

CIMARRON

The September meeting of CARA was lightly attended by eight of the faithful. Vice President Ray Barnes, AB5Z, chaired the meeting and one of the hottest topics of the discussion was how to get a little more interest going in the club activities!

Most of the club had just returned from extended vacations. Ray and XYL Sue along with Ernie, N5KFQ, and XYL Wilma and another civilian couple biked over 5200 miles. Nova Scotia was the final turnaround.

This motorcycle caravansary is an annual event and the only injury occurred at home after Ray got off his cycle and took hold of a long handled shovel.

Leo, WZ5H, and XYL Ann, also made the tour, traveling through six states to British Columbia and Calgary. In Calgary he met two of his long lost cousins...one whom he had never seen and another he had not seen for 53 years. Leo is an avid and talented DXer and in his travels sometimes meets with radio pals. His enthusiasm is catching!

During the business session it was decided to have a "SUPER SPUD", dinner November 9th...which is the time of our regular meeting. Jack NN5Z and Betty KASRTW will furnish the spuds and all garnishments will be brought by members attending.

It was also decided to authorize the Secretary to have membership
cards printed for the following year,
the memberships to be \$10 bucks with
associate members at \$1. per person.
Associate members being non-hams who
will have no voting priviliges.

Leo reported that Robert Baker, N5MPH, has purchased a new Knwd 440, and 321A Knwd 2 mtr rig...not to mention the makings of a fine radio stn. We're looking forward to hearing you on the air, Robert! If you need an antenna party, let us hear from you!

Ray and Denny and Leo reported that the last Upgrade exam had one lone applicant he couldnt upgrade. I have an idea that we fell down on advertising the opportunity.

Those attending the meeting was Denny WK5V, Nadine N5FMH, Vern KA5SZD, Ray AB5Z, Jack NN5Z, Betty KA5RTW, Continued, next to last page

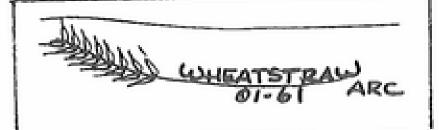
NOTICE

NOTICE

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

- Your copy must be in by 8:00 pm on WEDNESDAY.
- 3. Copy SHOULD be 3 inches wide, but if it can't be presented that way get it to me any way possible. I will reset it if necessary.
- 4. Use a BLACK ribbon. If it is too light I can darken it up.



The September 10th meeting was held at the Mead Park in Weatherford at 2:30 pm. Hosted by W5MGZ Perry, N5NPG David, N5NZU Jane and N5MOL Jon.

Twenty seven members and guests were present. The guest were Ronald Felson of Stockton CA. WA5RLP Margret's brother in law. WA5ZOO Harold and wife Betty of Lawton. W3TDV Lew of Weatherford, and K5LGW Jim of Clinton.

Yours truly did not make the meeting, I hurt my left foot down Texas way the 3rd of Sept. and had to be driven home. But I heard that every one enjoyed the meeting.

N5KCO Neal invited everyone to El Reno for the October meeting. The location is not set up at this time, check in the Wednesday night Net at 9:00 pm for location.

W5MGZ Perry entertained the group with a magic show, he does a good job of it. To me the way he leads into an act is a show in it's self. All the shows I have watched him do, I have never figured out how he does it.

The club has had several members with health problems this summer. WO5B Edgar has been ill, I hear he is on the mend. N5FMO Scotty, and K5LLX is on the improving list. AB5Z Ray is home, he has been down with his back, but is up now. We certainly hope and pray everyone gets back on top soon.

to Texas Goldie and I went this month. On the way to Carthage we stopped in Winnsboro for about three hours and visited a nephew we hadn't seen for thirty six years. We stopped in Quitman and visited some cousins of mine. We enjo-We were just three ed it. miles from where I started I would have stopped school. by but the school house is gone, just the old open bucket well is left.

While we were in Carthage we visited the Jum Reeves memorthat the I learned ial. CARTHAGE having ARS is memorial day for "GENTLEMAN" JIM REEVES Saturday October 21, from 8:00am to 4:00 pm if the weather permits. The call for the voice frequency will All General Class be AA5HF. bands will be on the lower end Be sure to get of the band. the contact number to put on the outside of the envelope you send your QSL card in. Enclose a #10 SASA for a nice certificate upon receipt of your QSL card. Mail the cards to: AA5HF (for voice) Rt 4 Box 166-X, Carthage TX 75633. For CW the call will be W5QLA. Send mail to W5QLA 106 Gaston, Carthage TX 75633. Use Central time, and the radios will be set up at different locations. Give them a call.

