESDAY (SEP-MAY)
 119 WILSON CENTER, 1334 S JENKINS
 PR FRANK DONALDSON, NSIQJ 329-4172
 VP JOHN MUSTENBERG, KESN 325-2382
 S/T JIM GREENSHIELDS, WDSHPU 321-9981

6 ALTUS ASSOCIATION
 MEETS: 7:30PM, SECOND THURSDAY, NORTH
 MAIN FIRE STATION (CD) ALTUS
 PR FRANK FERITTA, AASIT 482-1398
 VP NONE
 S/T MIKE SCHENKEL, WSVXU 482-1797
 EDITOR: MIKE SCHENKEL, WSVXU 482-1797

7 BICENTENNIAL (76er) ARC
 MEETS: 7:30 PM SECOND TUESDAY, DENNY'S
 RESTAURANT, 315 S MERIDIAN
 PR BILL SKIPPER, KBSBS 392-4612
 VP
 S/T JERRY SPROUL, NSAUH 354-2061
 EDITOR: CHRIS EVERETT, KPSGGY 364-6794

9 WHEATSTRAW ARC
 MEETS: 2:30PM SECOND SUNDAY, LOCATION VARIES.
 SEE CLUB SECTION FOR DETAILS.
 PR PERRY JONES, WSMGZ (Wiford) 772-6063
 VP GEORGE MASCHINO, KSEGL (OKARCHE) 263-7614
 S/T JOE GAPLAND, WASFLT (CALUMET) 893-2660
 EDITOR: RALPH WILDER, WASPFK (WATONGA) 623-5421

19 OKLA INDEPENDENT ARC
 MEETS: 7:00PM SECOND TUESDAY
 SOUTHWESTERN BELL OFFICES, PONCA CITY
 PR VERNON TREIBER, Jr. NSANV 767-6260
 VP TRUMAN STINER, WBSNRE
 SE GLENN COKER, NSNFC
 TR JIM DEL TORTO, KSFL 762-1221
 EDITOR: MIKE MORRIS, NSJJR 765-6260

11 EDMOND AR SOCIETY
 MEETS: 000 MONTHS, 3RD SUNDAY, 2:00PM EDMOND
 EOC. DINNER, EVEN MONTHS, 3RD FRIDAY
 PR TONNIE GUINN, KASWAL 341-3886
 VP JOEL BEASLEY, KBSFCF 348-1614
 SE DON SEIBLE, NSLIE 340-4339
 TR CLARA GRANGER, KGSUG 341-2968
 EDITOR:

18 GREAT PLAINS ARC
 MEETS: 2:15 PM FIRST SUNDAY
 WOODWARD PUBLIC WORKS BLDG.
 PR WINDLE HATCHETT, WASPLW (FT SUPPLY) 766-3561
 VP BOB BAYLESS, WBOGA 254-3561
 SE ROD FORD, WBSOVT (GAGE) 923-7683
 TR FREIDA PATTERSON, NSEQX (WOND) 256-2111
 EDITOR: WILLIS RIDINGS, NSOO 689-2291

13 KAY COUNTY ARC
 MEETS: 7:00 PM, THIRD THURSDAY, SEP-MAY,
 PIONEER VO-TECH, PONCA CITY OK
 PR MIKE MORGAN, NSLPZ 765-9539
 VP MARSH PRONKE, WASUBO 363-2526
 S/T MARK BYARD, NSOGP 762-1966
 EDITOR: DAVE LAND, KOSFX 762-8616

14 CIMMARON ARS
 MEETS: 7:39 PM SECOND TUESDAY
 WISY PLAYHOUSE, 827 S 13, FAIRVIEW
 PR LEO PEIL, WISH (CANTON) 886-2998
 VP RAY BARNES, ABSZ (405) 274-3334
 SE DENNIS PAINTON, WKSU (405) 764-3599
 TR MADINE PAINTON, NSFMH (405) 764-3599
 EDITOR: JACK DAY, NMSZ (405) 227-3462

15 SOUTH CANADIAN ARS
 MEETS: 9:30AM SECOND SATURDAY, RED CROSS BLDG
 NORTH OU CAMPUS, NORMAN
 PR ANDI WOLFE WUSM 329-0203
 VP DORINDA SKAGGS, NSIVA 799-5363
 SE KEN BROWN, NSKUK 329-7485
 TR MONTE BATEMAN, WBSRZX
 EDITOR: KEN BROWN, NSKUK NONE

16 EDMOND AR CLUB
 MEETS: 7:00PM SECOND MONDAY, SEE CLUB
 SECTION FOR LOCATION AND TYPE
 PR MARK NORTHCUTT, WDSOYI 755-4672
 VP WENDELL COCHRAN, WBSISO 943-4308
 S/T KAY NORTHCUTT, WDSOYJ 755-4672
 TRUSTEE: DENNIS ORCUT, WBSISN 340-0034

CENTRAL OKLA RADIO AMATEURS
 MEETS: 7:00PM FOURTH TUESDAY, RED CROSS
 BLDG. 10 & HUDSON OKLA CITY (BACK DOOR)
 PR FRANK TASSONE, AASG 341-4945
 VP DORINDA SKAGGS, NSIUA 799-5363
 SE MARSHALL MADDOX, WUSP 360-3205
 TR TOM MAREHAM, KSLDI 677-5291

NOTICE NOTICE NOTICE

EDITORS: SEND YOUR COPY IN
 EARLY ENOUGH TO MAKE THE NEW
 C&E DEADLINE - WEDNESDAY AFTER
 THE THIRD FRIDAY - EACH MONTH.

NOTICE NOTICE NOTICE

1. EDITORS: Starting next
 month the "past-up" date for
 the CORA Collector & Emitter
 is being advanced TWO DAYS.
 In the future that date will
 always be on a WEDNESDAY
 instead of Friday. Check the
 calendar each month, it will
 show you when you have to
 have your copy in.

2. Your copy must be in by
 8:00 pm on WEDNESDAY.

3. Copy SHOULD be 3 inches
 wide, but if it can't be
 presented that way get it to
 me any way possible. I will
 reset it if necessary.

