

SECOND CLASS MAIL

Postmaster, see page 3

No. 135 April 1986

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Q.R. ZEDD EARS MORI COCO 10 WEATHER 12 K 5 J B

HAM HOLIDAY WHEATSTRAW 15 7 QCWA 16 GPARC

18 OKLAHOMA REPEATER SOCIETY

OKLAHOMA CITY AUTOPATCH ASSOCIATION, INC.

CONGRATS: To Dick Baker, WB5TMW, for his WORLD FIRST in transmitting weather radar presentations by packet ham radio. To my knowledge, no one else has done this anywhere. Any volunteers to write it for QST?

THANKS: At this point would like to thank Sue, KE5QN, for helping me get all those envelopes stuffed, addressed and stamped. Her skills with the copy machine are also deeply appreciated.

THE SKED: Our April meeting Antenna will feature a Crazy Contest. (See rules elsewhere in this issue.) Also, we will try a different meeting place. This meeting will be Tuesday. 7:30 p.m. (Not April 15, at April 22 reported 25 The meeting place is building, Federal Mutual 3501 N. MacArthur. Lots of free parking and a very nice meeting

Also scheduled at the April meeting is the showing of Field Day video tape from courtesy of our Field Day chairman, Charles, NSFMU.

ALERT: At the March meeting, Hal, WB9VMY, showed a sale flyer from Capitol Electronics advertising a "TRUCKER SPECIAL CLEAR CHANNEL ALL-MODE MOBILE/-BASE TRANSCEIVER. " This equipment is a TEN-METER SYNTHESIZED HAM TRANSCEIVER. A visit your club president to this dealer in an attempt to view one of these little jewels proved fruitless, since the item was said to be "temporarily out of stock." A shipment is expected within a few days. In conversation with the store manager, one Gary Welch, I learned he believes these units are perfectly legal for sale to any person for whatever use buyer may desire.

He was asked to discontinue the sale of these items to unlicensed individuals. His reply was to the effect that a person has a right to make a living and these things are perfectly legal for sale to anyone who wishes to buy one.

Since I am not a walking encyclopedia on FCC regs,

chose not to dispute his claim but suggested that he might warn buyers of this item that its use on amateur frequencies by unlicensed persons might result in confiscation of the equipment by legal authorities. Not to mention the fact that the user would get a very cool reception by those presently occupying the amateur bands.

If this sort of thing raises your hackles as it does mine. stop by Capitol Electronics for a look at the "TRUCKER SPECIAL." You might want to check out the sales flyer first. Then ask to see the "RANGER AR-3300." ΙF they happen to have one you can get a look at, check it over for an FCC type-acceptance placard or decal. If you find one, well and good. Please write down any numbers you find on the decal and tell me about it.

Then, write a letter to ARRL headquarters telling them what you found. Enclose a copy of the sales flyer so they can take appropriate action. FCC in Dallas gets a copy of your letter.

That's what I'm going to do, and I'll feel better for doing it.

PROPOSAL (no, dear, not that kind of proposal!): A "point system" for present members for bringing guests to club meetings. How's this: Bring a quest to a club membership meeting. If that guest is NOT a licensed amateur radio operator, you get one (1) point. If the guest IS a licensed ham, you get five (5) points. Ιf additional licensed ham guest joins the club before or at the next regular membership meeting, you get an additional ten points. It would be possible to rack up 16 points for bringing just one guest. Points to be awarded for the guest's first visit only.

The member with the most points accumulated by the annual club Christmas dinner wins a worthwhile award or prize. Ties could be decided by 1) the number of the member's guests who join followed by 2) the number of the member's quests who are licensed followed by 3) the number of membership meetings attended by the member. Or whatever. Think about it. Think about what we could offer as a prize to the winner. Think about who has to handle the paperwork! It'll be worth it in FCC OKAYS RETRANSMISSION OF THIRD-PARTY MESSAGES ON PACKET RADIO ABOVE 50 MHZ

The FCC released a waiver of the rules to permit retransmission of third-party traffic via packet radio under certain conditions in response to a Petition for Extraordinary Relief filed by the ARRL.

Following is the text of the waiver:

"(a) The provisions of section 97.80(b) and 97.114(b)(4) are waived to permit amateur statretransmitting digital packet radio communications (see Section 97.69) on frequencies 50 MHz and above, using the AX.25 (or compatable) protocol, to be operated under automatic control while retransmitting thirdparty traffic.

"(b) This waiver applies only to the retransmission of thirdparty traffic originated another amateur station which is under local control or remote ----- [63 taco

automatic under is operated control, devices must be installed and procedures must be implemented which will ensure compliance with the rules 15) page (Continued On.

the number of new members. By now, all CLUB NOTE: members of OCAPA should have received a package of information about our two-meter repeaters. The club officers and our repeater technicians invite the members to use all the features available. If you have not yet mailed your request for mailbox or autodial assignments, please do so soon.

WELCOME: Three new club members: Randal Harlin, NSHZT; Howard Liles, N5HZU; and Larry Miller, NSITW. May your Ocapa memberships be long and happy.

NEW CLUB RULE: At a recent Exec Committee meeting, following CLUB RULE was voted: The use of any tobacco products in any form whatever, including smoking (whether by pipe, cigar, or cigarette), chewing, gumming, dipping, sniffing or fondling, is ABSOLUTELY FORBIDDEN while operating on any frequency used by any OCAPA repeater at any time. Effective date of this CLUB RULE: April 1, 1986. 73 de NO5M

SEE AD ON PAGE 18

Q. R. Zedd

RUMORS FLY: ZEDD TO WED?

Fresh from his triumphant opening of Atlantis for the DX faithful, Oklahoma's Q. R. Zedd was back in the news this week as marriage rumors circulated worldwide.

Zedd, whose Honor Roll Ranch is just a hoot and a holler south of town, holds the nation's only 1x1 callsign, A5A, and was recently named first recipient of Britain's new Order of the Yagi in recognition of his Atlantis feat. He is known by many for his invention of radar and the plastic milk bottle, and annually bests all the rest in worldwide Dx competitions.

Most of these feats paled this week, however, as -- for the second time in recent memory -- word spread over the airwaves that the great man may wed Tondelayo Schwartz, his blonde, nubile, QSL secretary and

constant companion.

Word from the French Riviera, where Zedd and the darling girl were vacationing after their Atlantis trek, was that A5A was QRZ on the airwaves only about 17 hours per day, while Tondelayo, W5FPN, was heard at her high-speed CW keyer only 15 hours per day from the beach. While it is well known that the couple ranks among the globe's greatest ballroom dancers since Astaire and Rogers, dancing alone could not account for so many hours away from their rigs. This was the source of the romance rumors.

A fabled jeweler on the Riviera leaked to the National Enquirer a report that Zedd had bought Tondelayo another engagement ring. Tondelayo threw the last one in Lake Thunderbird two years ago when Zedd left her (and the Rev. Billy Graham) at the altar in order to rush off on a jet and activate Vietnam on all bands.

In Rome, the Swiss Guards at the Vatican all had their shoes shined, adding fuel to the rumors that the great one and his constant companion might have decided to tie the knot at last, and let the Pope do the honors while they were in the neighborhood. The Vatican had no comment, and the Vatican ham station was QRT.

Contacted on CW by a reporter for the Collector & Emitter, the precious Tondelayo was non-committal.

The exchange went like

this:

ORZ 5 K KU5B KU5B KU5B KU5B KU5B 59 59 KN W5FPN DE KU5B RRR UR 59 OKLA 59 THX ES R U MARRYING HIM BK

RR SOMEDAY MAYBE SWEETIE HW

WX IN OK? BK

TOND BY BY PEOPLE SAYING UR ABOUT TO WED ZEDD BT PLS COMMENT FER C ES E BK

ASK ME NO QUESTIONS ES ILL TELL U NO LIES 73 88 QRZ 5S K

Zedd, as is well known, was married once before, years ago, but the marriage was later annulled on the basis that it had never been consumated, the ceremony having taken place during a record peak in the solar flux which kept Zedd at his rig for two years running. His once-betrothed later married a CBer and did other bad things.

Zedd has been with Tondelayo, or vice versa, since they met on the beaches of southern California when she was 16. Her parents first objected to her joining Zedd, then 54, fulltime at Honor Roll, but that objection ended when they met the great one and saw how wonderful he was, and he promised to keep Tondelayo in high school, and tutor her on the side.

Zedd did such a great job of tutoring Tondelayo that she graduated from high school in a matter of days, and went right on to the Harvard Business School, where she racked up a perfect 4.0 grade point average and graduated Maxima Cum Laude in a little over a year. then returned to Oklahoma and used her new skills to take over all Zedd's QSLing and logging.

Tondelayo has made no secret of her adoration of Zedd, and didn't even whimper very long when he left her (and Billy Graham) at the altar for Zedd's momma, Vietnam. Constance Wilhemina Zedd of Mena, Arkansas, approves the pairing and has often said she

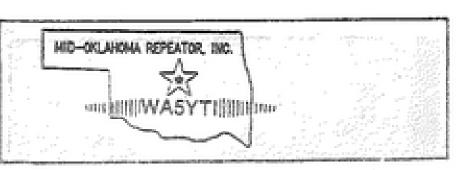
wants a grandbaby.

"I just hope it works out this time," Momma said via 40 meter phone from Mena. girl is not getting any younger, and if she doesn't catch him this year, then the sunspot cycle will start to improve again and she may have missed her last chance."

If there is truth to rumors of impending nuptials, all the faithful should know by next month this time. Zedd's private jet is scheduled to return stateside on or about May Day.

--KU5B

After the protesters have succeeded in abolishing war, maybe they'll go back to work on TVI.



Everyone is invited to our April Fool's day meeting to learn more about PACKET RADIO. This program is being brought to us by Bob Shaw, WASBQX of the Edmond ARC. This should prove to be a most interesting presentation if you're curious about this ever-growing digital communications medium.

Our thanks goes out to ND5S, N5GVK, and WD5G for the outstanding tour of the G.M. plant last meeting. They deserve a big pat on the back for their super program! There was no business conducted last meeting

The Night-Owl meeting held or March 15 was a lot of fun for all who attended, for we all had some good food and eyeball QSO's. Besides the enjoyment, we got to honor Howard Baker, W5AS for his outstanding service as net manager and official bulletin station. Doc, KX5W presented Howard with a nice plaque on behalf of the net. Keep up the good work, Howard!

There is going to be a simulated disaster exercise held or April 18th. If anyone is interested in helping, see ARES column elsewhere in this issue or check into the ARES net on thursday night on .34/.94 at

Spm.

On 18 April, there will be a simulated disaster exercise conducted at DeerCreek school in N.W. OKla. Co. This will be a joint exercise with state civil defense, ARES, and Mercy Hospital participating. This is the time to volunteer your time, so we can be prepared in case we have a real disaster. Organization has to be worked out and people trained before the real thing, so this is our chance to put forth a little time and effort toward public service. Anyone who would like to get involved is welcome, so tune in the ARES net on thursday night at 8pm for more info or contact O.J., WB5SRX at 732. 1868. All newcomers are welcome but beware---- you may learn something. Incidentally, the net is held on 146.34/94. Tune in!

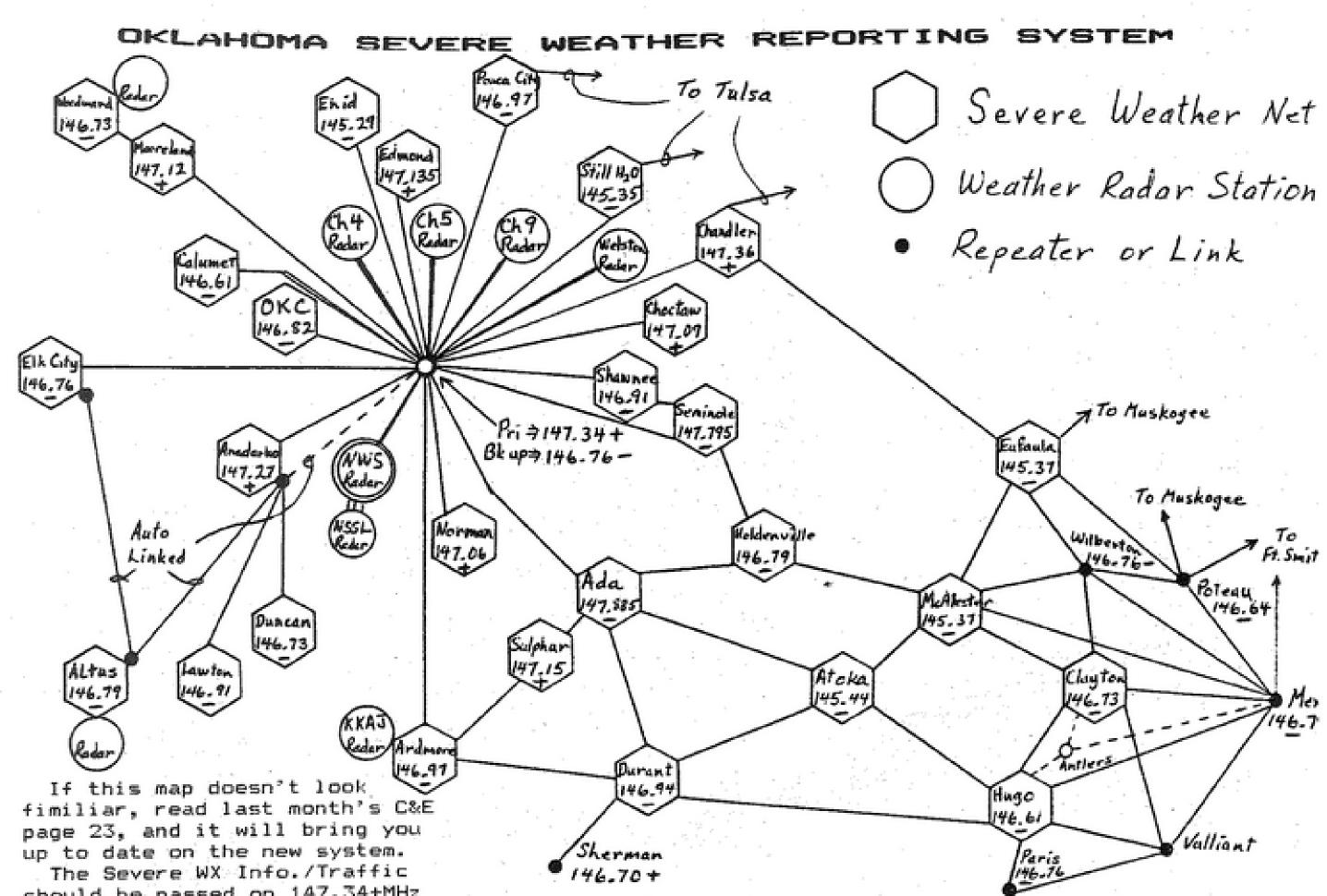
Gardeners are people who thir that what goes down must com up.