73 WA5PFK

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1 AERONAUTICAL CENTER	ARC
MEETS: FIRST THURSDAY, FLIGHT STA	
BUILDING. FAA, SOUTH MACARTHUR 7:3	0 PM 685-4016
WELFILLER MARKE	702-5450
ASPR MAROLD TODO, WASVAG ASVP CHARLIE GREENE, WASJGU	685-3685
ASVF CHARLIE GREENE, WASJGU	943-5631
EDITOR: BILL OLIVER & LUKE ELLIS	329-6333
2 CENTRAL OKLAHOMA VH	F
MEETS: 11:00AM THIRD SATURDAY, TH	E SEICKS
RESTAURANT, 3100 N PORTLAND, DKC	
PR JACK MUSE, WB57K7 VP FRED BOARDMAN, WSNL	691-1152 427-2505
SE JOE BUSWELL, KSJB	732-0676
TR ELLARD FOSTER, WSKE	789-6702
EDITOR: JOE BUSNELL, K5JB	732-0676
3 MID-OKLAHOMA REPEATO	P INC
MEETS: FIRST TUESDAY, 8 PM, COUNT	
RESTAURANT, 3100 N PORTLAND, OKC	1
	799-1765
VP JERRY WETMORE, KOSIS	524-5080
S/T LINDA HOORE, KASNAV	799-1765
EDITOR:	
. ALL ATTO ALITADATOLI	
4 OK CITY AUTOPATCH	
MEETS: 7:30PM, THIRD TUESDAY SALVATION ARMY. NM 50 & PENN	
PR ROBERT SHAW, WASBUX	341-4763
WP JAMES BARTLETT, KASPSF	359-1299 789-7201
SE LEONARD HANSTEIN, MSHEL	789-7201
TR LARRY DAVIS, KF5JN EDITOR: CHUCK WILHITE, KSNK	721-4926
5 OKLA UNIVERSITY ARC	
MEETS: 7:30PH SECOND TUESDAY (SEE	
119 WILSON CENTER, 1334 S JENKIN PR FRANK DONALDSON, NSIDJ	329-4172
VP JOHN WUSTENBERG, KESM	325-2382
	321-9981
6 ALTHS ASSOCIATION	ion tu
MEETS: 7:30PM, SECOND THURSDAY, 1	HISO
MAIN FIRE STSTION (CD) ALTUS PR FRANK FERITTA, 4ASIT	482-1398
VP NONE	701 1979
S/T MIKE SCHENKEL, W5VJU	482-1797
CASTAN WILL ARREST TO	100 1303
EDITOR: MIKE SCHENKEL, WSVXU	482-1797
7 BICENTENNIAL (76er)	
MEETS: 7:00PM SECOND TUESDAY. [
RESTAURANT, 315 S MERIDIAN	392-4612
PR BILL SKIPPER, KBSBS	3109-376
S/T JERRY SPROUL, NSAUH	354-2061
EDITOR: CHRIS EVERETT, KBSGGY	364-6794
9 WHEATSTRAW ARC	
MEETS: 2:30PM SECOND SUNDAY. LO	CATION VARIES.
SEE CLUB SECTION FOR DETAILS.	
PP PERRY JONES, MSM62 (MI	ford) 772-6063
VP GEORGE MASCHINO, MSGSL 10K S/T JOE GAPLAND, WASFLT 10A	
EDITOR: RALPH NILDER, WASPEKIN	ATON6A) 623-5421