4. Use a BLACK ribbon. If
 it is too light I can darken
 it up.

Something new has been added
 to your label. There is now a
 date, which shows when you owe
 your dues to "A" club. If you
 belong to more than one club
 the date will show the renewal
 date for the latest club. You
 may owe the other club now.
 Three months after the date
 shown we will have to quit
 sending the C&E, postal regu-
 lations. If there appears to
 be a mistake - check with your
 club official. We can't do
 anything about it.

Below is a sample lable:

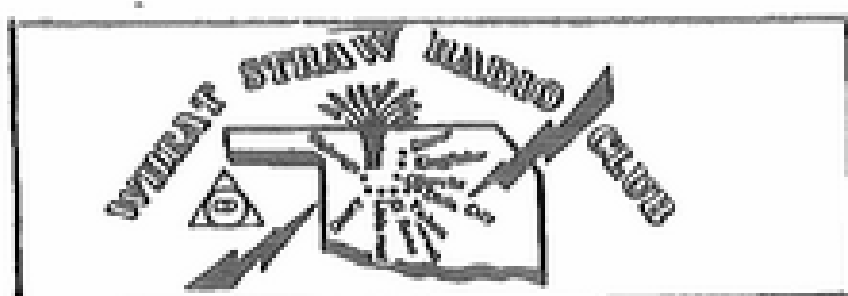
4	89/08	2
WILSON, MIKE WA5RTY		
1234 W 49		
MCCLLOUD OK		74851

The "4" means Autopatch Club
 89/08 means he is overdue
 The "2" is for postal rates

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 PAID SUBSCRIPTION: \$7.00 PER YEAR.

POSTMASTER: SEND FORM 3579 TO:
 CORA, 1020 ARTHUR DR, MIDWEST CITY OK 73110

EDITOR: JOE HARDING, WASINF 737-1044
 CIRCULATION: BOB GRAHAM, WBSNSV 677-8685



The November meeting was held at the bank in Okarche. N5KCO Neal chaired the meeting due to the president being absent, he had a sick friend. K5GBN Johnny acted as secretary.

The technical committee is to be commended. Since the club has had a repeater, I only remember one Net Night the repeater was down. That is a very good record.

Nominations for officers were made, to be elected at the December meeting. For President K5GGL George, K5GBN Johnny, and WO5B Edgar were nominated. For Vice-President W25H Leo, and N5JWK Leroy were nominated. For Secretary and Treasurer WA5PLT was nominated. For reporter WA5PFFK. Some of the nominations were declined.

The ladies have the dinner all worked out for the next meeting - December 10th. This is our Christmas Dinner, it will be held at the Catholic hall, north of the stop light, southwest corner of town. It is located about twelve blocks north, on the right side of highway, or east side. Those of you who did not get to attend the last meeting, bring a salad and desert of your choice. The girls are planning for over 80 people, lets don't disappoint them.

After several discussions the celebration of the 30th anniversary of the Wheat Straw Amateur Radio Club in February was cancelled.

We missed some of you, but we had a special guest, Beulah, KG5JB Betty's mother. After the meeting we were served lots of goodies by the host ladies.

LEROY AND JANETTE KUEHN

It is a pleasure for me to write about the Leroy Kuehn family. Leroy was born in Kingfisher OK November 12, 1950. He grew up going to school just about the same as any ordinary youngster. After graduating from high school he immediately joined the Navy. While Leroy was in the Navy his parents moved to Okarche. One day he passed by and saw Janette at a distance. Leroy felt like he had been shot at

and hit. Going on by at that time, because he was afraid she was taken.

Janette was born May 4, 1953 in Okarche. Growing up through school Jan participated in the high school music department. She was an all state basket ball player. After school Jan went to Paul's Beauty College.

When Leroy got the nerve to ask her out, the love bug bit, like a bolt of lightning from far above. There was no turning back. In three months they were married - June 28, 1972. They have no idea when the honeymoon will be over.

Kris was born January 8 1975, Karey July 13 1976. Kris is in the ninth grade, and Karey is in the eighth.

WO5B Ed and KG5JB Betty got the four of them interested in amateur radio. Karey is AA5IY, Kris AA5JQ, Jan N5JUT, and Leroy N5JWK. Ed and Betty are continually offering to work with any one interested in amateur radio. Working hard Karey received her Novice license at the age of 10. Kris received his Novice at 11. At age 12 Karey got the call of AA5IY as an Extra class amateur. At the age of 13 AA5JQ Kris was an Extra class. Karey is the young lady pointed out at the HH 89 drawing as the most beautiful young lady.

Jan and Leroy's other hobbies are loving their children, taking them to their activities. Besides their regular studies, Karey plays soccer, the trumpet, drums, basket ball, amateur radio, and is in the high school choir. For 7 years Karey has played catcher on the boys baseball team.

Kris plays soccer, baseball, band and is on the speech team. Both of these youngsters have called the Net, and both have jobs in the summer months.

N5JUT Jan and N5JWK Leroy attended Bus Ham's Radio School. When the children got their Extra Class license I asked Leroy if he felt embarrassed with them being ahead of him. He quickly said, "Hell no, I'm so proud of our kids it don't make any difference." Every one knowing them are proud of them. N5JWK won a TS-440-S Kenwood radio at HH 87. Leroy works at Temtrol Inc. They manufacture airconditioners. He has been on the fire department for 13 years, recently he was elected fire chief. N5JUT Jan has a beauty

EDMOND AMATEUR RADIO SOCIETY

Elections were held at the November Business meeting for the 1990 officers. They are as follows:

President
Tommie Guinn, KA5WAV
Vice-President
Joel Beasley, KB5FCF
Secretary
Don Seible, N5LZE
Treasurer
Clara Granger, KG5UG
Board Members
Phil Wolfenbarger, N5HIP
Brad Kiespert, KG5UK

The Voter Card for the 135 repeater system has been temporarily removed and been sent back to the manufacturer for upgrade modifications to element some of the persistent problems we have had (so the 1100 foot receiver will not be operable until it is re-installed). Brad, KB5LID, is working on an equalizer to help the voter system to work even better.

The .5 UHF repeater is back on the air with the new "inexpensive" controller.

Marlin McGee, N5LZF
EARS Vice President

IF THERE'S ANYTHING WRONG
WITH YOUR CLUB LISTING,
CONTACT YOUR PRESIDENT TO
GET IT CORRECTED!



shop. Both she and Leroy do woodwork and crafts for a hobby.

Best wishes to this young family, you are on the right track.