Into each life some rain mus fall, usually on a weekend whe we plan to put up an antenna.

The Oil rarely makes the san mistakes twice - the average i four or five times.

THESE CORA MEMBER CLUBS PROMOTE AMATEUR RADIO

1 AERONAUTICAL CENTER ARC NEETS: FIRST THURSDAY, FLIGHT STANDARDS BUILDING, FAA, S. NACARTHUR PR JACK IMAN, NB5SVN 677-8537 VP TOM MAMSHAM, K5LDI 677-5291 SE SLORIA SEIGNIOUS, WD5JPN 722-1740 TR BOB PACE, MASCJ6 376-3569 EDITOR: GLORIA SEIGNIOUS, WD5JPN 722-1740	9 WHEATSTRAW ARC MEETS: 2:30PM SECOND SUNDAY, LOCATION VARIES. SEE CLUB SECTION FOR DETAILS. PR JDE GARLAND, NASFLT (CALUMET) 893-2660 VP JOHNNY FISH, K56BN (CALUMET) 893-2227 S/T GEORGE HASCHING, K566L (OKARCHE) 263-7614 EDITOR: VIRGINIA BENEDA, NSEMD(NATONGA) 623-7935	16 EDMOND AMATEUR RADIO CLUB MEETS: 7:00PM SECOND MONDAY. SEE CLUB SECTON FOR LOCATION AND TYPE PR MARK MORTHCUTT, MOSDYI 755-4672 VP BOB MOORE, KASETA 799-1765 S/T KAY MORTHCUTT, MASBYJ 755-4672 EDITOR: MARK MORTHCUTT, MOSDYI 755-4672
2 CENTRAL OKLAHOMA VHF CLUB MEETS: 10:00AM THIRD SATURDAY, RED CROSS. 10TH & HUDSON (BACK DOOR) OKLA CITY PR JERRY METMORE, KD5IS 524-5080 VP PAT SHERRILL, NSPS 943-3219 SE JOE BUSNELL, K5JB 732-0676 TR ELLARD FOSTER, M5KE 789-6702 EDITOR: JOE BUSNELL, K5JB 732-0676	19 OKLA INDEPENDENT AR MEETS: 7:00PM SECOND TUESDAY SOUTHWESTERN BELL IFFICES, PONCA CITY PR DAVE WHITE, MNSLUI 765-5707 VP VERNON TREIBER, MSANV 767-1571 SE GLEN BISHOP, JR, KASPUB 767-1031 TR BIZ WICHY, WDOHCO 762-3297 EDITOR: DOUS EVERITT, MSDUB 359-0069	17 CP/M USERS HEETS: 7:00PM SECOND THURSDAY 111 DEAN A. HCGEE, SOUTHWESTERN BELL OFFICE PR JIN WHITE 364-5289 VP BILL SKIPPER 946-8180 SE ELAINE MEAVER 495-4089 TR JOY MELTON 789-0280 EDITOR: BILL SKIPPER 946-8180
3 MID-OKLAHOMA REPEATOR, INC MEETS: 8:00PM FIRST TUESDAY, OKLAHOMA CIVIL DEFENSE WILL ROSERS BLDG., STATE CAPITOL PR DOC BOWERS, KXSM 942-7738 VP TIM REUSCHER, KASMUG 848-9910 SE MIKE SAMBUCO, KASTSD 672-9176 TR SID GERBER, MSKOZ 737-1050 EDITOR: MIKE SAMBUCO, KASTSD 672-9176	11 EDMOND AMATEUR RADIO SOCIETY MEETS: 000 MONTHS, 3RD SUMDAY, 2:00PM, EDMOND E08: DINNER, EVEN MONTHS, 3RD FRIDAY. °R BOS MCCOY, JR., N5BUJ 348-2032 VP LEE VAUGHN, KASWIS 348-2961 S/T AMBER THOMASON, KASWEK 478-4615 EDITOR: AMBER OR BOS	18 GREAT PLAINS ARC MEETS: 7:30PM FIRST TUESDAY WOODWARD PUBLIC WORKS BLDG. PR WINDLE HATCHETT, WASPLW (FT. SUPPLY)766-3561 VP LEWIS PATTERSON, WSKFK 256-2111 SE LOIS FORD, KASPYA 923-7683 TR FREIDA PATTERSON, MSEOX 256-2111 EDITOR: LOIS FORD, KASPYA 923-7683
4 OK CITY AUTOPATCH ASSN. MEETS: 7:30PM THIRD TUESDAY. OKLA CITY FIRE TRAINING CENTER. 800 N PORTLAND PR DON ROOKER, MOSM 721-2119 UP DON SAUNDERS, MD5ISS 721-0404 SE CHARLES HOFFERBER, NSFMU 340-4468 TR ART HERNANDEZ, KF5DK 354-9724 EDITOR: DON ROOKER, NOSM 721-2119	12 QUARTER CENTURY WA MEETS: QUARTERLY AT VARIOUS PLACES. NET: 3855 kHz SUNDAY AT 8:00 AM. CHM ROBERT RUNYON, AA00 373-1818 VCH GENE NAILEN, KSDLE 341-8289 S/T HOMARD BAKER, MSAS 721-5453 EDITOR: ROBERT RUNYON, AA00 373-1818	TRI-CITY AMATEUR RADIO CLUB MEETS: 1ST THURSDAY OF THE MONTH, PLACE: PR ROBERT DOLTON, KASRHU 379-2365 VP RON PHILLIPS, WBSUPU 382-1856 S/T J. B. BILLS, KESHU 379-3992 PO BOX 655, HOLDENVILLE OK 74848 EDITOR:
5 OKLAHOMA UNIVERSITY ARC MEETS: 7:30PM SECOND TUESDAY (SEP-MAY) 119 WILSON CENTER. 1334 S JENKINS PR LUKE MOAH, KASBAY 325-1775 VP JOHN WUSTENBERG, KESN 325-2382 SE PETER RICHESON, KASCOI 329-3217 TR GREG SMITH, KASLIN 366-1641 EDITOR: GREG SMITH, KASLIN 366-1641	13 KAY COUNTY ARC MEETS: 7:00PM THIRD THURSDAY PIONEER DRIVE-IN BANK, PONCA CITY OK PR PAUL DAVIS, NSHIC 765-2227 VP DAVE LAND, KDSFX 762-8616 8/T RICK LONG, KESXY 765-5487 EDITOR: RICK LONG, KESXY 765-5487	INTERNAL: EVERY WEDNESDAY, 221 YEH NW PR GENE SOUTH, WASIJA 223-8252 VP HOWARD ROBINSON, WBSFAJ 223-5726 SE JIM CHILCOAT, WSJCX 226-6816 TR JOHN MERLYN, WOSFZO 223-9543 EDITOR; JACK GANT, WSGN 223-2619
6 ALTUS ASSOCIATION MEETS: 7:30PM SECOND THURSDAY NORTH MAIN FIRE STATION (CD) ALTUS PR DNIGHT DENNIS, WB5KRH 482-2498 VP S/T MIKE SCHENKLE, W5VXU 482-1797 EDITOR: MIKE SCHENKLE, KB5XN 482-1797	14 CIMMARON ARS MEETS: 7:30 PM THIRD THURSDAY. NSFUO RADIO SHACK 827 S 13, FAIRVIEN PR STEVE SCHOONMAKER, NSFUP (405) 886-3274 VP BILL SIMPSON, NSHOK (405) 883-5523 SE NADIME PAINTON, NSFNH (405) 764-3599 TR BETTY DAY, KASRTW (405) 227-3462 EDITOR: JACK DAY, NNSZ (405) 227-3462	MEETS: 9:00AN SECOND SATURDAY, RED CROSS BLD6. NN 10 & HUDSON. DUES \$10.00 PER YEAR CH BOB PACE 376-3569 VC BOB HELMS 733-3429 S/T KAYE DERRYBERRY 681-0461 EDITOR: KAYE DERRYBERRY 681-0461
7 BICENTENNIAL (76ers) ARC MEETS: 7:00PM SECOND TUESDAY. 064E BLD6. SE 3RD & E. K. GAYLORD BLVD. PR DOMALD DUCK, AESN 691-4199 VP TED VANLANINGHAM, HD5JNT 262-1675 SE JERRY SPROUL, NSAUH 354-2061 TR TOM WEBB, WA9AFM 737-6716 EDITOR: JIM SEALS, KB5XM 381-2005	15 SOUTH CANADIAN ARS MEETS: 9:30AM SECOND SATURDAY, RED CROSS BLOG. MORTH OU CAMPUS, HORMAN 9R JEFF WYKE, KESEB 329-6762 VP FRANK RIZZO, W2OCM 321-2899 TR MONTE BATEMAN, WBSRZX 329-7485 SE LINDA BRANDT, N5DWN 321-5081 EDITOR: DAVIS EGLE, KDSIT 321-7570	
CENTRAL OKLA RADIO AMATEURS MEETS: 7:30PM FOURTH TUESDAY. RED CROSS BLD6. 10 & HUDSON OKLA CITY (BACK DOOR) PR DON SAUNDERS, MOSISS 751-0404 VP JIM BUSMELL, MSBEQ 236-0368 SE KATHY MHITED, MBSMD0 799-1457 TR SUSAN ST LAURENT, MSGVK 324-8180 COM/COM: CHARLES HOFFERBER, MSFMU 340-4468	I bet that you could sell an ad for the C&E. They are just 45c a square inch. Business cards are only \$30 a year. Try it.	CORA Collector & Emitter (USPS 116-150) is published monthly by CORA, INC, 1020 ARTHUR DR, HIDMEST CITY OK 73110. SECOND CLASS POSTAGE PAID AT OKLA CITY OK. SUBSCRIPTION: CORA member \$3 other \$7 yr POSTMASTER: Send Form 3579 to: CORA, 1020 ARTHUR DR, HIDMEST CITY DK 73110 EDITOR: Joe Harding, MASINF 737-1044 CIRCULATION: Bob Graham, MBSMSV, 677-8685



up to date on the new system.
The Severe WX Info./Traffic should be passed on 147.34+MHz by Net Liaisons and/or Radar stations and limited to them only!!! All direct spotter contacts should be made through the

local area Nets.

This is a proposed system to be tried out this season. Any corrections or additions to this contact WB5TMW Dick 405-685-2867 or B 405-278-2080 as soon as possible. Information needed:

- Frequency Net is held on.
- Area Net covers.
- Net Mgr. name, call, phone #
- 4. Net liaison " " " " "
- Back-up Net Liaison

The NWS has started the Thunderstorm Outlook, which is broad cast by NDAA WX Radio on various frequencies at 3:00 PM local time. This information is specifically directed toward the possible need of spotters.

The NWS Packet station is now on the air: WB5PWY. When active the products which will be available, to start with, are:

- 1. Oklahoma Thunderstorm Outlook
- "Warnings" Tornado, T-storm & Flash Flood.
- 3. Regional WX round up
- Reflectivity/Intensitivity
 Map from RADAP II Digital
 Radar Data.

NOTE: Overlays are are available send SASE 8.5 x 11 to me and I will send you one. Dick Baker 2400 S MacArthur Lot 203 OKC,OK 73128

The Packet Station will be on 145.01 MHz simplex. We will have two DigiPeaters on freq., one temp. downtown OKC & one on top of Arbuckle Mtn, both 250' & 100 watts. Most equip. has been borrowed, so if we are to keep these stations on the air. dona-

Tinker Radar

tions, equip. etc would be appreciated. Need 2 TNC's, 1 10 watt rig 100' feed-line, and a Omni 2M ant to replace the bro en one at NWS.

LOCATION	FREQUENCY	NET MANA		LIAISON		BK-UP L	IAISO
Ada	147.885 -						
Altus	146.79 +	WBSUMH D					
Anadarko	147.27 +	WDSETB W	inston	Variou	15	Variou	IS
Ardmore	146.97 -	WASIJA G	ene				
Atoka	145.44 -						
Calumet	146.61 -		-		أخا شامرة تسيحانين		
Chandler	147.36 +	WD5CIG R		WB5PNH	Toni		
Choctaw	147.09 +	AB5H F	rank				
Clayton	146.73 -						
Duncan	146.73 -		-				
Durant	146.94 -		-				
Edmond	147.135 +	N5DBM K	en S.	KAOCVK,	Bob T.	WB5SYT	John
Elk City	146.76 -	K5HXK J	im R.	WB5FBU	Gary		
Enid	145.29 -	WASUJF C	huck				
Eufaula	145.37 -						
Holdenville	146.79 -	KE5MT J	ohn	KA5HRU	Robert		
Hugo	146.61 -	WBSTTU R	on H.				
Lawton	146.91 -	K5BYF C	huck				
McAlester	145.37 -						
Mooreland	147.12 +						
Norman	147.06 +	KASEFJ K	en N.	WSMCJ	Jerry	W5MCN	Lelar
OKC	146.82 -	WB5CSM D	ennis	NSFM	Frank		
Ponca City	146.97 -	W5ZWM C	L -	N5ANV	Vernon		_
Seminole	147.795 -	WB5UPU R	(on	WA5ZAN		KASUKG	_
	146.91 -	WSTQZ H	erb			N5BEZ	
Stillwater	145.35 -	K5FVL D	an	WB5KQL	Club	Vario	15
Sulphur	147.15 +						
Woodward	146.73 -						
Ch 4 Radar		WD5DYI M	ark N.				
Ch 5 Radar							-
Ch 9 Radar							
Welston Rada	ar '						

If you know the information which is missing, please let me know as soon as possible. TNX WB5TMW Dick.

CENTRAL OKLAHOMA RADIO AMATEURS

proudly invite everyone to attend our bigger and better

HAM HOLIDAY

GRAND AWARD



TRANSCEIVER
LIST PRICE \$849.00

KENWOOD TS-940S ALL MODE TRANSCEIVER LIST PRICE \$1799.00

AUGUST

0000

1. 2.