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	19 OKLA INDEPENDENT ARC	
	MEETS: 7:00PH SECOND TUESDAY	. 6
	SOUTHMESTERN BELL OFFICES, PONCA CITY	
	PR VERNON TREIBER, Jr. NSANV 767-6260	
	VP TRUMAN STINER WSSNRE	
	OF STERN PRICE NEWER	
	TR JIM DEL TORTO, KSFLL 762-1221	
	EDITOR: MIKE MORRISS, MSJJR 765-6260	
_	Editoria mare and a second	1
	11 EDHOND AR SOCIETY	1
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	HEETS: ODD HOWTHS, 3RD SUNDAY, 2:00PH EDWOND EOC. DINNER, EVEN MONTHS, 3RD FRIDAY, PR HAROLD WELLS, WASZKI 623-5191	F
	COL. DIRECK, EVER MONTHS, SED FRIDAY,	F
	PR HAROLD NELLS, MASZKX 623-5191 VP MARTIN Hc6EE, MSLZS 947-4968	10
	SE DANN ROWELL, N5KMG	le
	TR GLORIA GUINN KBSBGN	l _r
	EDITOR:	ľ
L	Entions	١.
i	18 GREAT PLAINS ARC	Î
ĺ	INEETS: 2:15 PM FIRST SUNDAY	12
	WOODWARD PUBLIC WORKS BLDG.	I
	PR WINDLE HATCHETT, MASPLW(FT SUPPLY) 766-3561	(
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	VP BOB BAYLESS, WBOGAX NONE SE ROD FORD, WBSOVT(GASE) 923-7683	1
	TR FREIDA PATTERSON, NSEOX(HOND) 256-2111	1
	'EDITOR: LEON CARLISLE, KBSCZT	
Į.	extrem even substract poyet.	-
	13 KAY COUNTY ARC	
j	MEETS: 7:00 PM, THIRD THURSDAY, SEP-MAY,	- 1
١	PIONEER VO-TECH, PONCA CITY OK	l
I	DO HIVE MODERN MELO? 745-0570	ı
l	THE OTENS UNICTON VICTOR 763-7337	
	PR HIKE HORGAN, H5LPZ 765-9539 VP STEVE HUSTON, KB5DOR 762-4726 S/T HARRY BEATIE, WD5DPR 765-3862	ı
	0/1 MARKS DEHISE, MUSUPE /63-3667	١
	EDITOR: DAVE LAAND, KDSFX 762-8616	- 1
	COTTON: DAVE CRAND, KDGFA 702-0010	4
	14 CIMMARON ARS	
	MEETS: 7:39 PM SECOND TUESDAY WX5Y PLAYHOUSE, 827 S 13, FAIRVIEW	
	WISY PLATHUUSE, 82/ S 13, PHINVIEW	
	PR JACK KELLY, MSLBN (405) 227-4515 VP RAY BARNES, AB52 (405) 274-3334	1
	VP RAY BARNES, 8851 (405) 244-3599	
١	SE DENNIS PAINTON, MKSV (405) 764-3599 TR NADINE PAINTON, NSFNH (405) 764-3599 EDITOR: JACK DAY, NNSZ (405) 227-3462	
ı	TR NADINE PAINTUN, NOTHH (405) 704-357	
	EDITOR: JACK DAY, NNSC (403) 227-3462	
	15 SOUTH CANADIAN ARS	
	MEETS: 9:30AM SECOND SATURDAY, RED CROSS BLDG	
	NORTH DU CAMPUS. NORMAN PD OND! WOLF. NUSW 799-515	ا ه
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	At Banting Stores	4
	SE KEN BROWN, NSKUK	5
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	EDITOR: KEN BROWN, NSKUK NONE	
	16 EDMOND AR CLUB	
	HEETS: 7:00PM SECOND MONDAY. SEE CLUB	
	SECTION FOR LOCATION AND TYPE	
	PR MARK NORTHCUTT, WDSDY1 755-467:	2
	VP NENDELL COCHRAM, MB51SO 943-4300	В
	S/T KAY MORTHCUTT, WDSDYJ 755-467:	2
	TRUSTEE: DENNIS ORCUT, WB5ISN 340-00	34
	OFFITON OUL A CARTO AMATEURO	
	CENTRAL OKLA RADIO AMATEURS	
	MEETS: 7:00PM FOURTH TUESDAY. RED CROSS	
	BLDG. 10 & HUDSON OKLA CITY (RACK BUOR)	
	PR FRANK TASSONE, AA561 341-4945	
	TATE-001	

ARRL Petitions FCC for Codeless Class of Amateur License

On August 31, 1989, the ARRL petitioned the FCC for a new "Communicator" class of Amateur Radio license which does not require a demonstration of proficiency in Morse code. This new class of license, if adopted by the FCC would grant privileges on amateur frequencies above 220 MHz.

According to the League's proposal, transmitter peak envelope power (PEP) would be limited to 250 watts. Another provision of the League's proposal would be that a Communicator licensee could not be the control operator of a repeater or auxiliary station. Examinations would be administered through the Volunteer Examining Coordinator (VEC) system.

According to ARRL Executive Vice President David Sumner, K1ZZ, "It was a very difficult issue for the Board to deal with because there were strongly held views at opposite ends of the spectrum. There were a number of proposals for different things. We started out with the committee report and proceeded from there to discuss various amendments to it. There had been many other opions considered informally during the preliminaries. People should be reassured that the Board gave this subject very, very deep and careful consideration."

Under the League's proposal, Communicators may upgrade to Technicians simply by passing a five word-per-minute code test given under the VEC system.

Code examinations will continue to be required for all other classes of Amateur Radio licenses, and Morse code will continue to be an important part of ham radio.



"Oh don't be such a grouch! He thought he could jump over you!"