Drive safely, take care of yourself so I may talk with you instead of talking at you.

WA5PFFK, Ralph
(Ed: Your note sounded good to me. JKH)

11/17/89

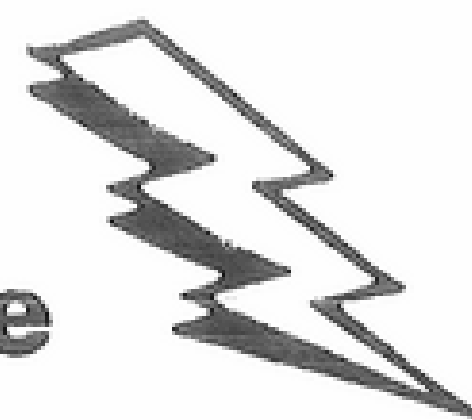
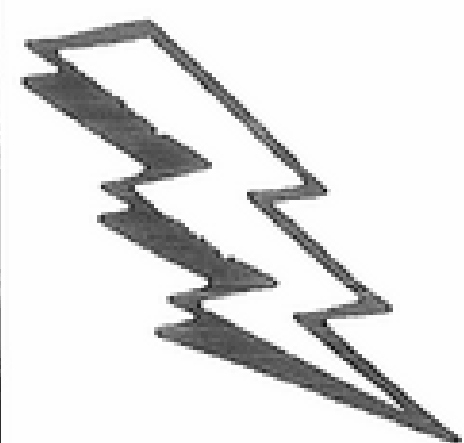
EXPIRED Members Roster

Zip	Name	Call	Address	City, State	Phone	MZ	Club #'s	Date
06111	PROG MGR , ARRL CLUB	EXCH	225 MAIN ST	NEWINGTON, CT		6	8	
20036	COUNCIL , CHRIS INLAY GEN EXCH		1302 18TH ST NW	WASHINGTON, DC		6	8	
42141	EDWARDS , MARTY	EXCH	304 1/2 LESLIE AV	GLASGOW, KY		5	8	
73008	NOLFENBARGER , PHIL	N5HIP	2605 N. TERRY AVE	BETHANY, OK	7890681	1	3 11 16	
73008	HUSTAK , JOE	WA5ZNO	6821 NW 27	BETHANY, OK	7898587	1	4	89/10
73008	SCOTT , MERRILL	WB5PTQ	6204 NW 22	BETHANY, OK	4952829	1	4	89/10
73008	CALKIN , PAUL	N5NIU	6302 N.W. 31 TERR.	BETHANY, OK		1	3	89/10
73013	HARRIS , JOHN	WD5GLF	1900 SMOKEY HOLLOW RD	EDMOND, OK		1	3	89/09
73016	HOWRY , J.C.	N5KLN	BOX 186	CASHION, OK	4332222	2	4	89/10
73064	ELLIS , LUKE	N5MYZ	410 N WESTCHESTER WAY	MUSTANG, OK	3762870	2	1	89/10
73065	FLETCHER , JAMES	W5MPA	5005 SW 174TH	NEWCASTLE, OK	3874356	2	1	89/10
73070	GUTHRIE , BOB	A	BOX 6195	NORMAN, OK	3213168	2	15	
73070	WHITE , RICHARD	KF5IM	BOX 2652	NORMAN, OK		2	5	
73071	STHR , JOHN A.	N5ABC	614 SMALLEY DR	NORMAN, OK	3648761	2	1	89/09
73107	BROWN , WALLY	A	2648 NW 14	OKLA CITY, OK	5243533	1	8	
73107	SINGLETARY , BOB	W5MCM	2830 N.W. 22	OKLA CITY, OK		1	3	89/10
73110	MCCALLAND , DEWEY	A	1008 IDYLWILD DR	MIDWEST CITY, OK	7376084	1	8	89/07
73110	WANN , MAX	WB5GYS	804 GREENWOOD DR	MIDWEST CITY, OK		1	3	89/09
73112	SCHALLENBERG , VAN	NF5H	4013 NW 61	OKLA CITY, OK	9424394	1	4	89/08
73115	DONNELL , MURIL	W5LFV	4812 ELMVIEW DR	DEL CITY, OK		1	3	89/09
73120	WIMER , JIM	KASLER	2400 W. BRITTON RD	OKLA CITY, OK		1	3	89/09
73122	GIMMEL , RICHARD	KA5TH	6608 WILLOWRIDGE	OKLA CITY, OK		1	3	89/09
73127	JANKA , RAYMOND	W5REY	2708 WINDSOR BLVD	OKLA CITY, OK		1	3	89/10
73129	MANGHAM , TOM	K5LD1	3913 S MABLE	OKLA CITY, OK	6775291	1	1	89/10
73130	KREHER , BOB	WA9FCT	121 BROOK LANE	MIDWEST CITY, OK		1	3	89/10