LINCOLN PLAZA

DKLAHOMA CITY

INFORMATION & RULES FOR HAM

FACILITIES: HAM HOLIDAY/ARRL WEST GULF CONVENTION will be held in the Convention Center of Lincoln Plaza, 4445 N Lincoln Blvd, Oklahoma City OK. Commercial exhibits may be set up Friday night. Security has been arranged.

PROGRAMS: Something to interest everyone. There will be the usual displays, forces and seminars, from Beginning to Extra. There will be programs on DX, Antennas, Satellites, FM, Computers, Packet Radio and many others. Special groups will hold meetings: APPL, Night Dwls, Oklahoma Repeater Society, SMIRK, MARS and CORA to name a few. There will be many programs for ladies - they will be kept busy

FLEA MARKET: (Non Commercial Only). Every Pre-Registrant may rent ONE table for \$7.00 (To cover our cost). Additional tables are available on the Pre-Registration form. (Tables MAY be available at the door for \$10). The 30,000 sq ft area is indoors and Air Conditioned, with easy access doors for setting up. No displays or "tailgating" will be allowed in the parking lot. 7:00 Open to registrants for setup. Back doors. 9:00 Open to all REGISTERED people.

4:00 CLOSE. Start to clear tables.
5:00 Tables will be removed. People who want tables together should order them through one person. This includes clubs or individuals. Submit Name & Call Sign of persons sharing tables to

Make & Call Sign of persons sharing tables to MSFMU. Only exhibitors will be allowed prior to 9:00am. You may set up any time after 7:00. No flammable liquids, explosives or weapons allowed.

PARKING: There is plenty of FREE parking surrounding the convention site. Several eating places are nearby. Free parking for SELF CONTAINED RVs.

HOSPITALITY ROOM: It will be there, but, the Lincoln Plaza Staff will handle the coffee and eats.

AWARD POLICY: The winner and/or his ticket MUST be present to claim any award EXCEPT. the Pre-Registration award. You may sign your ticket for someone else to hold for you. Unclaimed Pre-Registrations will not be deposited for the main drawing - only for the Pre-Registration drawing.

TRAMSMITTER RESTRICTION: In order for any ticket holder to be eligible to win a AMATEUR TRANSMITTER he/she must hold a valid anateur license, or there

INCLUDE 50c BEFORE JULY 10.

aust be a licensed ham in the family.

PRE-REGISTRATION: \$10.00 with attached form. All envelopes must be postmarked not later than July 23, 1986 to be eligible for the Pre-Registration award. Packet with necessary tickets will be held at the door. To AVOID RESISTRATION LINE: Include 50c, before July 10, and registration(s) will be mailed to you between 7/16/86 and 7/23/86. No limiton on number of tickets you may purchase. No refunds. Winner need not be present, for this award only.

ADMISSION: \$10.00 Pre-Registered. \$12.00 at the door. Registration tickets must be worn in plain view for entry into ANY area, including exhibit halls, program areas, flea market, commercial exhibits except Smorgasboard, Early Bird Breakfast or Night Owl Net.

SMORGASBOARD & OCMA BREAKFAST: Smorgasboard will be held at the Heritage House, on Northwest Highway, west of Portland, at 7:00 pm Saturday." The GCWA Breakfast will be held at the Lincoln Plaza at 8:00 am Sunday.

LAST NAME	FIRST					
ADDRESS	CALL	-				
CITY	STATE	7	IP		€ \$10.00	\$10.00
(Additional Registrants. Same address. Eligible for	everyth	ing.)				
NAME	•	CALL -		++	@ \$10.00 @ \$10.00	
NAME		CALL			e \$10.00	
RESERVEFLEA MARKET TABLES (SATURDAY DNLY)					e \$7.00	
RESERVEADULT SMORGASBOARD TICKETS					0 \$8.00	
PESERVECHILDS SMORGASBOARD TICKETS (6 TO 12)				8 \$5.00	
RESERVEOCWA GREAKFAST TICKETS	CAT LIM	COLN P	LAZA)		8 \$7.25	
ARE YOU A C O R A MEMBER (YES) (NO)						
SEND PRE-REGISTRATION WITH CHECK/MONEY ORDER TO:			. 10	TAL AMOUNT	ENCLOSED	

HAM HOLIDAY P.O. BOX 60084 OKLA CITY OK 73146

CHECK THIS BOX () AND REGISTRATION(S) WILL BE MAILED TO YOU BETWEEN 7/16/86 AND 7/23/86.

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HELD V.E. TESTS ARE THIRD MONTH MONDAY OF EACH P.M. AT THE OKLAHOMA CROSS AT 10TH AND HUDSON. SESSIONS ARE CONDUCTED UNDER THE W5YI PROGRAM AND ARE SPONSORED BY C.O.R.A.

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IN THE MONTH OF AUGUST HAM EXAMS WILL BE HELD IN CONJUNCTION WITH HAM HOLIDAY. THE TIME, DATE, AND LOCATION WILL ANNOUNCED BE AS WE GET CLOSER TO THAT EVENT.

AT MARCH'S TEST SESSION HAD -SIX CANDIDATES WITH TWELVE THE BREAKDOWN WAS UPGRADES. FOLLOWS:

- 2 NEW NOVICES RODNEY BEAM AND GARY HARP.
- 1 TECH TO GENERAL AL (KASENV) FROM HARRAH.
- 2 GENERAL TO ADVANCED JERRY (N5IQA) AND JOE (WB5RAG).
- 1 ADVANCED TO EXTRA JIM BY THE WAY, JIM (K5L6W). ACED BOTH HIS THEORY AND CODE TESTS.

CONGRATULATIONS THE NEW TO UPGRADES.

WE WOULD LIKE TO REMIND YOU THAT THESE TEST SESSIONS ARE FOR TO LICENSE GRADES: FROM NOVICE CLASS. WALK-INS ARE EXTRA WHEN ATTENDING A TEST ACCEPTED. THE SESSION, PLEASE BRING FOLLOWING:

- A FILLED OUT FORM 610
- PEN OR PENCIL
- CALCULATOR (IF DESIRED)
- DRIVER'S LICENSE (OR OTHER SUITABLE I.D. FOR MINORS).
- ORIGINAL HAM LICENSE (YOU KEEP)
- XEROX OF HAM LICENSE (WE KEEP)

IF YOU DO NOT HAVE A FORM 610, ONE WILL BE PROVIDED. \$4.25 THIS FEE WILL BE CHARGED. AND ELEMENTS AS FEE COVERS AS MANY CONTINUE TO SUCCESSFULLY YOU PASS (YOU LOSE NOTHING BY AIMING FOR THE HIGHEST LICENSE AND IT GIVES YOU THE OPPORTUNITY TO SEE WHAT YOU MAY BE IN FOR AT FUTURE TESTS).

AVAILABLE NOVICE TESTS ARE ARE FREE OF CHARGE.

HOPE TO SEE YOU AT THE NEXT TEST SESSION.

month's article about last a 2 meter apmlifier I 'left' out two things: (1) The author was Dennis Stice WB5GDB, 691-4710. The T-282 is available from See his ad Ellard Foster.

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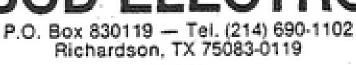
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- -FILE ZERO-

this There is a lot to cover lets get the month SO preliminary stuff out of the way up front.

TRAFFIC REPORT February, 1986

Sessions 4 162 Check-in Traffic 18

BIRTHDAYS FOR APRIL 1986 03 Hortense Baker ... YE-WSAS MERMIN 04 Emma Hawkins 04 Lucille Fauss YE-WSHW WSEJ 07 Ted Heithecker YE-W50Y 08 Adelle Peterson NG5G 10 Bill Myrick ABSJ 11 Frank Phillips 15 Ivan Miller WSHFU 16 Kenneth Cochran WSCXE 17 Fred Boardman : W5NL W5AS 26 Howard W. Baker 25 Doc Bowers KX5W WSPHD 29 Jon Cornelius. Happy Birthays Y'all !!

BOARD OF DIRECTORS REPORT

The Board of Directors of GCWA Chapter 63 met in Executive Session on March 5, 1986. What notice will apply to follows is a report to the membership on the proceedings of that meeting. There were some rather important matters undertaken by the Board. suggest each member carefully read the following discussion of the issues, and be prepared to provide input to the Board as you feel moved.

(1) The first item on the agenda was a discussion of instructions recently received GCWA International concerning a long standing requirement that members of each QCWA chapter organizations have current each membership in the International organization. To that end, each chapter has been provided a printout of the current chapter members who are not shown as current on the International rolls. As YOU know, in order to belong to QCWA, an amateur radio operator must provide suitable proof of to the International. On acceptance of the proof, and application for membership, the candidate is issued sequential membership by the That International. qualification then 15 acceptable evidence for affiliating with a local chapter. So first the then the chicken (Chapter air meetings. The on the air

The Chapter membership). Secretary, WSAS, has been instructed by the . International office to strike those names from the Chapter rolls who are. not also International members in good standing in accordance International with. the Constitution.

The Board went over the list. Based on information available efforts of to us, and the Howard to confirm the accuracy of the International office information, he was instructed to strike those names from the Chapter rolls. We regret the necessity. Howard has gone to extraordinary lengths to verify the information provided him by the International office. He has found several errors in their information, and worked closely with them to make sure no one is stricken from the current. records who is However, if you find your self "out", and you should be "in", please contact Howard and get it straightened out. The Board has instructed Howard not to out any more effort into the project. The Board also instructed Howard to send only one renewal notice per member. in the form of a post card, or a self addressed UNstamped envelope, at renewal time. No other effort will be made toward renewal. This renewal chapter members.

the On that same subject, Board instructed Howard to write the International office. and point out to them the expense to the chapter in processing International renewals made through Chapter. He was instructed to request permission to retain a portion of the dues paid through the Chapter to defray the expense. This is a common practice with many organizations including the ARRL.

Chapter dues now stand at and \$8.00 annually, International dues are \$12.00 annually. International dues can be paid through Howard along with the Chapter dues. The Board feels that if the Chapter collects International dues, then we should retain part of the money.

Before you get too upset and over this incensed issue, licensing at least 25 years ago please note the words in ARTICLE II - Membership: "Any person holding a valid amateur radio license and who is a a MEMBER IN GOOD STANDING of the Quarter Century Wireless Association, Inc. is eligible for membership (in the chapter)."

Exclusion from the Chapter egg roll does not mean exclusion (International membership), from the Sunday morning on the

roll call is not derived from the Chapter roll. To be called on the air for the QCWA Chapter 63 Sunday meeting you need only check in, and request your name be added. No cross checking Chapter or QCWA with International rolls is done. nor is it necessary to be in good standing, or even eligible for QCWA to participate in the Sunday meetings on the air.

(2) The Board set the date for the next quarterly meeting of the Chapter on April 20, 1986. Location: Dodson's Cafeteria 2150 S.W. 59th

(S.W. 59th & Penn)

Time: Any time after 12 Noon. Go through the serving line just like regular folks, then come to the meeting room to Dodsons will eat. coffee, etc. in the room.

The program will start around 1:PM depending on how much eating and eyeballing is going on. A super program on Packet Radio is on tap to be conducted by one of the real pioneers in the business. It will explained just as technical or non-technical as you want it to be. We think you will enjoy itt

(3) A discussion was held Chapter concerning participation in Ham Holiday 1986 functions. We have been requested to man the ARRL booth again this year. The Board elected to participate in this activity in 1986. Some lucky person will be selected to chair this activity. Name of the victim will be probably at the April meeting.

(4) The Board instructed Chapter CORA reps., KX5W, and WSAS, to volunteer the services of the Chapter in sponsoring the traditional QCWA breakfast on the Sunday of HH-86. Chapter involvement will conditioned on the event bearing the name QCWA, and the making of tickets available through regular HH-86 sales. and that attendance at the QCWA breakfast and purchase of a ticket not be dependent on HH-86 registration, nor on QCWA membership. The breakfast will be sponsored as an official QCWA event, but will be open to all regardless of license status, or time of licensing, or registration status in HH-86.

If CORA accepts our terms, then we have a very interesting program lined up to go along with the breakfast and eyeballs. More on ticket arrangements, prices, costs, etc., as details develop.

(5) The Board discussed, and then approved paying former Chairman, W5NL, for his out of pocket expenses incurred for failing to collect enough from the members to pay the taxes on the food served at our January meeting. Send in the bill Fred... but only for the tax!

(6) Finally, the Board took up what may. be the most important issue facing this Chapter in the forseeable future.

As many of you know. held our January meeting the Oklahoma Air Space Museum. During, and after that meeting preliminary discussions between officials of the Museum, and officers the Chapter, concerning a possible affilliation by this Chapter with the Museum. The issue is Many members complex. of this Chapter have long standing association with aviation. Many occupy places of some note in the field aviation electronics and secured have places in the history flight.

We now have an opportunity to establish a meaningful relationship with a prestegious organization, and contribute something of real and lasting value to the museum and the community.

Therefore, the Board has. directed that Vice Chairman. K5DLE, supervise a committee of his choosing to actively pursue QCWA involvement in the Space Museum. Among the issues the committee will explore with the Museum is the establishment of a working display of the history of communications as relates to aviation and and the amateur involvement in the / development Of. the technology. The committee will explore the possibility of establishing a "living" display around an operating amateur radio station. They will produce a recommended agreement with the museum, and discussion of what kind of resources might be available to support the effort. They will also explore the possibility of special licensing for a station in the museum. The possibilities are numerous, the directions are limitless, and the prospects of such a project are exciting.

As you know, several distinguished Oklahoma amateurs have made significant. contributions to scientific progress. The Board thinks that a project of this sort. while demanding a considerable committment of . time resources from the Chapter, would result in a ·lastino contribution which would well worth while, and certain to live long after all of us become silent keys.

It would also give us a permanent home for the Chapter, and a real significant community involvement ideally

suited to the peculiar talents posessed by the Chapter members.

A series of reports to the membership will be made on these pages, and at chapter meetings as the project evolves.

One problem the special committee will be working on is whether we should try to have our luncheon meetings at Museum, and if so, how we can make arrangements for food with minimum hassle, problems with head counts. etc. They will require considerable input, from the membership as they with these complex and knotty problems.