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SE MARSHALL MADDOX, WUSP

TR TOM MANGHAM, KSLDI

EDITOR: JOE HARDING, MASZNF 737-1044 CIRCULATION: BOB GRAHAM, WB5NSV 677-8685

Location	Output	Offset	Call	Notes	Sponsor
Enid	29 620	-0 100	VACEAT	0	VAERA 7
Tulsa				0	
Oklahoma City				0	OKC AP Assoc
					KB5XM
Mustang Oklahoma City	53.750	-1.000	K 5.JT.	0175.5	OKC AP Assoc
Oklahoma City	53.850	-1.000	K 5URJ	0	K5URJ
Oklahoma City	53.990	-1.000	K5YGM		K5YGM
Cleveland		-0.600		С	WB5MPU
Chickasha			WAOAQO	oa82.5	WAOAQO
Chouteau	145.130			oe(ca)	K5TTG
	145.150	-0.600			AmRedCross
	145.190	-0.600		c (ca)	NPD ARC
Tulsa Blackwell		-0.600			AB5M
	145.230 145.270	-0.600 -0.600		ol	NSANV
	145.290	-0.600		o oal	KN5M
Ponca City					Enid ARC WDOHCO
Oklahoma City		-0.600		Uα	Pub Safety RA
Stillwater	145.350		WB5KQL	oe	SARC
McAlester	145.370	-0.600		or	PittCtyARC
Piedmont	145.370	-0.600		o(ca)	N5KUE
Oklahoma City	145.410	-0.600		oer	OK CD
Sapulpa	145.430	-0.600	KF5YP	oe	Sapulpa Rpto
Fairview	145.450	-0.600	WK5V		MCARA
Sulphur	145.450	-0.600		oe	KE5M
Tulsa	145.470	-0.600		o(ca)	AB5M
Oklahoma City	145.490		WA5CZN		WASCZN
Beaver	146.610	-0.600			Beaver ARC
Calumet Hugo	146.610	-0.600		0	WhStr ARC
Holdenville	146.610 146.625	-0.600			SE OK ARA
Cavanal Mtn	146.640	-0.600 -0.600		oe	Tri-City ARC
Granite	146.640	-0.600		oe	FSAARC
Kingfisher	146.640	-0.600		o oa	Granite ARC WA5GHK
Bartlesville	146.655	-0.600		0	Bville ARC
Oklahoma City	146.670	-0.600			MORI
Dougherty	146.700	-0.600		oy	K 5 BMS
Tulsa	146.700	-0.600	K5LAD	oy	K 5LAD
Francis	146.715	-0.600		oe	WB5QYK
Clayton	146.730	-0.600		0	SE OK RptA
Duncan	146.730	-0.600			ChishTrlECA
Miami	146.730	-0.600		_	MiamiRpt-AP
Stillwater Woodward	146.730	-0.600		01	OSU ARC
Muskogee	146.730 146.745	-0.600 -0.600			GrPlains ARC
Bartlesville	146.760	-0.600		oe o	MuskogARC Bville ARC
Elk City	146.760	-0.600			WCent OK ARC
Oklahoma City	146.760	-0.600		0	Bicentennial ARC
Mounds	146.775	-0.600		oel	775 Group
Altus	146.790	-0.600		oel	SORA
Ardmore	146.790	-0.600		oe	Ardmore ARC
Miami	146.790	-0.600		0	Miami ARC
Oklahoma City	146.820			oe(ca)	OKC AP Assoc
	146.820	-0.600		oe(ca)	TRO
	146.850	-0.600		oe	MuskogARC
Oklahoma City	146.850	-0.600		oa	AeroCtrARC
Norman	146.880	-0.600		oa ()	OU ARC
Tulsa Vici	146.880	-0.600			TRO
Broken Arrow	146.895 146.910	-0.600		0	KC5OU
Lawton	146.910	-0.600 -0.600		oea o	BA ARC
Shawnee	146.910	-0.600		0	LwFt.Sill ARC Shawnee ARC
	~	0.000	" 20VU	~	DIIGALICE WKC

Location	Output	Offset	Call	Notes	Sponsor
Durant	146.940	-0.600	K5KIE	0	DARA
Enid	146.940	-0.600	W5HTK	0	Enid ARC
Oklahoma City	146.940	-0.600			MORI
Tulsa	146.940		WASLVT	oe	TRO
Ardmore	146.970	-0.600		0	Ardmore ARC KayCtyARC
Ponca City	146.970	-0.600	WB5DYR	oea	Osage ARS
Pawhuska	146.985 147.000		K5JME	0	AmAirlaRC
Tulsa Oklahoma City	147.030		WD5AII		Edmond ARC
Skiatook	147.045		KA5EKA		Gr Ctry ARA
Norman	147.060	0.600		oa	SCARS
Pryor	147.060			oe(ca)	MayesCoARC
Enid	147.075		KA5EAJ		KA5EAJ
Choctaw	147.090	0.600		0	Choctaw ARC RogersCtyWireless
Claremore	147.090	0.600	изок изног	0	N5HOL
Stroud	147.105 147.120		WB5EDD	oe	WASPLW
Fort Supply	147.120		K5EXF	oe	K5EXF
Tulsa Edmond	147.135			oe(ca)	Edmond ARS
Cordell	147.150		AA5ER	oe	AA5ER
Enid	147.150		W5HTK	0	Enid ARC
Grove	147.150	0.600	K5PJR	О	K5PJR
Guymon	147.150	0.600		oe	DustBowlARC
Sulphur	147.150		KA5DAV	0	MurrayCtyARC
Shawnee	147.165	0.600		oe	WN5Z AA5GB
El Reno	147.180		AA5GB WD5EVU	oe(ca)	WD5EVU
Tulsa	147.180		K 5 V H U	oe o	SeminoleUG
Seminole	147.195 147.210		K5JL	oe(ca)	OKC AP
Oklahoma City	147.225		W5GA	0	Okmulgee ARA
Okmulgee El Reno	147.240		AC5C	0	ElRenoARC
Tahleguah	147.240	0.600		0	WAGEAW
Anadarko	147.270		WB5KJD	oe	CaddoARES
Stillwater	147.270		K5FVL	oe	K5FVL
Ada	147.285	0.600			Ada ARC
Bixby	147.300	0.600			WB5EVU GrPlains ARC
Byron	147.300	0.600	WD5GJN N5ANG	oel o	Canadian Vly ARC
Purcell	147.300 147.320		WB5EDN		WB5EDN
Newcastle	147.330		WA5VMS		WA5VMS
Muskogee Oklahoma City	147.340		WD5AII		Edmond ARC
Big Cabin	147.360		WASICW		WASICW
Chandler	147.360		WD5CIG	0	Bk-Jk Rpt Soc
Fort Sill	147.360		KD5RQ	0	KD5RQ
Mooreland	147.360		WBOPGD		WBOPGD Okio APC
Texhoma	147.375		WOPFJ	0	Okie ARC NF51
Wynnewood	147.375		NF5L	0	AB5J
Lawton	147.390		AB5J WB5NJU	oa	WB5NJU
Tulsa	147.390 223.940				WB5AOH
Fort Gibson	224.060		WDOGST		MayesCoARC
Pryor Oklahoma City	224.100		KA5TDA		MORI
Muskogee	224.340		W5EJK	oel	MuskogARC
Oklahoma City	224.440	-1.600	K9KK	cl	Garage RN
Chouteau	224.500				WASNKR
Durant	224.600		N5KFS	oe(ca)	ARMPIT OSU ARC
Stillwater	224.600	-1.600		ol oa	KE5KM
Sulphur	224.800) KE5KM) W5DRZ	oe	BA ARC
Broken Arrow	224.900 224.940		W5DKZ	oe o	Enid ARC
Enid	224.940		K5LAD	Ö	K5LAD
Tulsa Davis	224.980		N5HPG	oe	N5HPG
J4 7 1 J					