11/17/89

EXPIRED Members Roster

Zip	Name	Call	Address	City, State	Phone	M2	Club #'s	Date
73132	HARDIN , LARRY	KF5XL	5708 N.W. 86	OKLA CITY, OK		1	3	89/09
73132	ADKINS , VICKI	N5DLM	8517 NW 92	OKLA CITY, OK	7220074	1	4	89/09
73132	RIDGWAY , VIRGIL	W7JTG	6449 N PENIEL	OKLA CITY, OK	7218411	1	1	89/09
73159	GOUGH , BILL	K5JJJ	3009 S.W. 64 TERR	OKLA CITY, OK		1	3	89/09
73160	DAYS , PAUL	WA1LGG	1525 GLENWOOD	MOORE, OK	7998180	1	4	89/10
73737	DAY , BETTY	A	CHESTER STAR ROUTE	FAIRVIEW, OK	2273462	40	14	
73737	POOL , BILL	KA5ZED	HCR 60 BOX 90	FAIRVIEW, OK	2274068	2	14	
73737	PAINTON , DENNIS	WK5V	HCR 60 BOX 102	FAIRVIEW, OK	7643599	2	14	
73737	DAY , JACK	NN5Z	CHESTER STAR ROUTE	FAIRVIEW, OK	2273462	2	14	
73737	PAINTON , NADINE	N5FMH	HCR 60 BOX 102	FAIRVIEW, OK	7643599	40	14	
73737	DOW , NORMAN	K85DIA	601 W BROADWAY	FAIRVIEW, OK	2274346	2	14	
73737	SIMPSON , RUTH	N5FUR	827 S 13	FAIRVIEW, OK	2272791	2	14	
73737	MCCOLL , TERRY	KA5TVF	517 W CENTRAL	FAIRVIEW, OK	2273672	2	14	
73755	MARTIN , REETA	KA5SLY	RT 1 BOX 156A	LONGDALE, OK	2273013	2	14	
74012	WICHY , BIZ	W00HCO	1840 S FIR AVE	BROKEN ARROW, OK		2	19	
74601	HUSTON , B.J.	K85DOO	142 WHITWORTH DR	PONCA CITY, OK	7624726	2	19	
74601	HUSTON , CHIP	K85DOD	142 WHITWORTH DR	PONCA CITY, OK	7624726	40	19	
74601	WHITE , DEBBIE	KASWBX	933 RIVIERA	PONCA CITY, OK	7655707	40	19	
74601	JACKSON , LIN	KA5ZJM	1908 JOHN ST	PONCA CITY, OK	7627299	2	19	
74601	HOFFATT , LOU	W5GIW	210 N 6	PONCA CITY, OK	7622656	2	19	
74601	MORGAN , MIKE	N5LPZ	163 KAY DR	PONCA CITY, OK	7659539	2	13	
74653	HOWE , GUY	K5KHA	1109 N 6TH	TONKAWA, OK	6283154	2	19	
74801	HANNIFAN , HUGH	N5EXI	BOX 812	SHAWNEE, OK	2735758	2	4	
74801	LEBUND , BOB	W2HK	29 SEQUOYAH	SHAWNEE, OK		2	3	89/08
74801	COPE , GEORGE	K85HR	RT 6 BOX 269	SHAWNEE, OK	2752147	2	3	89/09
74857	O'DONNELL , STEVE	N5LAP	BOX 317	NEWALLA, OK		2	3	89/09



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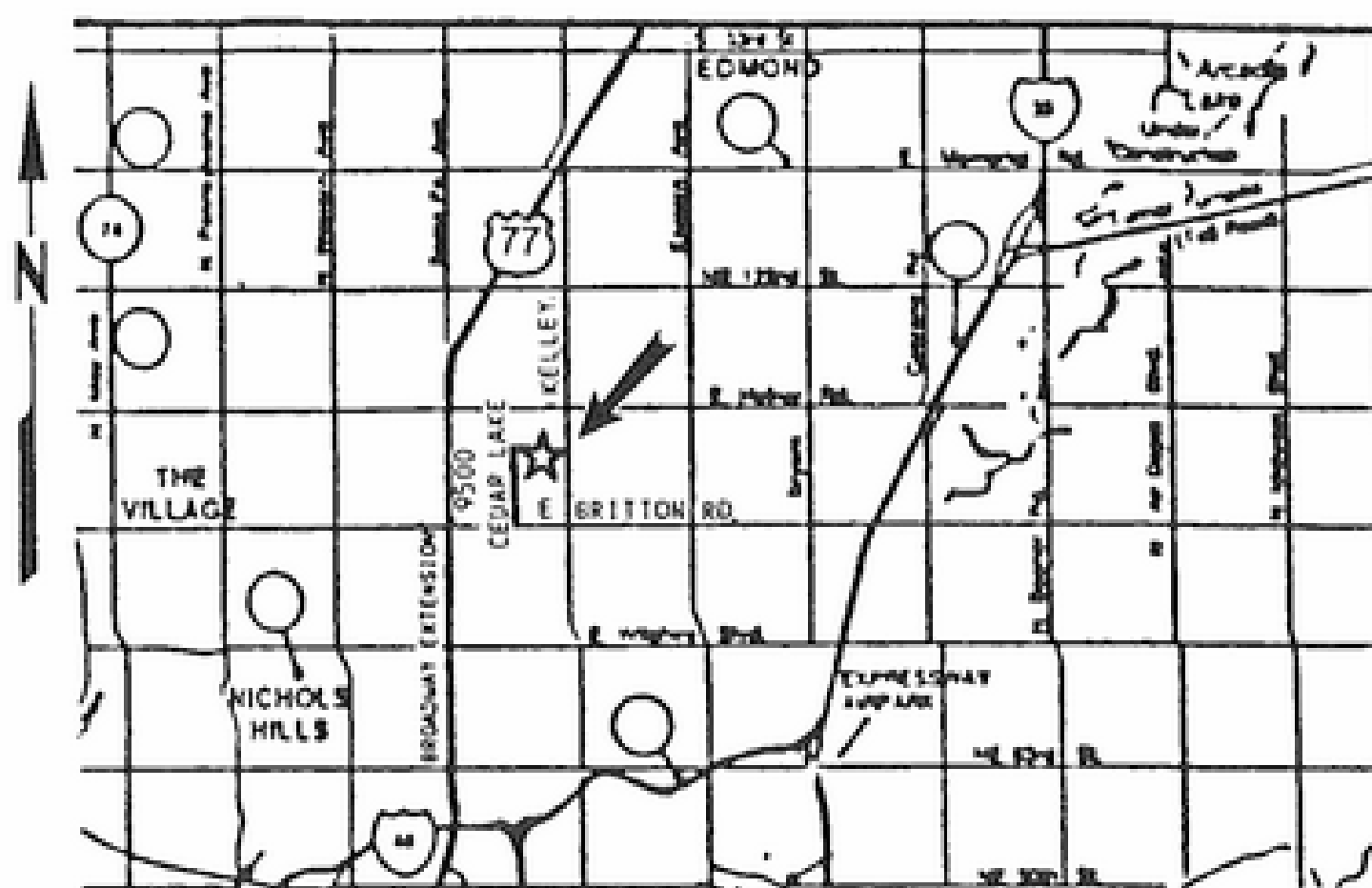


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VHF Club
NEWS

WSLOW
*The Elmer Gochler Memorial
Station*

Minutes of November Meeting

Meeting was called to order at 1152 a.m. at Favorites restaurant by President Jack, WB5ZKZ, with 25 members and guests present. Minutes of the October meeting were approved as published in the C&E. Ellard, W5KE, gave the Treasurer's report, which was approved.