Give these matters some thought, and bring your ideas to the April 20th meeting.

the International As you know, office has sent all OCWA special members a. Hotline Report with a questionaire to get a sense of the membership on several items. Among the hottest ietm on the Hotline the issue of so called "Novice Enhancement". Ralph Rea. WSAA. is especially sensitive to the issue. and has provided following text for . vour consideration when you deal with this question:

NOVICE ENHANCEMENT

QCWA anticipates that the Federal Communications Commission will soon announce a proposal for Novice Enhancement based on a submission by the American Radio Relay League in June 1985.

GCWA has recently published a special HotLine Report to QCWA members soliciting comments and opinions regarding this proposal. Details on this proposal are available in the July 1985 issue of QST page 9 and these recommendations are summarized as follows:

1. More efficient beacon operation in the 28MHz band to permit the spectrum to be put to better use.

2.Expansion of the existing 28MHz band to permit CW and data communications, and CW and SSB at 28.3-28.5 MHz with a power limit of 200 watts. AM would not be permitted.

3. Novice phone privileges at 220 MHz, including operation through repeaters sponsored by higher class licenses.

4.Similar Novice privileges in the 1240MHz band with a power limit of 5W.

5. Elimination of the present rules which ; limit the power of higher class licensees in the Novice bands.

6.Expansion of Element 2 (Novice) written examination to include basic digital communications and voice operating techniques, with the

EDMOND AMATEUR RADIO SOCIETY

This month we have two article from members to start off ou "you be the editor for a month The Civil Defense information from Ken Stepp, N5DBM and the amateur radio class and cluschedule is from Amber & Bo Thomason, KA5VEK & KAOCVK. Yo can be the editor too if yo contact Amber, KA5VEK, or month N5BUJ. Thanks in advance for your help to your club.

I would like to remind you t contact Harold Wells, WA5ZKX, j you can help with the callir committee. Turnout at clu functions is always improve when the reminder calls ar made. Currently the following are helping:

KASWHI KASWAV K2JDV N5GFG K5SKA KF5E KASWKQ KASYPG KASWIS

Mary Wells
Tommie Guinn
John Lewis
George Mastena
(wild) Bill DeMand
Tom Cassady
Beverly Estlinbaum
Karen McCoy (my XYL!)
Lee Vaughn

(CONTINUED NEXT PAGE)

provision that present Novic Class licensees would not b required to re-take th examination.

During a recent "ON-THE-AIR GCWA meeting several opinion were given. As one would expect opinions were quite varie running the alpha-omega gamu of full concurrence with the proposal to total disapproval and many inbetween opinions.

QCWA members are bein requested to complete questionnaire and forward it to the QCWA headquarters station their individual opinions for possible action.

My personal reaction is that the program might offer additional inducement to newcomers in our hobby but do not favor renewal of license at the Novice level. WSAA

Diverging or concurring views are solicited, and will be published as space allows. (.-ed)

Be sure and plan to attend the April meeting... We have much to discuss... We need your

input for guidance.

Vy 73 - Rob AAOD

If you didn't make the March business meeting you missed out: I think that the turnout was 34 or 37 people. Dennis Stepp, KA5WJW, won the free dinner door prize -- second month in a row: wonder if Ken? Several guests were at the meeting and one of them won a free one year membership to the ARRL. I would like to welcome the new members to our organization, some whom joined our group at the meeting. I don't have the roster handy so I will not bother with names. Mark Northcutt, WD5DYI, and

Mark Northcutt, WD5DV1, and Dennis Orcutt, WB5ISN, were available to answer questions about the ACC RC-850 rpt controller; they presented quite a lot information about what the RC-850 could do for us. EARS is currently working on raising funds for such a project.

John Thomason, WB5SYT, brought the club up-to-date on our club's ARRL Special Service Club Application status. I wont say more here because John will fill you in later. If you are planning on joining the ARRL or don't already belong please contact John, the club can benefit if you submit our club number. John can also supply you with the ARRL ham radio equipment insurance program applications.

Charles Hofferber, N5FMU, advised the club on this year's SOONER GAMES; if field day isn't your pleasure or if you can break-away from field day then please contact Charles to help.

DE N5BUJ Bob McCoy Jr. (pres)

EARS HAM CLASSES

We have just completed our successful winter class. Congratulations to the 9 novices, 12 technicians, and 5 general class hams that earned their licenses.

There are several reasons for our success with the classes. Each session on Sunday afternoons begins and ends with 30 minutes of code practice. The rest of the time is used for theory instruction. From the first lecture to the last, certain guidelines are followed.

- EARS members provide the lectures.
- 2. Each lecturer hands out a

- set of notes to the class.

 3. Audio-visual materials are encouraged.
- No war stories are allowed.

Our facilities allow the group to be divided into small code classes. To pass the novice code test, the student must be able to copy a 5 minute QSO and answer a minimum of 7 questions correctly.

Many of our students are uneasy about taking written tests. To ease their anxiety, several practice written tests are given.

On Tuesday, we held a class for make-up and covering areas requiring special emphasis. The lecturer from the previous Sunday is invited. These classes are very informal and kept to groups of 5. These become a special time for fellowship and developing friendships. In fact, attendance was better on the Tuesday night class than the Sunday regular class.

Students are provided charts of frequencies and types of emissions to learn. Using these charts, students are able to answer any questions related to frequencies or emissions. From memory the students write the chart on the blank sheet of paper given to the students by the VE with their test. It is then used to answer these questions on the test.

The most exciting part of the class is the weekly pep talk given by Bob Thomason, KAOCVK. His encouragement allows each student to excel and do their very best. The main objective is to convince the students that they can succeed and getting discouraged is only temporary. Other students before them went through the same frustrations and survived.

The most important aspect of the EARS class, is the friendship and personal relationships that form. Our members that go through the class become friends, as well as, fellow hams. This creates within the community a true sense of responsibility and service that strengthens our programs in EARS. Thanks to these 14 EARS members for their total support

and participation in making this class a success:

Ken Stepp, N5DBM; Bill Wright, KC5GN; John Thomason, WB5SYT; Don Kelly, KA5UOS; Stephen Stepp, KA5WJW; Robert Thomason, N5IJX; David Patillo, KA5VYF; Lee Vaughn, KA5WIS; Tommie Guinn, KA5WAV; Frank Tassone, KA5WGS; Clarence Dollmeyer, KB5RR; Lee Ward, N5HIR; Phil Wolfenbarger, N5HIP; and A.C. Adams, KA5WGV. Our next class is scheduled to start Sept. 28,1986. Contact any EARS member for information.

EARS Calendar

April:

5 - Crafts Sale
 - Siren Test

18 - Mock Emergency at Deer Creek School

18 - Picnic at E.C. Hafer Park

19 - Search and Rescue Exercise at Tishomingo.

May:

3 - Garage Sale - Siren Test 16 - Business Meeting at Francis Tuttle Vo-Tech

Tour of facilities before meeting. Visitors are always welcome. If anyone is interested in joining EARS, please contact me.

73 Amber Thomason, KA5VEK

EARS RESPONDS TO SEARCH FOR MISSING CHILD..... At approximately 8:00 pm on March 3, 1986 EARS Emergency Coordinator received a call from Edmond Civil Defense requesting assistance in the search for a lost child. A 6 year old girl had been reported missing for approximately 4 hours . calling committee immediately activated and within minutes EARS had volunteers rolling toward the Post in established Command southeast Edmond . As suddenly as the initial request for help had been issued, so was the notification that the girl had been found, safe and sound. It was a good test of our readiness, and proved once again that EARS is always available to assist in emergency situations. Thanks to each of you who responded so quickly when the call for help went out. DE MSPET

(CONTINUED PAGE 12)



President Sam Murr called the meeting to order at 9:00 AM on March 8, 1986. 120 members and guests attended.

Old Business

- Martin Schiel briefly discussed his recent trip to the RAINBOWfest.
- Archie Washington suggested that we contact other COCO clubs in Oklahoma and Texas to try to arrange a RAINBOWfest.
- 3. Rob Runyon touched off what turned out to be a heated discussion concerning the possibilty of staging a Color Computer convention in OKC without the sanction or assistance of Falsoft, Inc. Most attendees were in favor of hosting a convention, but they realized what an overwhelming logistical feat it would be. Bob Helms moved that we form a committee to investigate the feasibility of holding a Color Computer convention in OKC. The following people volunteered to serve on the committee: Bob Pace, Martin Schiel, Daniel Jamet, Dan Kolakowski, Tom Mangham, Homer Fox, Teresa Sims, Merrill Scott, Dale Goad, Archie Washington, Hollis Holcomb, Judy Holcomb, and James Daggs. The committee's first meeting was held on Sunday, March 9, at Bob Pace's house.
- 4. There was a motion to advertise the upcoming COCO Swap meet in May. Because the city has strict rules concerning swap meets, we must avoid publicizing the event too widely. We will limit advertising to bulletin boards and word of mouth.
- 5. Bob Pace compiled a list of people who will try to answer your questions concerning the Color Computer. Please call between 6PM and 10PM Monday thru Friday and all day Saturday and Sunday, except where otherwise noted.

-			
	Sam	Murr	324-6443
		Seals	381-2005
		e Moore	329-0275
		s Samples	745-2872
	Haro	ld Todd	685-3685
		Mangham	677-5291
		Holland	745-3392
		Cochran	732-8029
		Pace	376-3569
	Holl	is Holcomb	387-9267
		(not Sat o	
	Jame	s Daggs	733-5414
		(8AM - 2PM	any day)

New Business

1. Jack Cochran said that 80 Raylon MICRO will no longer produce the "FILES Hot CoCo disks. We will get a program.

refund for the unused portion of our subscription.

 Rob Runyon. that purveyor of used disks, donated \$150 to the club. Thank you, sir.

3. Tom Mangham beseeched the attendees either to submit programs for the monthly swap disk or at least to request what programs they'd like to see on the swap disk. When you submit programs, don't forget to put a write-protect tab on the disk so that Tom's copy program doesn't write over your file.

4. Resolution: COCO, Inc. will sponsor satellite chapters in rural areas for people (especially kids) who can't make it to the meetings. Volunteers will assist the chapters however they can. The members of the chapters will also be members of COCO. Inc.

5. This month let's extend a welcome to new members Robert Sanders, Alan Kaiser, John Landis, and James Nunn.

Hardware Problems

- 1. Hollis Holcombe demonstrated a device called a Mellowphone. Plug it into a teleand it intercepts the phone ringer. So, instead of the typically abrasive telephone ring, the Mellowphone will play one of up to 64 songs programmed into an EPROM. kit costs \$43 and is easy to put together. There is an ad for the device in a recent issue of MODERN ELECTRONICS.
- 2. Bob Pace recommended that anyone interested in the \$70 16K Standard Color Computer should buy one post haste. To upgrade the device to 64K costs \$15 for the chips. Extended Basic costs \$40 for the ROM and the installation, which requires some soldering.
- 3. For those who are somewhat more advanced, Bob briefly spoke about upgrading to 256K and beyond. The 256K upgrade requires one set of four 41256 chips, which costs \$30. If you want 512K, then buy two sets.
- 4. Here's a tip for those of you with the Call Waiting feature on your telephones. Before you begin a modem session, dial "*70" if you have a tone phone or dial "1170" if you have a rotary (pulse) phone. This will temporarily disable Call Waiting. The trouble is, I don't know how to restore Call Waiting when you're ready.

Software Problems

i. OM errors have plagued Raylon Rogers each time he has tried to run the Blackjack program from a recent RAINBOW on disk. Bob Helms suggested that Raylon try a "PCLEAR 1" or a "FILES 1" before loading the program.

2. Someone was having difficulty transferring the CCW line of educational software from tape to disk. There's a good reason for that. The programmoccupy a portion of memory is which the DOS resides. Without rewriting some of the machine language programs, they simply won't run in a disk environment.

3. Rob Runyon was having two problems with Deskmate, an integrated software package which runs under OS9. He wanted to print out at 9600 baud, but the software would only allow 600 or 1200 baud. One attendee knew of a way to modify the printer driver within Deskmate to provide 9600 baud print capability. His second problem was not knowing how to write to drive 1 when necessary. Someone else suggested that Rob put a write-protect tab on the disk in drive . O and change his default drive to D1.

4. Bill Pool was having trouble with CoCo Calligrapher. Old English wasn't printing well after the first line. Subsequent lines weren't aligned properly. He may have solved his own problem, however, when he suggested entering the graphics mode before running the program.

5. Bob Pace was curious about the differences between BASIC 1.2 and the new BASIC 1.3. A knowledgeable source assured Bob that the differences were minimal.

Doorprize Winners

Ruth Roberts - OS9 PASCAL Jeanette Roberts - hole puncher

Randy Donahue - Flip-N-File Lewis Samples - RAINBOW on Disk

Byron Hutto - printer paper Sherri Whittington - poster Wayne Little - Flight Simulator

Bill Gilliland - stapler Jim Miller - another stapler Steve Jackson - OS9 David Burkleo - Chromasette Jeff Chappell - Color File Perry McWhorter - extension utlet

I still haven't won a thing.

Program

March was word processor month at the Red Cross. Bob Helms spoke on Telewriter 64, Sam Murr discussed Elite Word, and Bob Pace talked about VIP Writer.

Bob Helms presented a concise, but thorough, guide to Telewriter. He made very good use of visual aids, while briefly covering all menu screens, commands, and embedded codes.

Sam Murr felt that Elite Word was very user friendly -good for the infrequent user who doesn't need the fancy bells and whistles which Telewriter and VIP Writer have to offer.

A significant drawback to Elite Word is the fact that the BASIC loader only allows two-byte codes for changing font size, etc., while some printers (such as the Gemini 10X) require three-byte codes. Fortunately, you can modify the loader program to handle codes of up to four bytes.

Another disadvantage is the primitive 32-column display when entering text. The "<CLEAR><V>" command will display the text exactly as it will print. The default is 66, but you can change it to whatever you like.

Setting tabs is also a clumsy and ambiguous proposition.
First, enter the Command Mode.
Next, type in the tab stops and
hit <ENTER>. Then, the screen
goes blank. When this happens
you may panic and want to repeat
the process, but the blank
screen actually indicates that
the process succeeded.

Elite Word does have some strong points, however. You can print multiple copies of your text, and you can permanently change some of the defaults from a menu screen, rather than adding pokes to the BASIC loader. An interesting feature is the variable text marker. This allows you first to extract data from a file and then to modify certain areas in the printed text with that extracted data.

Bob Pace pointed out that VIP Writer is part of the integrated Desktop package. VIP Writer has three modes: command, text, and disk I/O.