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Location	output	Offset	Call	Notes	Sponsor
and the state of t	105 250	14 000	KAEROS	0.0	ATV Soc
Guthrie		14.000	KASEOS	6	WD0HCO
Ponca City	426.250	485.000			WDOCTA
Stillwater	427.250	12.000	MDOCLA	0	WB5VMY
Calumet	442.050	_	WB9VMY		Garage RN
Moore	442.100			cl ol	N5ANV
Blackwell	442.350			O.L	K 5 Y GM
Oklahoma City	442.550		K5YGM	6	WDOHCO
Ponca City	442.950		WDOHCO		WD5GUG
Enid	443.000			oa	WASVMS
Muskogee	443.100		WA5VMS	oePL-141.3	WN5J
Oklahoma City	443.100	5.000			WD5GUG
Enid	443.200		WD5GUG	0	WB5MPU
Cleveland	443.300		WB5MPU	00	KE5KM
Sulphur	443.300	5.000	KE5KM	oe o caPL-146.2	N5LWO
Tulsa	443.400		MOPMO	O CAPL-140.2	WB5EDN
Oklahoma City	443.550			oPL-141.3	
Ada	443.800		WB5NBA	0	Ada ARC
Tahlequah	443.800		WA6EAW		WAGEAW
	443.850		KD5RQ	oe	KD5RQ
oklahoma City	443.900	5.000	ADIS		AD1S
Tulsa Del City Vici	443.975	5.000	NSGQV	-Dr 141 3/)	N5GQV
Del City	444.000	5.000	WR5G	OPL-141.3(Ca)	WR5G
Vici	444.050	5.000	KC500	0	KC5OU
Altus	444.100	5.000	WB5KRH		SORA
Oklahoma City				o caPL-141.3	
	444.100		WA5LVT		TRO
Grove	444.150	5.000	K5PJR		K5PJR
Oklahoma City	444.200	5.000	WD5AII	o caPL-141.3	Edmond ARC
Tulsa	444.200	5.000	WASBPS	0	
Oklahoma City	444.300	5.000	K 5 J L	OePL-141.3	OKC AP ASSOC
luisa	444.300	3.000	KJUND	•	1100110
Claremore			WASVPO	0	
Norman				oe(ca)	
Enid			WA5OUB		Enid ARC
Fort Gibson				0	WB5AOH
Tulsa	444.450	5.000	WA7HDR		WA7HDR
Bethany	444.500	5.000	N5HIP	oPL-141.3	N5HIP
Cavanal Mtn		5.000	N5ZS	oe	FSAARC
Alva	444.550	5.000	WA5UTO	ol	GrPlains ARC
Tulsa	444.600	5.000	INACH		NSANY
Oklahoma City	444.700	5.000	WD5FAM		WD5FAM
Ponca City Bartlesville	444.700	5.000	W5TXF	0	W5TXF
Bartlesville	444.775	5.000	WD5DWT	0	WD5DWT
Piedmont	444.800	5.000	N5KUE	oPL-141.3	N5KUE
Oklahoma City	444.850	5.000	WA5CZN		WA5CZN
Stillwater	444.900	5.000	K5FVL	0	K5FVL
Oklahoma City Stillwater Tulsa	444.950	5.000	KA5VFY	o(ca)	KASVFY
Kingfisher	444.975	5.000	WD5GLD	0	WD5GLD
Oklahoma City	447.575	-5.000	WB5ERN	cl	WB5ERN
Chandler	449.650	-5.000	WD5CIG	oPL-141.3	Bk-Jk Rpt Soc
Tulsa	449.875	-5.000	N5JJZ	olPL-82.5(ca)	Amair ARC
Calumet	1282.100	-12.000	WB9VMY	e	WB9VMY

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Minutes of September Meeting

Meeting was called to order by President Jack, WB5ZKZ, at 12:25 p.m. with 15 members and guests present. Ellard, W5KE, gave the Treasurer's report. There was some discussion of a November wiener roast. It will be held November 20 at 6:00 p.m. at Bethany Lyon's Park. All amateurs are invited.