Motion passed that instead of having a nominating committee, we'll take our chances in January (ahem, the railroad is coming). Motion also passed that we combine Christmas dinner with the December meeting on the 16th. Motion passed that we each bring a white elephant gift to the December meeting. (Suggestion: keep it under a couple of bucks, and keep it light weight!!)

Motion passed that we donate \$100 to the Salvation Army to help with the Senior Citizens feeding program.

Ellard, W5KE, reported that Leonard, W5MEL, is in Baptist Hospital, scheduled for an angioplasty.

Bob, W5HXL, showed his home brewed microphone, for which he was soundly booed. Meeting adjourned at 12:07 p.m. and we watched Charlie, WA5JGU's video tape on how to unbuild/build a house in a hurry.

The members of the VHF Club wish you and your families the very best seasons greetings and a prosperous new year. Joe, K5JB, Sec'y

Packet Activity

I was kind of disappointed this month when we received the HAPN-T 4800 Baud radio modem kits from Hamilton and Area Packet Network, a club in Hamilton, Ontario. Dave, WB5FWE, combined an order from Monte, WB5RZX; Terry, K5HP; and me so we would have enough of the things to do some experimenting. Somehow we had the impression that they were designed to connect to the radio speaker and mike circuits rather than directly to the discriminators and modulators.

I have no qualms about opening a radio and making modifications, but one of the deciding factors that made us choose the HAPN units was that we

were willing to compromise on the baud rate for an expected interchangeability convenience. Well, in the delivered instructions, we discovered our impression was wrong. I expected a more sophisticated design also - some kind of polyphasing with frequency normalization, in the same order as that done on the G3RUH, K9NG and WA4DSY modems.

It was not to be. They are relatively simple FSK units with active filter demodulators based on Op amps. I pulled up an old file from the 146.415 packet bulletin board, and it clearly stated that these modems were FSK designs and implied that they had to be wired to the frequency modulator and the discriminator. There is very little technical information provided with the kits; it points to a reference in the August 1986 Ham Radio magazine, which I am still searching for. The kit components looked to be good quality, the circuit board looked sturdy, but I guess it was a couple of weeks before I put my two kits together. I have not tried one on the air yet. I think my slothfulness is because I am not sure what the heck I am going to do with them. When you read the following article, you will see what I mean.

Monte, WB5RZX, beat me pretty good on getting them assembled. He put four of them together within maybe a week of their arrival.

I read a message from someone who lamented that the reason there were so many packet bulletin boards was because there is nothing else technical to do in packet! How can he be so unimaginative and still be an amateur radio operator - don't tell me. I think I know.

There are so many technical things to do in packet radio I don't have nearly enough time to do them all! Criminy, my packet junk box is littered with packet experiments which have succeeded, failed, or whatever, but which provided me many hours of enjoyment tinkering and attempting to keep my creativity exercised and supple. Tsk, Tsk!

I got a ROM from PacComm to upgrade the TNC-220, mostly to get the KISS protocol for the thing, and it had the personal mailbox option. A light bulb went on in my head. I could still retain connectivity on .01, could capture a lengthy message from time to time, could eliminate dependence on the AT clone running a big mailbox port on that frequency, and could free up one

serial port for the experimenting mentioned above. It has worked out real well. -KD5FX can still send his Kay Kounty C&E column and others can be greeted by the friendly little computer in the TNC.

Incidentally, last month KD5FX had some trouble getting his column to me and we used all the tricks available in the TCP/IP networking program on my end. I established a telnet (keyboard to keyboard) session with him and he started sending the file. Then for some reason he retried out. I established a second session with him and got the rest of the file. I put the two parts together after we finished. I am not sure he figured out how I did that.

I told him I would get him the TCP/IP suite but have not gotten around to it (I haven't forgotten, Dave).

I did get a message from Jean-Pierre, FM5AB, in Martinique, that said he had received the disk containing the PBBS program for the Apple. I sent it to him so long ago that I don't even remember when it was. It was before hurricane Hugo, anyway. He only had an Apple to put on packet and learned about the PBBS Hoss, WA5ZAI, is running in Mount Vernon, VA and wanted one for his very own.

Incidentally, Hoss blew into Oklahoma City one evening last week and we had a heck of a nice visit. I'll be paying him back next week.

What follows is a description of the TAPR packetRADIO which was announced as being in the development phase at Dayton last spring. J, KB0QJ, retyped it from the TAPR Packet Status Register, Mac, K2GKK, edited it, and I whacked it all to heck so it would fit. Joe, K5JB

TAPR packetRADIO

(Extracted from an article written by Greg Jones of the Tucson Amateur Packet Radio Corporation packetRADIO Development Team for the TAPR Packet Status Register, October 1989, Issue #36, page 4. Retyped by J, KB0QJ.)

Design Goals

The purpose behind the packetRADIO project is to design a low cost, high speed RF box for the average amateur. There were a number of design criteria set forth as goals from the start of the project. At the end of this article are the current specifications for the radio.

- o Design a 9600+ high speed packet radio. Amateurs need faster local access than 1200 baud AFSK. While many will want to put the packetRADIO to work on their backbone links, it is the feeling of the development team that future network linking will be done at much higher speeds. By moving local access to 9600 bps, our local packet frequencies will be better utilized.

- o Low cost. The design should be simple and easy to reproduce. By using simple FSK techniques that are already in use, such a radio will be compatible with other designs (TAPR, TPRS TexNet, G3RUH). This also translated to less complexity than current commercial radios (i.e. no touch-tone, PLL, scanners, voice synthesizers, etc.).

- o Fast turn around time between transmit and receive. This would allow the modem to operate as closely to 9600 bps as possible. The design now a one millisecond (ms) turnaround compared to the average of 150 ms to 400 ms of commercial voice radios. To maintain this fast turnaround time, the team felt that the radio needed a 25 watt output to be acceptable for the widest variety of applications. Having an amplifier outside of the unit would again increase the turnaround time, which is the critical factor for better performance.

- o Include a 1200 baud AFSK modem to encourage the average Amateur to make the switch to the new design. This also allows compatibility with the existing standard.

- o The design should allow for easy modifications to obtain different bands and speeds (i.e. 220 MHz and 19.2 Kbps). The design should also allow full-duplex operation.

A number of items were included in the wish list:

- o Enhanced TNC built into the design which could also control the radio.

- o 220 MHz capability in the initial test units.