Bob discussed many of the commands. Some of the most interesting were the Whoops command, the ?, and the wide range of deletes. The Whoops command allows you to undo the last command put in. So, if you deleted a line accidentally, the Whoops command will restore it. The ?, or help, command gives pertinent information on any VIP command. The delete commands allow you to delete a letter, a word, a line (or fragment thereof), or a group of lines.

Like Elite Word VIP Writer has some drawbacks, too. Having to move the cursor to the beginning of the text in order to print out the entire file is a nuisance. Having to hit <CLEAR> <P><P> to print the text on the printer seems redundant. Also, VIP Writer's author didn't plan his mnemonic commands too well. They're not easy to remember.

On the plus side VIP Writer permits files to be 41,000 bytes long! That's a full 16K more than Telewriter allows. Also, you can define up to 20 embedded commands, which is handy for the more esoteric essays you might want to write.

Basically, all three word processors discussed allow you do the same things: manipulate and print text. Any of the three will provide the average user with ample word processing capacity. I've had no previous dealings with Elite Word, but the other two are powerful and very sophisticated programs.

With the advent of Telepatch, which corrects many of
its most evident flaws, Telewriter has become an even
stronger word processor. It has
always been very user friendly
(just ask CONSUMER REPORTS).
The documentation is very well
written and easy to follow.
Within a few hours you'll be
quite a competent user.

VIP Writer's documentation is not as easy to follow, the commands are more nebulous, and if you don't use it regularly. you may forget how to use it. Nevertheless, VIP Writer is very powerfui. As part integrated package, it offers some features that Telewriter doesn't. What it all boils down to is whichever word processor that you learn first probably be your favorite and will probably suit your needs sufficiently.

EDITOR'S NOTES by Martin Schiel, 670-6891

This month's CoCo column will be shorter than in the past few months. For one reason, I just learned that I must limit the column to two pages. For another reason, I was away for two weeks on business and attending the RAINBOWfest. It's this last topic to which I'll devote this month's column.

I flew out to San Francisco on Thursday, February 13, without a hitch. I spent the day eating and wandering through Chinatown and the downtown area. I heard from several sources that the worst storm in the past five years was heading our way.

That night it hit, slowly at first, and then with increasing intensity. On Friday morning the local weather reports didn't look good at all. way 101, the major north-south artery heading down into the peninsula (and Palo Alto), had 18 inches of water standing on Needless to say, the C.H.I.P.s boys closed it down. I wasn't sure if I'd be able to make it to Palo Alto for opening night of the RAINBOWfest.

Luck was with me and, despite incessant rain all day long, an alternate route, Highway 280, reopened. I arrived at the convention shortly after it convened and spied the long line at the registration table.

Rather than wait in a line

for 30 minutes, I sought out Judy Brashear, the RAINBOWfest coordinator. When I handed her our petition, she certainly wasn't overwhelmed. In fact, she suggested that we submit a new petition with more than 80 signatures on it. Since Larry Falk, President of Falsoft, Inc. and publisher of RAINBOW, personally reads all his correspondence, Judy felt that he might look more favorably upon a petition with more signatures.

Judy, however, was receptive to the idea of having a fest in OKC. She mentioned that Falsoft was always looking for new sites for the fests. She had even been studying the hotel situation in OKC, possibly with the idea of holding a RAINBOWfest here. Judy and her staff study the cities within a 150 mile radius to predict whether a potential candidate can arough people to make the event profitable. If Falsoft would expand the radius to 200 miles. that would include the Dallas-Fort Worth metroplex.

I mentioned that if OKC were out of the running they might seriously consider holding another convention in Ft. Worth. Judy winced at that idea, saying that Mr. Falk considered the last one held there to be a disaster, and he didn't want to repeat a disaster. I countered that the first Fort Worth fest was held years ago, when there weren't very many CoCo owners. I mentioned that several people from the OKC area attended that particular RAINBOWfest, and they thoroughly enjoyed it, especially the tour of the Tandy plant.

Judy agreed with me and said they might reconsider Fort Worth after all. She mentioned that several cities in the East (Atlanta, for one) were interested in hosting a RAINBOWfest. But, because Falsoft sponsors only three fests each year and because Princeton was so successful last year, it's unlikely that another eastern city will host a convention for a while.

I was very disappointed with the Friday night turnout. I was equally disappointed and amazed at the small bourse 20 to 25 dealers were area. crammed into a tiny room. Add in the 150 to 200 attendees and the room was overflowing with a teeming mass of humanity. It called to mind Macy's bargain basement: people elbowing each other, jockeying for position. and simply trying to pass by one another. Actually, everyone behaved well considering the cramped quarters. (When we put on our fest, we must insure that the room is large enough).

The people that I met were friendly. A few dealers showed some effects of jet lag, but the RAINBOW staff didn't seem to be

suffering any ill effects. The DELPHI representative was very friendly and eager to talk (more about him later).

I passed some time with two representatives from pleasant the Redwood City California Computer Federation (CCF). They currently operate a bulletin board even though they've sust recently organized. The Redwood City group has only held one meeting, which 28 attended. They are planning to join forces with the L.A. chapter (60 members) the Sacramento chapter (membership unknown), so their collective size should grow to a respectable level. The three chapters are planning to teleconference their meetings, an interesting idea.

I chatted for a while with Fred, the L.A. CCF president. I still can't get over how the second largest city in the USA can only boast a membership of 60. I couldn't help bragging a bit about the size of our club. We must have one of the largest CoCo clans in the country.

After picking up my free T-shirt and poster, I spoke with some of the dealers. The J & M rep and I talked about hard disk controllers, but the discussion was 'way over my head. The bottom line is that J & M will set you up with a controller, power supply, cables, etc., for \$350, but you must supply the hard disk. I did get to see the internals of their latest floppy disk controller, with slots for two ROMs.

Speaking of disk controllers, DISTO, a Canadian concern, offers a \$99.95 disk controller with gold contacts and 4 ROM slots, one of which is occupied by their own RS-1.0-compatible DOS, called CDOS. CDOS offers a dozen additional commands, some of which appear to be moderately useful. They also market a monitor driver compatible with their own disk interface and one other that I don't recall. driver offers an 80x24 or 32x16 display. You can select either display with a simple CDOS command. I guess my next project is to get a display like the big boys have.

Another upgrade candidate is the 256K variety. One outfit was offering a 256K upgrade kit for \$129.95 -- no great bargain. (Just ask Tom Mangham.)

I was interested in keyboards, and one dealer offered a
new CoCo II keyboard for \$29.95.
I tried it out, but the touch
didn't impress me, so I passed
on it. It seemed to have a full
stroke, but it wasn't as springy
as I'd like.

I was hoping Spectrum Projects would bring an HJL keyboard, so I could "test drive" it, but they let me down. I did make my only purchase from them, however. I bought TELEPATCH for \$19.95 (again, no bargain). But, since I use TELEWRITER 90% of the time when I'm on my Color Computer, I decided that \$20 was a small price to pay to enhance that outstanding word processor.

The dealers, as a whole, weren't discounting too much. Several offered 10% off if you bought at least two pieces of software. The lady from Sugar Software offered the best obvious bargains: 10% off 1, 15% off 2, and 20% off 3 or more items. Unfortunately, her software didn't intrigue me. She demonstrated her CoCo Calligrapher, but it was too costly.

There may have been some bargains at the fest, but you had to be a savvy shopper to spot them. At the Falsoft table I noticed the RAINBOW Guide to OS9 was \$17, which is \$3 under the price quoted in RAINBOW. Larry Falk himself was at the table pushing the entire RAINBOW Bookshelf series of books and firmware, as well as quite a selection of magazines.

I spotted a table loaded with ROMpaks for \$5 apiece, but I wasn't interested. Most of the offerings were only games, which are of no use to me in the first place. And, in the second place, I'm not about to unplug my disk controller all the time because it might conceivably damage the contacts somehow. You never can tell.

One man had a table at which he demonstrated a program he wrote for the CoCo. His program, called The Gypsy, read palms and predicted people's futures. He deserved a prize for the most unusual presentation.

The Delphi rep, who is also the Delphi Tandy SIG sysop, discoursed at great length about his service, which may not be such a bad deal after all. \$7.20 an hour, whether 300, 1200, or 2400 baud, you can access Delphi. And, as it turns out, there isn't an access surcharge for using Tymnet or Uninet. Delphi picks up the (Which, translated, means tab. you pay for it, but indirectly, so it doesn't hurt as much.) If you plan to use the service for more than four hours per month. you can sign up for a special plan which costs only \$6 per hour, regardless of baud rate. That's a heckuva deal.

Delphi, it seems, offers most of the same features found on CompuServe, e.g., on-line encyclopedias, the Official Airlines Guide, etc., etc. Let's not forget the SIGs, either. RAINBOW maintains the CoCo SIG, which features many downloadable programs. All you need is a terminal program which can emulate the XMODEM or KERMIT protocols. (MABEL won't work.) I'll probably check into Delphi and

report to you in several months.

I didn't spend too much time at the fest on Friday, but it was more than ample to see all the merchandise and gab with the dealers. If I had it to do over, I would talk to Mr. Falk about the proposed OKC fest. And, in retrospect, I'd have liked to have discussed a few more topics with Judy Brashear.

The seminars took place on Saturday and Sunday. The topics included OS9, BASICO9, assembly language, data management, telecommunications, business computing on the CoCo, and internals. The seminar lineup was very comprehensive. Still, I can't help but feel that with the talent we have here locally, we could produce some very professional and entertaining seminars also.

(Editor's note: Since I wrote this article there have been some new developments. Falsoft wrote me to say that they had declined our offer to host a RAINBOWfest because they had already chosen three sites for the 1987 calendar year. At the March COCO meeting we formed a committee to investigate the feasibility of putting on a convention of our own. I'll report on the findings of the committee in the next issue of the C & E.)

MORE EARS

WEATHER SPOTTERS TRAINED Don Devore with the National Service provided Weather spotters training in March for EARS members . Turnout was excellent; in fact, the Edmond City Council Chamber was packed wall to wall with interested volunteers . A second, more advanced training class is being You will organized . individually contacted about the time and date whenever it has been determined. FE NOTES

SEARCH AND RESCUE.... On April 19 EARS will travel to the Tishomingo area training exercise with the Civil Air Patrol, Edmond Civil Defense authorities, and 2 Explorer Posts. The exercise will begin at approximately 9:00 am on Saturday, and will involve the search and rescue of a missing person from a wilderness area. The area is a great vacation spot, so members are encouraged to bring their families for all types of fun and entertainment. Why not make it a weekend vacation for the whole family while we (Hams) better prepare ourselves to handle emergency situations. DE NSOBM



Minutes of March Meeting

...will appear in the May C&E. The advanced paste up date comes before the VHF club holds it's monthly meeting. Maybe next month I will be able to slip something in a blank spot just before it goes to the printer, but I doubt it. Mean time, if you are just burning to know what goes on at the meetings, come join us! Joe, K5JB, Sec y

Where Has All the Time Gone?

Oh Me! I just got through doing one of these! I am starting this on March 8 after discovering that it is my last opportunity before paste-up. I just did a column the last time I was home and it seems like just yesterday. At least that time I had prepared some stuff while on the road. I often take my Radio Shack Model-100 with me when a column is going to be due and time will be short. This one "snuck up on me"!

I have always made notes of things I would like to write about during the month and in the last weekend before paste-up, typed them out. The coming of computerized word processors has made that a lot easier because note fragments are easily expanded into full blown prose. When I got the Model-100, I immediately put it to work for me in various airports and hotel rooms. My only concern was to spend several hours on an article and have the airport x-ray zap it. It hasn't happened yet but it still concerns me. I used the tape recorder once to record what it had on its sandy little mind but that was more equipment to lug around and I wasn't all that confident in it anyway. The last couple of month's have involved visits to Washington D.C. and while there I have the facilities of Hoss, WASZAI, to help me out. He has an Apple computer set up for modem communications and it is a simple matter to dump the Model-100's stuff to a \$2.00 floppy disk and breathe easy.

Only this month, I didn't have the foresight to take the little bugger along, so here we go from scratch. Joe, K5JB

What Computers Are Good For

Computing, of course! I was reading in the March ham radio magazine an article by Bob Lombardi, WB4EHS, about my projects like that wind up on the narrow band RF filter design. He presented the key equations for capacitively coupled Chebychev and Butterworth filters and a Commodore Basic program to allow "cutting and trying" with the computer before getting to the soldering iron phase. I thought his approach was good and you might

want to check it out if you have a Commodore computer (or any other computer and some programming translation skills).

I have used all kinds of computing machinery since the HP-35 became available and, for the engineer or technician, they all free the mind up considerably so it can think instead of become bogged down in the tedious mechanics of problem solving.

My most unorthodox engineering computing tool is the computerized spreadsheet. There are a lot of them around, Multiplan, Visicalc, Supercalc, Lotus 123, etc. They were designed for the business applications spreadsheets usually fulfill but they also have a fairly rich set of transcendental functions (SIN, COS, LOG, etc.) and work quite nicely on engineering calculations. The nice feature about using a spreadsheet is that it easily makes a table of numbers, such as you would find in antenna network calculations where you would like to know SWR over a band of frequencies, or in the case of the filter problem, attenuation over a range of frequencies. Sometimes it is much more effective to calculate a bunch of numbers to visualize a trend than use calculus to find maxima, minima, area under the curve, etc. In fact, I think it was calculus and differential equations that drove me to computers for problem solving!

I have considered putting some of my more useful spreadsheet formulae in the C&E but there are two basic problems with doing so. They are never in a final, polished form, and there is the Babel of languages. There is not a single common spreadsheet dialect. The methods could be outlined, but if you could use that information, you would have already done it and wouldn't need any help from me because it only involves putting an equation in a cell and copying it all over the place.

Not all is ideal with complex problems on a spreadsheet. I once tried an intermed problem and thought the computer had lain down and died, it took so long to do just a few million calculations! Even a SWR table using the old "divide the sum of the square roots by their differences" trick will bog a spread sheet down if you do it for 500 KHz intervals across the 75M band.

One appealing aspect of computer modeling of electronic circuits is that it is almost as good as getting out the soldering iron and a bunch of parts as far as satisfying the creative urge. Particularly, when most of shelf anyway after my curiosity is satisfied.

ICOM Mobile antennas

Last weekend, I froze my buns off helping Hoss, WA5ZAI, in Alexanderia, VA, install an HF mobile antenna. I

told him before we started that it took all weekend to tune mine the last time I did it . He didn't take me seriously until about the middle of Sunday afternoon.