President Jack indicated that he would like to appoint a nominating committee to propose a slate of officers for next year. He asked the members to be thinking of who would like to be on that committee.

After leading some discussion on the proposed no-code license, Charlie. WA5JGU, gave a program which consisted of a video tape of Lake Powell, the Glen Canyon dam area. Charlie and Bob, W5HXL, recently visited the area and related the wonders they found there.

Meeting adjourned at 1:25 p.m. Joe, K5JB, Sec'y

PK-232 Upgrade Announcement

I received an announcement by mail from AEA that a new version of the PK-232 firmware is available. There is also a hardware addition that permits adding a personal mailbox to the thing.

The firmware update adds some new functions but there simply wasn't enough room left in the PK-232's adadd mailbox to space dress functionality so the hardware addition was devised. According to the announcement, the daughter board installs into the sockets on the PK-232 board and requires the soldering of one wire. Sounds simple enough. The full blown upgrade costs \$65.00 and is ordered directly from AEA. If you want them to plug it in and solder that wire, they will do it for \$30.

The firmware alone costs \$30.00. I am not sure how old mine is so I don't know what new features I would get until I power mine up and look at the firmware date. According to the notice, in February 1988, AEA added the PPERSIST and SLOTTIME functions. However, my PK-232 manual revised March 1977 showed those functions

and I have been using them on my PK-232. In this upgrade, the firmware supports Eric Gustafson, N7CL's, Priority Acknowledge scheme. This function gives priority to packet acknowledgments for data that has already been received by a distant station. Supposedly, useless retries of the return ACKs and possibly redundant data can be avoided. In December 1988, AEA added the CUSTOM command. In the current upgrade, a WHYNOT command and four more options were added to the CUSTOM command. I confess that I have no idea what these latter things do.

Perhaps the most interesting feature added to this version of the firmware would only appeal to SWLs. The PK-232 is strong in identifying and decoding various coding schemes used in HF data communications. To its set of protocols that it will decode has been added the ability to decode Time Division Multiplexed (TDM) signals. Some of those "buzz saw" sounds you hear on HF are TDM. The firmware announcement says that AEA's Signal Identification and Acquisition Mode (SIAM) will identify the presence of TDM and identify the correct channel number and baud rate.

For information, contact AEA, P.O. Box C2160, Bldg. O & P, 2006 196th SW, Lynnewood, WA 98036-0918, phone (206) 775-7373. If you order, supply your serial number. The announcement didn't discuss Heath versions, the HK-232, so Heath owners should contact AEA for procedure to order the upgrades. Joe, K5JB

TNC Parameter Tuning

I see a beacon flying around from someone who just discovered ppersist. That is good. Correct setting of the ppersist and slottime parameters require a bit of coordination among the users in a local area packet network, which is unlikely at best. If anybody cares, I will explain p-persistence in a future column. A lot of thought has gone into schemes to make CSMA (carrier sense, multiple access) work on the radio. The theorists tell us that when there is uncontrolled transmitting on a packet frequency, the success probability of a packet between two directly connected stations is only 40%. The reason it is not higher is collisions. This 40% figure is based on the assumption that a station that is ready to transmit will hold off while another station is transmitting, wait a random time interval, and then transmit its packet. Unfortunately, in reality this is a bad assumption. Many, if not most, packet stations don't hold off AT ALL when ready to transmit, for three reasons. They either don't hear the other transmitting station, or they don't decode the other station, or they don't care!

Most of the operators running packet have modest stations. It is not at all unusual to read where someone is having a ball running packet on the kitchen table with the magnet mount antenna on the fridge. That's OK, but every time they hit the transmit button between 7 and 10 p.m. they stand about a 75% chance of killing another packet in progress. Would I advocate that they get off the air? Not on your life! They deserve to have their fun just like every one else. When thunderstorms threaten, my attic antennas don't do so hot either.

Another serious problem that limits a station's performance is the proximity of a computer. Those things put out a lot of radio frequency interference that raises the noise level in the area and masks signals from afar. An antenna in the same room as a computer is blasted with noise. The solution, of course is to separate the antenna from the noise source because even a well shielded computer is a disaster around a sensitive receiver.

The second problem, failure to decode incoming packets, is caused both by mal-adjusted transmitter and receiver setups. I see more poor performance caused by improperly modulated transmitters than by any other correctable cause. A packet has to be correctly decoded 100%. One hit on a packet kills it. Consider that a 128 byte packet has 1024 little bits in the data part alone - and another handful in the header and control parts. If just one of those little bits is unintelligible to the receiving station, that packet is a goner.

Some TNCs provide jumpers for selecting transmit audio levels. This gives you two optional levels that are both wrong. I can't see for the life of me why anyone would be satisfied with plugging in a piece of gear and operating it without knowing that it was operating nearly correctly. It is like driving home and parking the car in the middle of the street somewhere on the block where you live (and forgetting where you left it), satisfied that you are "close enough".