Radio Technical Information

The TAPR packetRADIO is a crystal controlled, 2-meter four frequency radio designed specifically for 1200 and 9600 bps packet operation. The TAPR radio employs PIN diode switching and an offset transmitter oscillator to provide fast turnaround between transmit and receive. (In the description that

follows, pretend that you are following a block diagram.)

Starting at the antenna

The antenna is connected to a lowpass filter which attenuates the harmonics of the transmitter and provides high frequency selectivity for the receiver. The output of the lowpass filter is connected to the PIN diode switch. This switch provides the transmit/receive RF switching in the transceiver. A PIN switch allows fast switching between transmit and receive.

Following the receive path

The received signal from the PIN switch is connected to a 2-pole LC filter providing RF selectivity for the receiver.

A FET pre-amp follows the LC filter providing a nominal 10 dB of gain and a 3dB noise figure with a +30 dBm third order intercept point. The FET pre-amp output is fed to a 3-pole helical resonator which provides additional RF selectivity. The resonator output is fed to a FET mixer which provides a nominal 15 dB of gain with a +30 dBm intercept point.

The 45 MHz IF output of the first mixer is fed to a 2-pole Piezo Technology model 2844 crystal filter. The crystal filter provides selectivity to protect the back end of the receiver. By using a crystal filter at this point in the receiver, the intercept point of the overall receiver is set by the pre-amp and mixer intercept points. The overall intercept point of the front end to the mixer output was measured to be -2 dBm. This intercept point provides better than 70 dB IM protection of the receiver.

The output of the 45 MHz crystal filter is fed to a Signetics NE605 IC which provides the second mixer, second local oscillator, 10.7 MHz IF amplifier and discriminator. The first 10.7 MHz crystal filter is a 4-pole Piezo Technology model 5182. The second 10.7 MHz filter is a 2-pole Piezo Technology model 2195. The combination of the 45 MHz and 10.7 MHz crystals provide tight selectivity for good adjacent channel protection with a flat group delay response.

Data carrier detect is provided from the RF level circuits of the NEC605. A front panel control is provided for the operator to set the sensitivity for the DCD.

The discriminator output of the NEC605 is connected to the 1200 and 9600 bps

modems. Each modem then provides the appropriate received data stream to the TNC interface.

Local Oscillator

The local Oscillator board provides a local oscillator signal to the receiver and transmitter. Four crystal oscillators are provided for up to four channel operation. The oscillator also acts as a tripler providing a 33 to 34.33 MHz drive to the tripler. The tripler takes the oscillator/tripler signal and multiplies it to the 99 to 103 MHz range.

The buffer amplifier provides gain to the 99-103 MHz signal to provide a nominal +10 dBm signal out of the LO board. The power splitter divides the RF output of the LO board equally between the receiver and the transmitter.

Exciter

The exciter board contains a frequency modulated, crystal controlled 45 MHz offset oscillator. The modulation input for the oscillator is provided from the digital board transmit modem. The transmit modem contains a finite impulse response (FIR) filter to filter the 9600 bps transmit data. In the 1200 bps mode, the transmit modem uses ROM containing the 9600 bps FIR filter to generate the 1200 and 2200 Hz tones. The output of the 45 MHz oscillator is mixed with the output of the LO board in a NE602 mixer IC.

The 144-148 MHz signal out of the mixer is filtered in a 2-pole LC filter and then amplified using two MMIC amplifiers. The output of the MMIC amplifiers is then filtered in a 2-pole LC filter and sent to the PA board.

The exciter output is amplified by a Toshiba S-AV7 power amplifier on the PA board and then routed to the PIN switch.

Modem Technical Information

The 1200 and 9600 bps modems designed for the TAPR packetRADIO are a culmination of years of experiments with 1200 and 9600 bps amateur packet operation. The 1200 bps modem incorporates all of the information obtained from the TAPR TNC-1 and TNC-2 EXAR 2211 receive modem tests. The 9600 bps receive modem incorporates experience from the TAPR, TPRS TexNet, G3RUH and GRAPES modems into a low cost, high performance FSK receiver. The selection of flat group delay filters in the IF of the packetRADIO simplifies the design of the 9600 bps modem by not distorting the data signal in the receive IF filters.

The Signal is de-emphasized and detected in an EXAR 2211 IC. The limited data from each modem is then sent to the digital board where clock is recovered from the received data stream. The re-clocked data is then sent from the digital board to the TNC. The digital board also provides selectable RF or digital DCD.

The transmit modem incorporates digital signal processing (DSP) techniques to generate the filtered FSK signal for the 9600 bps modem and to generate the tones for the 12 bps modem. This creates a modem which only requires setting the deviation in the transmitter.

The digital board contains the TNC interfacing circuitry. It also provides the transmit time-out function, data and control lines to and from the TNC and radio, and clock generation circuits used by both the radio and transmit modem. A 16 and 1 times clock is sent to the transmit modem along with the the transmit data to operate the transmit ROM. The transmit ROM contains a finite impulse response (FIR) filter which filters the transmit data in the 9600 bps mode. The transmit ROM also contains a 1200 and 2200 Hz tone generator for use in the 1200 bps mode.

Specifications

Power: +10 to +17 VDC; Number of Channels: 1 to 4; Frequency Range: 144-148 MHz (adaptable to 220 and 440 MHz)

Transmitter Power output: 25 watts into 50 Ohms; Mismatch: Stable into a VSWR of 3:1; Modulation: 1200 bps - 3 kHz deviation of 2200 Hz tone, 9600 bps - filtered FSK, +/- 3 kHz deviation; Spurious output: -60 dBc; Keyup time: Less than 1 ms; Lineup: Modulated 45 MHz offset crystal oscillator mixed with receiver L.O. to produce output operating frequency.

Receiver Sensitivity: -113 dBm (0.5 microVolts) into 50 Ohms for 10⁻³ BER; Intermodulation: -70 dB; Spurious response: -80 dB; Time to carrier detect: 3 millisecond (9600 bps); 15 millisecond (1200 bps); Lineup: FET preamp; One Crystal-controlled L.O. per channel (for enhanced frequency stability); 45 MHz 1st I.F.; 10.7 MHz 2nd I.F.; Linear phase response multi-pole filtering.

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(2) McDermott, Tom, N5EG and Tom Aschenbrenner, WB5PUC, "the TEXNET packet switching network part 2: hardware design." Ham Radio Magazine, April 1987, p.29.