Seriously, it wasn't the tuning that took so long. It was the running to the nearest store that had an assortment of DIN plugs, drilling holes, stringing cables, making the bumper mount fit, etc. The tuning only took about four or five hours!

Hoss thought he had been running the remotely tuned Swan antenna long enough and decided to get a new one from Icom to replace it. The new one would have the added feature that as bands were changed at the radio, the antenna would follow suit. It sure was a lot of trouble to cut the number of switches down by one. (I suppose the old timers thought the same thing when folks wired antenna change over relays into their home stations!)

There are several models of the Icom HF mobile antenna tuner, and I am not familiar with them all. They appear to differ in the number of bands they cover and whether they are automatic or not. I presume by "automatic" they mean that they tune for minimum reflected power automatically, rather than simply bandswitching automatically. I am not sure which model Hoss got. I am guessing that it is the AH-1 which does auto band switching on five bands, 75 through 10 meters. It gets a DC voltage from the transceiver that signals what band is in use. A rotary switch does a bunch of clicking until it has found the right place.

The tuner design is simply an "L" network with a shunt capacitor on the transceiver side and a series coil on the antenna side. The capacitors and coil taps are selected by the rotary switch. The tuner mounts in the trunk and is fed power and control signals by a cable running from the accessory socket in the Icom transceiver. The antenna is a simple whip fed by wire running through a high voltage bushing in the trunk floor to the insulated bumper mount.

All the hardware is high quality. The external parts are stainless steel. We had an unfortunate accident as we were fitting the bumper mount. One of the nuts decided to seize on the bolt that extended from the strap to the bottom bumper hook and no amount of coaxing would make it come free without destroying the threads on the bolt. The only solution would have been to cut the nut off and clean up the threads on the bolt with a die (metric). The design of the strap prevented removing the bolt so it could be replaced with a fresh one. Since he didn't have suitable tools for removing the nut, Hoss and I adapted parts from his old bumper mount to do the job.

Another interesting observation was the thickness of a Volvo bumper. It was a full 1/4 inch thick and it took

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quite a bit of modification of the mount to make even begin to fit the thing. I bet the Japanese never thought anyone would have a bumper like that one! It looked like it would fit a bumper of 1/8 inch thickness without modification.

Once it was installed we went to work. The network has compression trimmer capacitors for tuning the thing but the coil was also provided with multiple lugs for moving the taps, if necessary. And it was. In fact, we had to make several of the connections way to heck and gone from where the taps were located. A variable that is extremely difficult to control in such a design is the capacitance between the antenna, its high voltage feedline and the automobile structure. It takes only a small amount of capacitance change in this part of the circuit to make an extremely large change in circuit resonance. In order to tell if we needed more or less inductance, all I had to do was put my hand (or Hoss' hand) near the high voltage feedline and watch to see if the reflected power went up or down.

Hoss borrowed a noise bridge for the weekend but we decided for expediency just to QRM the bands as we were tuning. We installed a Bird wattmeter right next to the tuning unit and started out tuning with 10-20 watts until we could see no reflected power. Then all we had to do is run a smoke test at full power to see if we had resonated the whole antenna circuit, or just the tuner!

The most useful tool, other than the watt meter was a piece of nylon string tied to the antenna. Remember two facts: 1. An antenna that is too long is inductive (or too short, capacitive), and 2. Adding shunt capacitance to an antenna is same as adding series inductance. If bending the antenna towards the car lowers its reflected power, it is too short. It is capacitive and therefore needs added series inductance. (It may seem like a paradox that adding capacitance to an already capacitive antenna will straighten it out, but the added capacitance is in shunt while its inherent capacitance is series. Remember that when you are reading about magic broad band schemes for hf antennas.)

In Hoss' antenna situation, the antenna always had too much inductance when we started and we moved taps to reduce like to start the car and get rid of turns on the coil. In some of the final adjustments, the tap movements were as small as 1/4 inch, and in the case of 40 Meters, the coil tap lead was bent into various configurations to get the circuit to resonate where he wanted it. Once we had determined about where the coil taps needed to be, we had to make some alterations to the capacitors. Since in this circuit the capacitors are located at a low impedance point they don't have to be high voltage. At 100 Watts, with an SWR of 1.0 (remote possibility) they would only see about 70 Volts RMS. Hoss' junkbox yielded a good selection supply capable of oodles of current 14 COLLECTOR & EMITTER + APRIL 1986

for what we needed. For example, if we found that a 170 pF compression trimmer capacitor was plumb loose as we approached a tuned condition, we just replaced the fixed silver mica with one about 200 pF less in value. Once we got into tuning range, a minor adjustment of the coil

tap put us right on the money.

It was getting late and we didn't complete the last phase of the process. Since bandwidth of the antenna was expected to be quite narrow. I planned on moving the car to a large parking lot where we would be in the clear. Hoss could get in the trunk with a flashlight and a tuning tool. I could sit up front and operate the rig (and the engine, and the heater) while he put the final touch on it. He scowled when I suggested that we run down the beltway about 65 MPH while he adjusted it. After all, it is my experience that on 75 meters, the resonant frequency raises about 25 KHz from standstill to road speed. If this sounds like hair splitting, remember that with a good, low loss mobile antenna, the bandwidth between the 2:1 SWR points is only about 40 KHz.

It remains to be seen how the antenna will perform. My intuition tells me that it will not be as effective as an antenna that has the coil mounted out in the clear, away from the car body, and with a significant amount of current flowing on the radiating element. It is a much neater design with the coil out of sight and the coil is certainly less subject to weather and physical damagebut I am afraid that it will be flaky acting at road speeds with the high impedances involved in feeding it and the proximity of the radiator to the car body itself. More about that next month...Joe, K5JB

Multi-Purpose Power Supply

During the final phases of the antenna tuning experience described above, another useful amateur radio accessory came into use. During the protracted radio operation on a cold, and perhaps marginally capable auto battery, things started acting strange with the radio and we diagnosed it as a dead battery. Hoss ran into the house and returned with a one Amp trickle charger. Hmm, sez I, this could take all night and we have an antenna to finish tuning. (Never mind that he would me.) I asked what the heck was wrong with hooking up his 12 Volt radio power supply to the battery and giving it a quick charge.

A power supply designed to operate an HF radio is capable of at least 15 Amps, a respectable charge current for a car battery. There are some important precautions though. One wouldn't want to burn the thing up and further add to the stress at the moment!

In Hoss' case, we were is great shape. He produced an Astron adjustable power

and some battery jumper cables likewise capable of the current. Since the current could be limited I wasn't concerned about harming the supply by over current but there is a real possibility of damage if the supply was hooked to a voltage source greater than the supply voltage, causing current to flow the wrong way. Most power supplys have a design feature to prevent damage in this case but unless you are certain, be sure to hook up and disconnect in the following order:

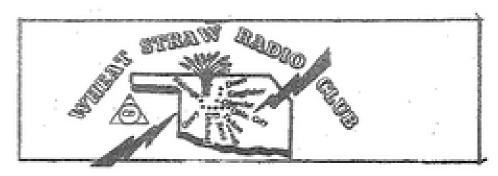
- Turn on the supply and set the voltage higher than the battery voltage.
- Connect the supply to the battery and supervise the charge current so as to not release the smoke contained therein.
- Disconnect the supply from the battery before either turning off the supply, or starting the car engine.

That is all there is to it. If you have a home brew supply, make sure you have included protection for the regulator circuit by adding a diode from the output to the input of the regulator with the cathode attached to the input. This will prevent, in case of power failure or inattention, current flowing from the battery backwards into delicate parts of the regulator. It happens with walkie talkie batteries as well as car batteries. Joe,K5JB

Packet Racket

I have not been around to observe the local happenings but Stan, WB5UIY, has been having a lot of fun with his bulletin board program. I did the conversion work for his Apple //c on a hard disk equipped Apple //e. That made it simple to try various cosmetic things and save a lot of versions on the disk without worrying about housekeeping until I was finished. After a version was fairly satisfactory for his //c I made some additional modifications to make it and its utilities run on the Apple II+, the older model, that I keep in the Hamshack for utility purposes. I also lugged the hard disk in there so it could run on the thing, speeding its operation extensively.

It has run all weekend with only minor problems and I regret that I will not be around to play with it some more. I put a bunch of stuff on it including three ARRL Gateways (approx. 16K each) and the latest ARRL filing for partial reconsideration on the automatic operation thing (approx 37K long). So far, no one has taken the bait and read all of these files, which take a considerable time to transmit, even at 1200 bits per second. It takes a little over four minutes to send a 16K file (assuming there are no retrys and no digipeaters involved). There was a couple of readings of the first Gateway I put on (one person read it twice!) and I guess the long transmit time made them uneasy! Oh well, it is only Amateur radio! Joe, K5JB



In Okarche OK on the 9th day of February, 22 brave souls battled the cold wind and a few R flurries to meet for the Wheatstraw ARC. However, preceeding the meeting on Saturday evening 14 Wheatstraw representatives congregated at the Methodist Church in Calumet to witness the exchange of wedding vows between WA5JHB "Marvelous Mary" and Imogene to make sure the was securely fastened. "Congratulations and Best Wishes" to both of you. It was a lovely wedding and we enjoyed being with you. (Especially the men - they all agreed that Marvin deserved to suffer too! DIRTY RATS!! All of them!!) Well back to basics.....

Following the minutes and treasurers report a thank you note was read from the Oklahoma Teaching Hospital, a Packet Radio message was sent by WD5GLD, and an announcement of the National Severe Weather Service meeting on the 18th @ 800 N Portland.

The pros and cons of the 15kh vs 20kh were discussed again. It seems spacing on 20kh would make more channels and would eleminate off frequency repeaters and some frequency interference;
But...would also make some radios obsolete, and if I understand correctly would also eleminate some of our members from reaching our repeater, so I'm not too sure the pros = the cons. At any rate it is still an open subject.

CORA and Ham Holiday were discussed. Namely the banquet moved from Lincoln Plaza to Heritage House creating a big plus for the cost factor. Wheatstraw could use 3 more representatives for CORA but the floor became extremely quiet when volunteers were being solicited, and equally as quiet when the call for an activities chairman was given an opportunity to speak up.

An ARRL report was given, including a list of benefits along with forms to be filled out for membership. A motion for our club to become affiliated with ARRL was made by WD5JNT, Ted, seconded by K5LLX, and passed with an unanimous vote.

K5GDC, Dean, thanked the club for the donation to medical research, and we were all pleased to hear the report taht James, K5GBH, is home and much improved. Hang in there, James. We're all pulling for you.

The March meeting was at Kingfisher, and K5LLX was in charge

University of Oklahoma's main Kaufman Hall is on the campus. North-East corner of the Dale Hall parking lot. The nearest entrance is at the corner of and Elm Streets, one block North of Elm and Lindsey If you need help finding the place, call KD5IT on 147.660/147.060 after about 6 pm on the nite of the exam. ins OK but preregistration preferred. To preregister, mail a completed FCC 610 form with a copy of your current license and the \$4.00 fee to Sam Barrett, PO Box 18, Norman, OK 73070. Walkins must bring a copy of their current license and the \$4.00 Call Sam, WASRPP, at 321fee. for more infomation.

NEW MEMBERS AND CALLS

A new club member is Barney Kahoe. N5IUB, who earned his novice and tech tickets as a result of the SCARS Novice/Tech held last fall. class Cotts, KASYWS, who also finished that same class, recently passed the Tech exam in Moore and is awaiting her new call. Her OM Warren received his extra call and is now WG5N. Justin Radcliffe, KA5WIJ, one of the two teen agers who completed the SCARS class last Spring upgraded to Tech recently.

Heathkit HR-1680 solid state 5 band receiver, assembled and in excellent condition. \$125 Call Monte, WB5RZX, at 329-7485.

THERE WILL BE ANOTHER AMATEUR TEST SESSION, NOVICE THRU EXTRA

DATE Janua RY 8, 19
TIME 10:00 am
PLACE KF Industries (Plant
Lunch Room), 1500 SE 89th. One
mile East of SE 89th and I-35.

PRE-REGISTRATIONS NOT REQUIRED (WALK-INS ONLY)

PHONE CONTACT 794-7398 Hal, NX5I after 5:30. 672-5564 George, NX5E after 5:30. 631-1533 Orlie or Hal 8:00 am to 5:00 pm.

The fee has been advanced to the tune of \$4.25 for all test except NOVICE.

of net control. Check-ins have been good. Keep up the good work.

Motion was made to adjourn, and adjourn we did. Not just for refreshments but more like a banquet fit for Kings. Thank you Okarche ladies and Bertha. Guests present were KA5VDN, Gene, from Weatherford, Pam Benoist and Leroy, Jan, Kris and Karey Kuen from Okarche. Come again.

73 N5EMD

the control operator is not present at the control point of the amateur station.

"(d) This waiver will remain in effect until the Commission takes final action on the petitions for reconsideration filed in Docket No. 85-105.

The Waiver goes on to say: "Control operators of amateur stations capable of monitoring AX.25 packet transmissions must be alert to the increased dependency upon them for monitoring during the period of this We call upon them to waiver. immediately make known to the responsible control operator of a station retransmitting communications under automatic of the control misuse any so that the control station take prompt can operator corrective action."

According to FCC officials, formal Commission action on the pending Petitions for Reconsideration is not scheduled until late summer.

FCC CITES SWAP AND SHOP NET PARTICIPANTS

A number of amateurs in the Southeastern states have been cited by a Florida FCC monitoring station for participating in so-called "Swap and Shop" nets, which, in view of the monitoring station, vilated 97.112. This section states that "an amateur station shall not be used....for communication for material compensation."

The Commission interprets this section as meaning that "amateur may use their stations from time to time to discuss the availability of a piece of Amateur Radio equipment, but that such activity would be limited to an occasional nature. It's best not to discuss price on the air. Instead, swap phone numbers and finish the dickering off the (The FCC Rule Book, page air." 6-10) ARRL discussions with the FCC indicate that the FCC has not changed this interpretation, and that the citations were issued by an individual monitoring officer who interpreted the rule differently.

1986 PRO HAMFEST

The PRO Hamfest will be held Saturday, May 17th at Lincoln Center, Lincoln Park, Pittsburg KS from 10:00am until 8:00pm.

The activities will include door-prize drawings, a bunny hunt, the Grand Prize raffle drawing, flea market, meal, etc. Flea market tables free. Admission \$2.00 per head. This pays for your fried chicken. Upgrade exams at various times of the day. Talk in on 34/94.