There is no perfect way to check the transmit audio level (because there

are no perfect receivers or transmitters out there) but you can come close if you listen to your transmitter and compare it to one that you know works well. The OKC Net/ROM station, WD5HJL-1 is a good reference. It's tone is musical, not raspy. It isn't too weak. And Bill knows how to use some excellent test equipment to set it correctly. If you have a tin ear, connect a VOM to a monitor receiver speaker, set it to read AC voltage, turn up the volume enough to get a meter deflection on a packet from a good working station, and turn the transmit level control to get a similar reading on your station when you are sending a packet. If selecting the jumpers on that type of TNC don't yield satisfactory results, pick the higher level one and add some resistance to the microphone circuit to bring it into range.

If all the TNCs in your area sound bad, and you don't want to use them as a reference, or you don't have a VOM, try this. Put the TNC is a calibrate mode and transmit a high tone, or a two tone test. Turn the level control back and forth until you find the upper level beyond which the transmitted tone gets no louder on the monitor receiver. Back it down from this point until the loudness is just perceptibly less. You will likely be in your own driveway - maybe not right square in front of the garage, but you will be much closer to home than if you did nothing.

On the receiving end, audio has to be presented to the TNC at a reasonable level. It has been my experience that TNCs can deal with a fairly broad range of levels if the packet is well above the noise. If there is a little bit of noise, it seems to be better to present the audio to the TNC just above the lower threshold of decoding. I guess that noise spikes take up a little less time at a lower level than they would do if they are sent at a high level requiring limiting in the TNC's decoder.

The third problem, TNCs that just don't care, is caused by screwing up the parameters, or the threshold control set-On the PK-232 there is a tings. threshold setting that acts like a carrier detector sensitivity control. Set its threshold too low and you stomp on other stations regularly. Set it too high and you never will transmit unless you use a squelched FM radio. The control was put there for HF operation where you have to set the control to the point where it can distinguish between normal HF background noise and a signal that is possibly a packet. On FM,

you can leave it wherever you want, as long as when a packet is being received the DCD LED is lit. (By the way, contrary to the opinions of some packet gurus, there is nothing wrong with running the FM radio squelched. The amount of time that it takes for the squelch to open is minor compared to the other problems we are talking about here. In fact, with some TNCs, most notably those using telephone modem chips, you will have difficulty distinguishing squelch noise from a packet signal.

As far as setting receiver audio is concerned, I have found that in most cases, you can open the squelch and adjust the receive audio level to where the DCD LED is just flickering a little. Then close the squelch. At this audio setting, a packet signal should turn the LED solidly on and the level is pretty good for reasonable decoding.

From the default state, most TNC parameters are pretty good. If you have been experimenting and changed AXD when you meant to change TXD, and messed with a bunch of other things, you might just do a reset to get things back into a known state. The parameter I always change first is RETRY. Ten is too many. If a packet can't make it in five. I consider the circuit unusable.

Rarely I hear a TNC that has things royally screwed up, like a TXD too short, or a setting of 300 bps. What I hear the most of is retries, retries, retries of perfectly good packets that are colliding with other perfectly good packets.

There is a parameter lurking out there that seems to cause a condition that results in a mysterious disconnect from Net/ROMs. I have seen it happen, and fairly often. One station in a circuit sends a receive ready (RR) poll frame and the Net/ROM sends a receive not ready (RNR). This is caused by a full buffer. The sending station keeps sending poll frames, the other sending RNRs, until one of then disconnects. In the example I-most recently saw, a Net/ROM was sending the RNRs and it initiated the disconnect.

Dave, WB5FWE, thinks in that case the offending parameter FRACK (frame acknowledgment) was set too low on the transmitting station. My PK-232 book shows a default of 3 seconds. Though that figure is reasonable for a point to point link, it is WAY too short for a busy Net/ROM circuit. I would run it up to maybe 10 for keyboarding, and to the maximum of 15 for automatic

message forwarding. I think it there may be a protocol "extension" in Net/ROM from the way I have seen it act. It may "retry" out and send a disconnect if it is polled to many times while it has full buffers. The work around is to relax your FRACK while using busy Net/ROMS, and reset the thing to normal when things aren't so busy. I'll watch closer next time and see if I can more narrowly identify the possible cause of these disconnects.

So what are we to do to improve overall packet performance? I think that it is virtually impossible at this point to change protocol to one that requires a TNC to wait for permission to transmit, at least on the popular user frequencies. Users just wouldn't convert wholesale and if they ALL didn't subscribe to the new protocol it just wouldn't work. Perhaps, better use of the local area network concept would help by dividing users into cells that are more isolated from each other and providing backbone links between these cells. The backbone links could go to a better protocol because they are more easily coordinated. There would still be a collision problem if users get on the backbone but that could be handled by making the baud rate or protocol unintelligible to the older equipment.

Full duplex repeaters could be used instead of simplex digipeaters in the local area networks so all users would have equal chances of hearing each other.