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(6) Heatherington, Dale, WA5DSY, "A 56 Kilobaud RF Modem." Proceedings of the 6th ARRL Computer Networking Conference, Newington, CT: ARRL, 1987, pp. 68-75.

New Frequency Units from NIST

Earlier this month, the National Institute for Scientific Tomfoolery released their new system of measurement for use in the Amateur Radio Service, and is modeled after the basic frequency measurement - Hertz.

For you old-timers, Megahertz (MHz), Kilohertz (kHz) and Gigahertz (GHz) are still being used, so there's absolutely no need to recalibrate those dials and displays.

Here are the newly released measurements, as issued by the Institute on NIST Form BS.285574.IT --

AUROHERTZ (AHZ) - frequency of earaches suffered from wearing ill- fitting headphones.

BOTMHERTZ (BHZ) - frequency of interruptions made by small, noisy children during ARRL sponsored contests.

DIGIHERTZ (DHZ) - frequency of pain encountered after countless hours on packet. Can be converted for use on RTTY and AMTOR.

ERGAHERTZ (EHZ) - frequency of nagging received from XYL for neglecting household chores on Field Day week.

FIDOHERTZ (FHZ) - frequency of times the dog is kicked out of frustration after

your 100th DXCC QRP contact sends you a card stating "Cannot confirm our QSO".

HUNIHERTZ (HHZ) - frequency of missed opportunities to enjoy quality time with the XYL simply because the bands were open.

TUMIHERTZ (THZ) - frequency of meals missed while working rare DX.

VISAHERTZ (VHZ) - frequency of times wallet is opened during hamfests.

YAGIHERTZ (YHZ) - frequency of hours spent repairing your antenna array after your neighbor backs into one of your guy wires with his pick-up truck.

These new frequency standards have been passed on to you as a public service. Use them often, and enjoy the benefits derived from being on the forefront of modern technology. And remember, since you heard about it on Packet, it MUST be true!

From WB3KHQ @ KA3T. Found on WB5RZX PBBS by K2GKK

Updated Medical Terms

ARTERY The study of fine paintings
BARIUM What you do when CPR fails
CESAREAN

SECTION A district in Rome

CHOLIC A sheep dog

COMA A punctuation mark

CONGENITAL Friendly

DILATE To live long

FESTER Quicker

G.I. SERIES Baseball games between teams of soldiers

GRIPPE A suitcase

HANGNAIL A coat hook

MEDICAL

STAFF A doctor's cane

MINOR OPER-

ATION Coal digging

MORBID A higher offer

NITRATE Lower than the day rate

NODE Was aware of

ORGANIC Musical

OUTPATIENT A person who has fainted

POST-

OPERATIVE A letter carrier

PROTEIN In favor of young people

SECRETION Hiding anything

SEROLOGY The study of English knighthood

TABLET A small table

TUMOR An extra pair

URINE Opposite of you're out

From N6RVZ @ K6IYK. Lifted from WB5RZX BBS by K2GKK.

The South Canadian Amateur Radio Society

The November meeting of SCARS was held on the 11th at the Red Cross in Norman. A total of 22 members were present when the meeting was called to order by Andi, WU5W. No treasurers report was available. The October meeting minutes were published in the C&E and were approved as published.

Old Business:

A Novice license class started on Monday, the 6th with about 20 people attending. Ken, KA5EFJ is the organizer and several club members are helping with the instruction of various subjects.

The annual SCARS Christmas party will be held on Friday December 8th at 7 p.m. The cost of \$5 per adult will help defray the expense of the furnished food. The usual "white elephant" gift exchange will also be held. Please sign up to bring a covered dish. The sign up sheets will be circulating at the Red Cross on Saturday mornings between now and the party.

At a previous meeting it was decided to buy a set of call books to keep at the club station. These will be purchased as soon as the new edition is published.

New Business:

Don, KB5ABS, head of the nominating committee to select a slate of club officers for the coming year, presented the following names to the club for consideration.

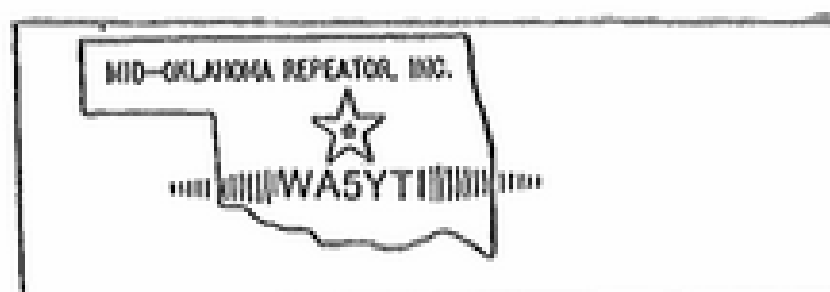
President, Ken Neptune, KA5EFJ
V/P, Dorinda Skaggs, N5IUA

Secretary, Ken Brown, N5KUK

As usual, Q. R. Zedd, A5A, was nominated from the floor for the office of president. Although the club constitution requires that nominees accept their name being placed on the ballot, and A5A was nowhere to be found for this meeting, the rules were temporarily suspended to allow the election to take place. When the votes were counted KA5EFJ narrowly edged out A5A for the highest office. It is not known if the fact that several people stepped out of the room for coffee about the time the vote was taken had any real impact on the outcome of the election.

Monte, WB5RZX was not available so the office of treasurer will be considered later.

A magazine article written by Andi, WU5W, and Ken, N5KUK, describ-



Meeting was held on 11-07-89 at 7:30 pm at Warr Acres Library. Due to the small turnout, elections were postponed.

December meeting will be a dinner meeting and will be at Furr's Cafeteria - NW 63 and MacArthur, OKC. Room is reserved from 7 pm on - come and enjoy visiting with the other members.

We have noticed for the last several issues of the C&E that a mistake has been repeated. The callsign of all MORI

ing repeaters in general and the SCARS repeater in particular, was published in the Japanese CQ. (No, we did not write it in Japanese, it was translated by club member Koichi Takase, J1BHH/N5KUT). A copy of the magazine was mailed to Jerry, W5MCJ, who arranged to have the article sent to Koichi in Japan and has corresponded with him regularly to get questions answered during the preparation for publication.