GREAT PLAINS A.R.C.

M5HGH Repeater 146, 13/73

Our March 4th meeting of the Great Plains Amateur Radio Club met as usual in the Woodward Public Building with Works twenty people present. Two hams were voted on and accepted to become members of the club. Allen gentlemen were These Reid, Penrice, KA5VYS and Bill WD5DFH. Welcome aboard.

QSO AND FRYING TIME AGAIN

Ross, WB5MZZ, is working on a new club and area amateur roster and is also getting the flyers ready for the Hamfest and Eyeball QSO so theu can start being circulated. It looks like we're going to have a great weekend this year, so make plans to attend! Events kick off Saturday April 12th with examination registration to begin at 2:00 pm and VE Testing to commence at 3:30 pm.

"Oh, it's frying time again ", as 6:30 that evening will be the time for the good ole hamburger "Hope the cooks show up fry. again this year!" On Sunday April 13th, the red carpet rolls out at 9:00 am for the Eyeball QSO. We'll have several dealers present again this year and plans are being finalized for ladies and children's programs. As is customary, a fantastic covered dish dinner will start at 1:00 pm with entertainment to follow. Talk-in frequencies will be on 146.13/73 and 147.72/12. Admission for all of this will be \$2.00. Not too shabby, eh?? MORE MEETING NEWS

Back to the meeting. Bill. KD5JR, gave a short radar report (really he did). Lots of interesting and new things are coming up for this season. Don't forget to make plans to attend the Service's National weather spotter training to be held in several cities in this area. They will be offered April 7th at Guymon, April 8th at Buffalo, and April 9th at Woodward. It's getting to be that time of the year again.

HOW'S THE GEAR ? Speaking of getting to be that time again - How long has it been since you checked out that old mobile 2 meter radio system and vehicle that you use for storm spotting? Is the antenna still in one piece or has little Susie used it to make several clothes hangers for her doll's clothes. Have you replaced the coax that disappeared from the mobile unit and magically reappeared on that December How Sunday afternoon project? about the fuses and wires? Is there any gasoline left in the How long since the tires tank?

and oil were checked? When the call goes out for spotters there probably won't be adequate time to"Get it all together immediately" without just a little While there's prior planning. still time before the major portion of this storm season is upon us, why not take a few minutes to check everything out and make sure all of your spotting gear is ready for the call. Knowing that you've done this will probably help KD5JR to get a better nights sleep before he starts staying up all night watching the radar screen.

One of the newest calls in our club is that of WG5Z belonging to a very tickled Gerald Bowman. We've known Gerald for a long time and it seems that he manages to come up with at least one new call per year. Will this one be the last? Only the Phantom knows for sure! Seriously, we're very proud of Gerald and his new Extra Class Call. Gerald says it stands for We've Got 5 Zucchinis

What do you think? REMEMBER THIS

In last month's article we presented a short history of the Northwest Oklahoma Service Net through the courtesy of Lee Rogers, W5HGH. Lee graciously loaned us several issues of the Great Plains Ham News for use in these columns. The following is taken from the November 1971 issue:

"Serving as the 1971 officers Doyle Houston, were WA5YQQ, President: WN5DGZ, Doug Maupin, Vice-President; WA5YQP, Tyler Todd, Secretary-Treasurer; and WN5DGU, Duane Culp, Activities In this issue it was Manager. noted that five members of the Great Plains ARC had rigs. They were WA5YQR, W5FKF, W5GH, WB5DGT, all 2 meters and WA5OUV both 2 and 80 meters. This newsletter also mentioned that five amateur prospects were currently taking the "Novice Radio" course at Woodward High School. The course was sponsored under the school's adult education program. Those taking the course were Marylee Dunnihoo, of Shattuck; wife of K5JJC Donnie Eiker and David White, both Woodward students; Tyrone and Tommy Todd, sons of WA5YQP, the instructor" for this time and for several years thereafter, GPARC meetings held in the U.S. Army Reserve Building in Woodward.

More of our history will be offered from time to time. For now though, we hope to see you at Mooreland for the Testing, Eyeball QSO, Swapfest and other events.

73, Lois, KA5PYA

ED SED: "Smile; it makes people wonder what you are up to."
ED SED: "Accountants never die, they just lose their balance."

The South Canadian Amateur Radio Society

KD5IT

The club held its monthly meeting on Saturday, March 8, at the Red Cross. The business items discussed at the meeting were:

- 1. Repeater antenna site
- 2. Field day plans
- 3. Novice/tech class
- 4. VE Exams

ANTENNA SITE

The SCARS 2 meter repeater main antenna should be back at the normal site by the time you read this. Plans are to have the 147.660 input and the 147.060 output at the main site several miles east of Norman. The alternate input on 146.460 will be resumed at the in-town site at the same time.

FIELD DAY 1986

Jeff, KE5EB, brought up the question of the club's participation in Field Day. group decided to do it again this year and Louis, KDSWA, volunteered to coordinate the The group settled on effort. Reaves park in Norman as the FD site. A Novice transmitter will also be set up to give the club novices a chance to work the test. Louis will be looking for volunteers to work phone and CW, to help with the publicity and the equipment setups, and to make the social arrangements.

NOVICE CLASS

The novice/technician class met for the first time this spring on Monday nite, March 3. About 40 people attended the first class. Twenty-eight of those are unlicensed and working for the The group Novice ticket. includes six youngsters, five YLs, and a couple of former novice ticket holders getting back into the hobby. Ages range from 9 to 70. The other dozen folks are novice or tech ticket holders who are participating in the 13 wpm code class. If you want to upgrade it's not too late to join this group. classes are held at the Norman Red Cross, 1205 Halley Drive, on the OU North campus every Monday nite at 7:30 pm.

VE EXAMS

The next VE exam to be conducted by WASRPP, NSMS, KUSB, and WSOU has been scheduled for Thursday, May 1. The exam will start at 6:30 pm and will be held in room 229 Kaufman Hall on the (CONTINUED NEXT PAGE) RADIO REFLECTIONS

By Charles Maupin, W5HQM, ACRC My earliest recollection of contact with radio was about 1926 when a man named Wallace brought a battery-powered set to our house for trial. I think he ran a radio school in the city. The set was a 201A type with three tuning knobs, a horn-type loudspeaker and ran on a storage battery for filaments, two 45 volt "B" batteries for plate supply and a 4,5-volt "C" battery for grid bias. Being only 6 years old, this event didn't impress me much.

As broadcast band radio caught on, Oklahoma City acquired four stations: WKY (NBC), KFJF (CBS), owned by stations two churches* KGFB (Keep Going For God) at the old Faith Tabernacle at 4th and Penn and KFXR (Key Excellent Radio) on the For Avenue Exchange of grounds Baptist Church in Packingtown. Dad was a lawyer and didn't have money to invest in a home radio. I guess he hadn't been much impressed by Wallace's battery set. But mother and I began to think that it would be nice to We even made it a have one. matter of prayer and in time our prayers were answered! We had Christian friends named Montgomery who had a prospering furniture store in Earlsboro and one day we asked us if we would like to have a radio? Would we ever! So they presented us with a nice new Crosley. It was a beautiful console with three 224R screen-grid RF stages, 227 audio driver, push-pull 245's output and a 280 rectifier AC It had an powered supply. electrodynamic speaker with a beautiful tone. It also had a built-in electrical phonograph pickup and turntable under a lift lid atop the console. That radio afforded us many enjoyable hours of news and entertainment! When school was out in afternoon, we kids would rush home to listen to our favorite programs such as "Little Orphan Annie", "The Secret Three", "Skippy", "Jack Armstrong, The All American Boy" and other exciting 15-minute serials. Each night at 8pm the whole family would gather around to listen and laugh at the antics of "Amos /N Andy". Also the high drama on "Lux Radio Theatre" and other programs. My dad taught a bible class over KFXR on Sunday.

during this period I developed an interest in crystal sets. My first one was a Philmore witha Galena crystal, a "cat-whisker" to select the most sensitive spot and a flat coil with sliding contact to select stations. The selectivity was not too hot and I began to read of wave traps, serial and parallel to improve selictivity. I got into this and built some sets that

did a lot with the lowly crystal. I would lie in bed at night listening to the big dance bands from all over the country such as Jan Garber "The Idol Of The Air Lanes", Clyde Lucas and his "California Dons", Art Kassel and his "Castles In The Air". Guy Lombardo and his "Royal Canadians" and many more. I was even able to hear one local station through an inverted cone electromagnetic speaker I had near the bed powered only by my crystal set. I began reading magazines such as Short Wave Craft which had construction projects that intrigued me. As we were in the Great Depression, I had little money for such things.

As our family were now members of Exchange Ave Baptist Church, I made the acquaintance Horace J. Marrinan, W5JO and W5AYO, who was chief engineer of KFXR. The station gear had been locally constructed from plans designed by Frank Herrman and was a sight: to behold! All circuits were enclosed in wire chages and you could see every tube and part. All circuits were continuously by metered wealth of Weston and Jewell meters. Horace agreed to teach radio to me on Saturday mornings using some work sheets from a course he had correspondence completed from a Chicago school. By his advice I built a two-tube short wave receiver with plug in coils using a 230 regenerative detector and a 230 audio amplifier. It used a "hedgehog" audio transformer, flashlight for the filaments and a Bosch "B-Eliminator" with Raytheon "BH" cold cathode gas rectifier for the "B" supply. I began to listen to radio amateur broadcasts and the ham radio bug bit I began studying code, theory and FCC rules regulations to try for a ham license. At the time I was a student at Central High School. the only school in town that offered courses in electricity and radio. These were taught by Paul Bell. I remember Bell predicting that someday the heated filament vaccum tubes would be replaced by a new system using devices not requiring hot filaments, perhaps a magnetic process. His prediction came true not by magnetic means but by semiconductors.

I had to go up for my ham license three times before I could pass the code test! The first time it was 10 WPM and I didn't quite make it. The second time I could do 10 WPM but the code requirement had been raised to 13 WPM so I missed it again! Well, the third time I made it and was licensed with the call W5HQM "Highly Qualified Modulation" which I have held continu-

since December 1938. ously Though the code had stopped me twice, CW has become my favorite mode since. I didn't have a transmitter after I first received my license but Bob Ashby, W5HXL, a felow student at Central High let me use a rig he had built for my first contact. Later I built a "Tritet" oscillator for my first homebuilt rig using a circuit from the ARRL Radio Amateur's Handbook using a 6L6 beam tube. It worked great and I could get 25 watts out of it. My first factory receiver was a National FBXA I bought from Ed Oldfield who was radio salesman amateur Southern Sales, our city store at that time. I had to lay it away and pay it out 25 cents a week, such were my finances in those lean days! Most of my early contacts were in the 40 meter band and as I recall, it was quite "flakey" back then. Must have been on the low side of the sun spot cycle. Later on I bougt a National preselector stage from Moody Alexander to add on to the FBXA.

About this time I joined the Oklahoma National Guard supplement my meager income, at a dollar a drill. I started in the Headquarters company of the 179th Infantry as a radioman. They had a field transmitter that loked like a small piano (and seemed to weigh as much on hikes!). It had a hand crank generator for power that would really give you a workout while someone was keying the rig. would lug that thing around on my back during marches. Later I transferred to the Headquarters Battery of the 90th Field Artillery brigade in the radio unit under a friend Eugene Harris, W5AEF, whom I had known previously as a transmitter engineer at KFXR. He was now my sergeant and a fine guy to work with. Gene later worked as wirephoto operator for the Oklahoma Publishing Co.

I graduated from Central High in 1939 and the following fall entered Oklahoma City University transferring to Central State College the following spring to work out a B. S. in chemistry and physics. When World War II came along, I left college and enrolled in the Oklahoma City Trade School to train as a radio mechanic for Tinker Field. We had a great little group under B. F. Coates, carrying on classes at the old King Transfer and Storage building at 9th and Broadway and at Central High School. The training was for 3 months but when that was up. Tinker wasn't ready for us so our class went to the National guard Armory on 23rd Street near the capotol for another 3 months of training. During this time I CONTINUED NEXT PAGE

OKLAHOMA REPEATER SOCIETY, INC. Minutes of winter 1986 meeting.

The meeting was held in Stillwater at the Municipal building. It was hosted by the Stillwater The call Amateur Radio Club. to order was made at about 1:00 pm by the President of the Board Directors, Dan Schroeder. The minutes of the last meeting were read and approved. The tresurers report stated that we had \$312.00 left in the bank after postage bills were paid.

Bob Morgan made the Technical committee report. It concerned a packet radio conference held in Muskogee on January 18. About 70 people participated. They disacussed plans for increasing the packet activity in the state. Bob noted that there was a pretty good system of packet communication thru digipeaters from Cushing to Tulsa, Ft. Gibson, Ft. Sith and Hugo. He gave a summary of how packet communications work.

In the area of Legislative Dibrell Charles activities. brought up the FCC proposal to allow control of repeaters on any frequency.

Frequency coordinator, Schroeder, presented the results of the 100 questionaires mailed to repeater groups concerning the 15 vs. 20 kHz channel shar-About 1/2, or 50 groups responded. 27 desired 20 kHz and 23 wanted 15 kHz. That figures to about 55% for 20 kHz and 45% for 15 kHz. Before a vote of the society can be taken, we must make sure that there is room for all 15 and 30 kHz repeaters to move to 20 kHz channels without causing interference to adjacent states or systems. The next step in the decision making process is to be contacting the adjacent frequency coordinators and present them with a list of where the present repeaters would move if a 20 kHz decision The first list of was made. "new" frequenciesd include the following points: 1) 49 repeaters would change frequency., 43 would chnage 10 kHz or less, 3) 6 present systems would gain enough spacing to have coordinated status, 4) new systems in the eastern 1/2 of the state would be coordi-(space found). It was nated hoped that the comments of the adjacent coordinators would be back within 30 days. After that, a vote could be taken.