There is a problem with the HF beam antenna at the club station. It shows high SWR sometimes when the rotator is turned. It will be investigated next week.

Committee Reports:

Technical committee: A few meetings back a suggestion was made to install a receiver on the west side of I-35 to improve repeater access from the "rf hole" that exists in the Brookhaven area. The exact way to accomplish this has not been decided but one thing is sure, it will take some money. A suggestion was made that we start a repeater upgrade fund of money earmarked solely for this purpose. Rather than raise dues or make an assessment for this purpose we decided to recommend that the dues remain \$16 per year but that members be encouraged to round up to \$20 and the remainder be placed the repeater fund. This did not need a vote because it was only a suggestion of donations.

CORA: Joe Green, KA5AXQ and Don Schader, KB5ABS were selected as the SCARS representatives to CORA. Dorinda, N5IUA is the current CORA vice president.

The meeting adjourned at 9:50 am without a drawing, but there was some computer generated artwork announcing the novice class.

Ken, N5KUK

repeaters is, and has been for some time, KA5TDA. Another mistake on the calendar states that our meeting place is The Homestead, which has been closed now for several months and we have a different meeting place each month!

For the MORI members as well as any other persons interested, there is a newsletter for amateur radio operators being published. The editor is looking for more subscriptions and also articles. If anyone is interested in seeing an issue of this newsletter, please contact KA5ETA, Bob, 799-1765 or WAGHNO, Joel, 918-251-5490 or Box 1893, Broken Arrow OK 74013.

The technical committee reports that the equipment for the Chickasha link is being tuned and ready to go on line and the trustee of the Vinita repeater (147.36+) reports that they are ready to hook-up and are also talking to trustees in Missouri who may hook up to this system also! K5QMJ in Enid reports that they have received their crystals and are tuning up receiver and xmitter preparatory to hooking up and the Enid repeater will be on 147.15+ offset. As you can see, this will give a great amount of coverage on VHF/UHF. If any clubs or persons would like to help with equipment or like to join, they may contact Bob, KA5ETA, or Mike, KA5TDA, or Glenn, WN5J.

By the time you receive
Continued on back page.

LARGE HAM ESTATE AUCTION NO MINIMUM BIDS !

SATURDAY - DECEMBER 9

6788 EAST 28TH TULSA OK

INSPECTION 9 - AUCTION 10 AM
Cash or check - Ham license
Estate of WD5HDV

50' tower with several antennas (Take down), YAESU FT 221R 2 meter transceiver, KENWOOD TS-940S, YEASU FT 208R 2 meter HT, YAESU FT 902 DM, ICOM IC551 6 meter, YAESU FT 227 R 2 meter and a whole lot more.

Estate of N5EOO
Tower, rotator, control (Take down), YAESU FT 227 RB 2 meter, Bearcat 210XL scanner, WILSON T-1405SM VHF handheld, ICOM IC-2AT, JOHNSON CB HT CH.22, SONAR FR-103 VHF HT, several beams and many other items.

2 complete Ham Shacks.

Auction by TULSA RPTR. Org.

SUN	MON	TUE	WED	THU	FRI	SAT
NOVEMBER S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	JANUARY S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31			 Lots of Christmas Dinners Check your club's entry for details.	1 GREAT PLAINS CHRISTMAS DINNER	2 GREAT PLAINS CHRISTMAS DINNER
3 		5 MORI CHRISTMAS DINNER	6 	7	8 CIMARRON SCARS CHRISTMAS DINNERS	9
10 WHEATSTRAW CHRISTMAS DINNER	11 EDMOND CLUB	12 KAY COUNTY DINNER 76'ERS OIDAR		14 AERONAUTICAL CHRISTMAS DINNER ALTUS AREA	15	16 EDMOND SOCIETY VHF CLUB DINNERS
17 	18 VE EXAM 6 PM RED CROSS BLDG 10 & HUNSON	19 OK CITY AUTOPATCH	20 EDIT NIGHT FOR C & E	21 1st Day of Winter	 	23 
24  31	25  MERRY CHRISTMAS Christmas Day	26 NO CORA MEETING	27	28	29	30

Q. R. Zedd

GOLDEN OLDIE TIME

(This column first ran in 1986, and is reprinted by request.)

Tw'as the night before Christmas
 And all through the shack
 Not an eyelid was open --
 Not even a crack.
 And Zedd in his nightshirt
 And Tondelayo so cool
 Were all settled down
 For a nap ere the Yule.
 The rigs were scanning,
 The Benchers were quiet,
 And a station in Fuji
 Was causing a riot
 When out on the lawn
 There arose such a clatter,
 Zedd sprang from his bed
 To see what was the matter.

The moon on the wires
 Of the towers and beams
 Gleamed like the best
 Of a DXer's dreams.
 When what to Zedd's
 Wondering eyes did appear
 But a Kawasaki 1000
 And a bag of ham gear.
 With a little old driver
 So unfamiliar with trauma,
 Zedd knew in a moment
 It must be his Momma.

To save you some time
 We'll get right to the best,
 And skip how she'd cycled
 From Mena on west.
 For as Zedd barely saw her,
 And was about to call,
 Through the window she came
 -- Rigs, cycle and all.

She was dressed all in satin
 From her head to her feet,
 Red nails and spike heels
 Helped make her more neat.
 Her hair, it was frizzy,
 And her eyes were so bright
 That any cowboy would know
 That this was the night.
 Her dimples were laughing,
 She was covered with wiggles,
 And Zedd, just seeing her,
 Was convulsed by his giggles.

She said not a word,
 But gifted the DX hog
 With new rigs and keyers
 And a 1,000-page log.
 Then, leaving Tondelayo
 10K of Pampers and a computer,
 She fired up the cycle
 With a roar and a hooter.
 And rolling the throttle
 And popping the clutch,
 She blasted on out of there
 Doing wheelies and such.

But Zedd heard her exclaim
 As she roared out of sight --
 "Work 'em all again, honey!
 And keep on being the best!
 Happy Yuletide to you --
 And cheers to all the rest!"

-- KU5B



this, Thanksgiving will have come and gone. Hope everyone had a great Thanksgiving and thoroughly enjoyed the holiday.

Don't forget the December Christmas meeting-Furr's Cafeteria-NW 63 & MacArthur-7 pm-December 5th-hope to see you then.
 Happy Holidays, 73, Bob KA5ETA