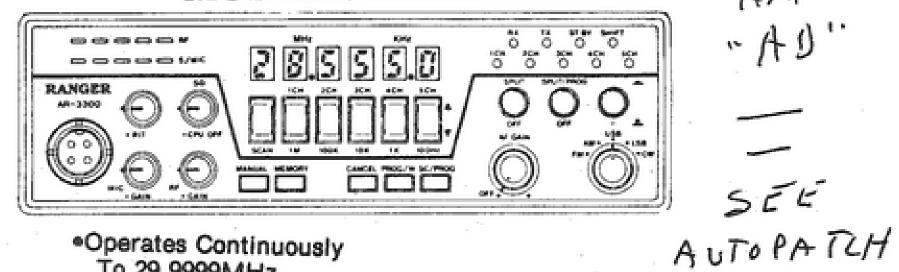
Two guests from Kansas spoke about the Mid-America Coordinating Council, Inc. (MACC). They were John Pederson, N5DKQ from Wichita South Kansas Frequency Wendel 1 coordinator), and Wilson, WOTQ, president of the Kansas Amateur Repeater Council. Their goal is to develop a body of repeater users with the same bandplan (15 kHz) and therefore have a good deal of clout with

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CLEAR CHANNEL

HIGH FREQUENCY ALL-MODE MOBILE/BASE



 Operates Continuously To 29.9999MHz

- Operates on 13.61VDC
- Frequency selection is entered through either the momentary switches located below the frequency display or by automatic scanning.
- Frequency Resolution is selectable in 100 Hz, 1000 Hz, 10,000 Hz or 100,000 Hz steps.
- Up to five preset frequencies may be stored in the computer's memory.
- Programmable for split transceiving.
- Modes: AM, FM, LSB, USB, & CW

RADIO REFLECTIONS, CONTINUED.

bought a Nilson & Hornung "Radio Operating Questions & Answers" and studied for 2nd class radioand radiotelegraph telephone commercial licenses. I also studied for upgrading to class A amateur radio license. I took the three exams the same day and passed them all. I later found that any government license is

the ARRL and the FCC. Presently, they have 6 states. There indivfequency coordinators idual really work "for" MACC. Wendell, a member of the board of directors of MACC, invited the ORSI to become a member of MACC. This would of course require that we decide for 15 upright spacing.

There was a good discussion of the reasons for and against 20 kHz spacing. It was pointed out that some older Icom radios are not easily modified . Also, many low priced repeater receivers would have difficulty coping with 15 kHz spacing.

The next meeting was scheduled for Ham Holiday in OKC, Meeting adjourned at 3:30 pm.

Respectfully submitted, Schroeder, acting secretary.

NOTE: The ORSI membership will vote by mailed ballot no sooner than April 1, 1986 on the 15 vs 20 kHz spacing question. D.S.

(Ed. BLACK type, 3.2 inches wide will do it.)

like "money in the bank"! After two years at Tinker I had the opportunity to go to sea as shipboard "sparks" in the U. Merchant Marine because of the radiotelegraph license. I saw much of the world serving on three cargo ships: My Cape Trafalgar, SS James Roy KWIU: Wells, ANFN and My Roband Hitch, ANLK.

THIS

NOT.

AM

" AD"

ARTICLE

After the war, I went back to college, finished the B. S. degree and taught 6 years of college chemistry at Northern Okla-Tonkawa while homa College, working on a master's degree at OSU in Stillwater. This was completed in 1952. That year I took FCC exams for First Class Radiotelephone and Radiotelegraph licenses with ship radar endorsement, again passing them I taught another year of all. college chemistry at Conners State College in Warner and in late 1953 joined the staff of KWTV, Channel 9, as a charter transmitter engineer. I served in that capacity for four years, then went to work at the FAA Academy as an electronics engineer instructor. I served 23 years in this capacity, retiring in July 1979. Since my retirement I have enjoyed ham radio better than ever before. recently got into RTTY and serve as a QSL bureau helper. I upgraded to Amateur Extra in 1981.

MAYDAY FOR MORSE CODE

On a windswept cliff high above the Atlantic Ocean are the sad ruins of a once-great technological triumph. It was on this Cape Cod cliff in 1903 that Guglielmo Marconi stunned the world with the first two-way transatlantic radio transmission. Using Morse code, Marconi instantly shrank vast ocean distances; no longer would ships at sea risk being isolated for But today, months at a time. Marconi's achievment is marked only by a brass plaque. Like the relentless sea, advanced technology is eroding the importance Morse code for marine communications.

Just a few miles south of the historic site, William Farris and his staff of "Brass Pounders" keep the Morse code legacy alive, tapping out messages from a small building constructed in 1914 by the Marconi Wireless Telegraph Company of America. Out of the dozens that once existed, wcc Chatham is one of only 11 American commercial radio stations still in use.

Morse code was created by Samuel F. B. Morse and assistant Alfred Vail in 1835 for overland telegraph. Though today the marine system conveys little beyond mundane arrival times and supply requests, it was once the only receiver of SOS signals. David Sarnoff. who was to become the chairman of RCA, was the first to receive the fateful "S.S.Titanic into an iceberg, sinking fast." But because of its slow speed. its indirect style of communication, and its resultant high cost per word, Morse code is slowly being replaced; its volume is decreasing at the rate of 10 percent a year. The death knell will finally ring in the 1990s when the International Maritime Organization requires all ships to have one of

three digital selective calling system; VHF (Very High Frequency SITOR (Simplex Telex Over Radio, or a satellite based system.

Although Morse code has been used successfully for over 80 years, it is, as Lee Forsgren of the American Institute of Merchant Shipping says, "Not old technology, this is ancient technology." The weather, radio used, location, and the time of day all effect the intelligibility of a message and the distance it can travel. There are "dead" spaces where a signal misses its proposed destination, resulting in the loss of entire messages.

Digital selective calling, however, uses computers to automatically correct this problem. Its primary benefit is that it directs each message to a particular ship or port, much like a telephone. A Morse trans-

From New Zealand Ass'n of Radios BREAK IN

As promised last month here is a clarification of the extract from the Australia Radio Communications Act of 1983:

"5. (1) Without prejudice to its effects apart from this sub-section, the Act also has, by force of this sub-section, the effect it would have if the reference in the definition of "radio communications" in sub-section 3 (1) to things and things were a reference to parts of things and the same or other parts of the same things."

So now you know!!! By ZL1HV

mission, on the other hand, is not targeted but depends on someone listening to the right frequency. In replacing Morse, the IMO hopes to make shipping a safer, more economical way to transport cargo and people.

Neverthelass there a variety of reasons that many foreign ships prefer to stay with Morse code. For one thing, it easily translates into other languages and does not require an English speaking operator. A larger factor is its lower initial Installing a new SITAR system, for instance, can cost \$5000 to \$10,000, a hefty outlay for some ships. However, SITAR usage costs are much lower than the 55 to 65 cents per word of Morse code. With about 45 words transmitted per \$3 minute (10 characters or less to the word), SITOR can save money in the long run.

Satellite technology has even higher installation costs, but it too is growing in popularity. Says Farris, "It's becoming much easier to direct a signal to a satellite 22,000 miles in the sky," He adds, "Many new ships, especially those destined to carry expensive cargo, are not being built with Morse in mind." For example, a tanker selling its oil on the constantly changing spot market needs immediate information on prices at many The \$20,000 or more needed for a satellite system is negligible if the ship can receive the highest possible price for its oil.

Still, the mood is upbeat in Chatham, and William Farris is not about to send out invitations to Morse code's wake. "We've got some people who have been working here for 20 years who say that even back when they started, people told them their days were numbered."

Reprinted by permission from the March issue of Science 86. Copyright 1986. The American Association for the Advancement of Science. (VIA Lee Lash, W5VZY9 EVERYONE TALKS FUNNY - - EXCEPT THOU AND ME !

(The following is from ZS6TJ Calling but it can be applied everywhere, ED.)

"ZS6DAH-DAH-DAH and the klompie, this is . . " that was the exchange I was hearing on 2 meters. I found that this was also the type of exchange being used on HF by some ZS stations and I conjured up in my mind the JA station replying "KROMPIE?", how do you spell that?" Unseen red faces behind the ether waves.

· I wonder how many South Africanisms creep into our QSOs unwittingly. Fair enough, many a conversation I've heard on a Sunday where the local would say "Thanks for the contact, but I've got to run now and get the braai going." Kuala Lumpur braai doesn't mean a sausage, but a barbecue would surely salivate the glands in Tuscon ... and if you said "Ciao" to the Chinese, they'd think it was a smelly business. I guess the main thing is that when we communicate with peoples of other countries, we'd have to first make sense, secondly, not sound offensive.

In trying to make sense, I suppose if one were to read between the lines and get the full meaning that would be OK. but if we heard Flo of 'Alice' fame say "Kiss my grits", in the privacy of our lounges, we'd rock with laughter. When we hear the same expression on 2 meters we'd frown and the poor fellow saying that would be castigated - no, not castrated - uttering profamities is not a capital offence ... I gather, however, that grits is breakfast cereal on ol' Alabammy and Carolinny and saying "kiss my Kiester" would be really hitting below the belt.

On the other hand we don't expect everybody to be a fundi on languages .. fundi .. ? Now there's a word that's maligned. I believe the origins stem from aficianado — but not being Spaniards we've coined it to suit — like the HL would hope that you have a "preasant and comfortable fright to the Far East".

After all this, I hope you tell the other fella that your antenna is working out G. B. (bakgat, what!?) and that you've enjoyed a "Lacquer" QSO!!

Happy DX-ing, fellas. Sam, ZS6BRZ

I don't like centipedes, but I feel sorry for one with athletes foot.

Statistics show that the best time to buy anything was about 40 yaers ago.

The best safety device in a car is a rear-view mirror with a patrol car in view.

HAR HAR	PENING	2 KELEV TO CHOD OFGITAIL LOW OF EGG					
SUN	MON	TUE	WED	THU	FRI _	SAT	
APRIL	:	M O R I Great Plains		Aeronautical			
		76'ers	2	ALTUS AREA	4	C O C O SCARS	
6	7	8 DIDAR	9	JO CP/M	11	12 ARDMORE	
MooreLAND	EDMOND	AUTOPATCH		KAY County	EARS	VHF Club	
13 EVEBALL	14	15	16	/7 CIMARRON	18	19	
	RED CROSS BLDG.	CORA			COLLECTOR - EMITTEE		
20	21 6:00 PM	22	23	24	25	26	
The managing ed responsibility contained				MAY / SCARS			
27		29	30	VE			

AUTOPATCH CRAZY ANTENNA CONTEST TUESDAY, APRIL 15, 1986 7:30 PM MUTUAL FEDERAL, 3501 N. MACARTHUR HAVE YOU EVER SAT THERE ON

THE JOB OR IN THE CLASSROOM OR IN THE LIVING ROOM AND WISHED YOU COULD HIT YOUR FAVORITE REPEATER BUT YOUR BOSS OR TEACHER OR MATE WOULDN'T ALLOW AN ANTENNA IN THE ROOM?

THE CORNER? THAT SQUIRREL CAGE IN THE LAB? THAT WROUGHT-IRON STAIR RAIL? YOUR CHAIR? WHERE THERE'S A WILL, THERE'S A WAY, RIGHT?

WELL, FELLOW COMMUNICATORS, HERE'S YOUR CHANCE TO FIND OUT JUST HOW SNEAKY OR CRAZY AN ANTENNA CAN BE. DREAM UP THE MOST DUTLANDISH, WORKING ANTENNA YOU CAN IMAGINE AND BRING IT TO THE CONTEST.

YOU COULD BE THE WINNER OF A \$25 DOLLAR GIFT CERTIFICATE FROM MISSOURI RADIO CENTER OR OTHER FINE HAM HOLIDAY-SUPPORTING DEALER. THREE OF THESE GIFT CERTIFICATES WILL BE GIVEN AWAY TO THE WINNERS OF THIS CONTEST.

IT'S FREE AND ANYONE MAY A PROPERLY-LICENSED HAM WILL TRANSMIT ON YOUR ANTENNA FOR.

YOU IF YOU'RE STILL WAITING FOR YOUR TICKET.

COME JOIN IN ON THE CRAZINESS MUNICATIONS FIELD. SEE THE RULES BELOW. AND FUN. CRAZY ANTENNA CONTEST RULES

 ANTENNA MUST OPERATE INDOORS ON 146.00 MHZ.

ANTENNA MUST FIT THRU A STANDARD DOORWAY.

3. ANTENNA MUST HAVE A MINIMUM OF TUESDAY, APRIL 15, 1986 WELL, WHAT ABOUT THAT LAMP IN THREE (3) FEET OF COAX FEEDLINE TERMINATED IN A PL-259 (UHF) CON-THIS COULD BE NEGOTIABLE NECTOR. IF YOUR FEEDLINE LENGTH IS CRITICAL.

> 4. ANTENNA MUST EXHIBIT VSWR OF LESS THAN 2:1.

5. ANTENNA MUST BE "HOME BREW" (NOT SOLD COMMERCIALY AS AN ANTENNA).

6. A FIRST PRIZE WILL BE AWARDED TO THE WINNER OF EACH OF THE FOLLOWING CATAGORIES: A) DIREC-TIONAL; B) NON-DIRECTIONAL; C) JUST PLAIN CRAZY.

7. YOUR ANTENNA MAY BE ENTERED IN ANY OR ALL OF THE THREE CATAGORIES.

8. ENTER AS MANY ANTENNAS AS YOU LIKE.

9. YOU MAY CLAIM ONLY ONE FIRST PRIZE.

10. OUR JUDGES ARE ACKNOWLEDGED EXPERTS IN THE ELECTRONIC COM-THEIR METHODS OF MEASUREMENT AND THEIR DECI-SIONS ARE FINAL. THE AUDIENCE MAY BE ASKED TO PARTICIPATE IN JUDGING THE "JUST PLAIN CRAZY" CATAGORY.

AUTOPATCH CRAZY ANTENNA CONTEST MUTUAL FEDERAL, 3501 N. MACARTHUR

> The Great Plains Radio Club will hold its 5th Annual Eyeball QSO and Swapfest in Mooreland OK, Sunday April 13 starting at 9:00 am. A \$2.00 admission will be charged. Swap tables will be Campsites are located nearby. Talk in will be on 147.72/12, 146.13/73, and 146.52 simplex. VE registration will begin at 2:00 pm and Testing will commence at 3:30 pm SATURDAY, April 12th. Further informat- ion may be obtained by calling Bart Lawson, M25T at (405) 994-5940 or Serald Bowman at (405) 994-5453.

WA5CZN says,

Are You Rundown? Spiritual Batteries Need A Charge?

GET REJUVENATED



Got a Problem? Call Johnny Ore 632-5098

S.W. 27th and Blackwelder Sunday 10 A.M. and 6 P.M. Wednesday 7 P.M.

At The Exciting New

Messiah Ministries Church