Higher baud rates wouldn't prevent the collisions but if the speeds were increased significantly the throughput would improve, in spite of the collisions. Bdale Garbee, N3EUA, is presenting a paper at the Networking Conference describing his experiments at the megabit per second rate using microwave to handle the bandwidth and ethernet type controllers to handle the data. He is a proponent of higher baud rates at the local area network so users would experience better response while they are at the keyboards. Mail traffic moving over the backbone doesn't need the speed because it makes little difference if a message is delivered in seconds instead of minutes.

If all the alternatives were evaluated in terms of cost for increased performance, I think we would find that by far the most cost effective thing we can do is assure that our equipment is operating properly and that unnecessary retries are eliminated. Then it might

be worth investing the time and energy for the smaller incremental improvements that might be offered by drastic protocol and equipment changes.

Joe, K5JB

Flash! New Amateur Exams

In order to increase the number of licensed Amateurs, a new license structure has been created and the number of questions in the pool from which the test questions are drawn has been drastically reduced.

You will find reproduced below the entire pool and the exact questions for all levels. So as to not compromise the integrity of the test, no answers are given.

- You are listening to 14.313 MHz and you hear dot, dot, dot, dash, dash, dash, dot, dot, dot. You should:
- A. call the nearest Coast Guard Station.
- B. tear off your earphones and run around the room in a clockwise direction.
- C. buy a radio with less static.
- D. log that you have heard Oso Japan.
- The fuse in your rig blows. You should:
- A. replace the fuse.
- B. send the rig back to the factory.
- C. call your local broadcast station and ask the engineer for advice.
 - D. take up stamp collecting.
- 3. The number of sidebands emitted by a single sideband transmitter is:
 - A. one.
- B: two.
- C: three.
- D: four.
- 4. An organization that represents radio amateurs before governments is known as the ARRL. The initials stand for:
- A. American Radio Relay League
- B. Armenian Rugs Represent Luxury.
- C. Albania, Repository of Reclusive Leninists.
- D. One of the above.
- 5A. A country whose amateurs have the prefix XE borders the state of Texas. It is:
 - A. Mexico.
 - B. Europe.
 - C. Asia.
 - D. Africa.

If you were taking the test in Texas and were graduated from high school there within the past 20 years, you may elect to pass by the above question and substitute the following one.

- 5B. A country whose amateurs have the prefix VE borders states of ME, NH, VT, NY, OH, MI, MN, ND, MT, ID, WA and AK. It is:
- A. Canada.
- B. South America.
- C. Australia.
- D. New Zealand.
- The Dipole antenna was invented by Princess Di.
- A. True
- B. False
- 7. You are on the 10M band. A station is calling CQ. His call sign is JA1ITN. From the prefix JA you know he is in:
- A. Japan
- B. Cambodia.
- C. Vietnam.
- D. Laos.
- On the 15M band you have heard a station give four numbers and then say the word Zulu. This is:
- A. brave warriors in southern Africa.
- B. the address of the restroom at the London Zoo.
- C. 25 hours later, the day before.
- D. none of the above.
- Your wrist watch dial glows in the dark. This is caused by
- A. sunspots.
- B. living too close to a VHF repeater.
- C. high SWR on your feedline.
- D. linear amplifier off resonance.
- E. none of the above.
- 10. Earphones are placed over the:
- A. ears.
- B. eyes.
- C. nose.
- D. throat.

A passing grade on this exam is 10 percent. Should you pass, you will receive a license known as Noodink.

Success on the Noodink test makes you eligible to sit for the next higher grade license, known as the Reel Technical. That exam has one question.

- RT-1 You have a Yogi (named after former squat catcher for the Yankees). It has one reflector, one driven element, and one director. Your beam antenna has _____ elements.
 - A. one
 - B. two
 - C. three
 - D. four

If you passed that test, you may now sit for exam for the license class known as Generalissimo. It has one question.

- G-1. The formula E = IR stands for:
- A. Theory or Relativity.
- B. Ohm's Law.
- C. anger.
- D. Ireland.

Should you have the correct answer you now pass up to the exam for the Avanti class.

- A-1. The formula P = IE stands for:
- A. Apple.
- B. 3.14159265.
- C. Pumpkin.
- D. Rhubarb.
- E. None of the above.

If by some remote chance you have come this far you may now take the test for EXTERMINATOR! (A ten minute break is allowed.)

- E-1. The Marconi antenna was named after:
- A. Dave Sumner.
- B. Lew McCoy.
- C. Wayne Green.
- D. Guglielmo Marconi.

If you are not completely exhausted by the mental strain, you may now attempt the test for the highest grade license: Field Day Marshall.

FDM-1. Long distance ionospheric propagation is due to:

- A. Skip Tenny.
- B. Heavyside. (sic)
- C. 299.793077 M per microsecond.
- D. 1500 Watts
- E. AT&T

License power levels: Since Noodinks know the feast, have the least experience and little technique, to make up for it they will be given the most power, 3,000 W output. Reel Technicals can run 2,000 W. Generalissimos operate at 1,000. Avantis may run 500. The Exterminator is allowed 250 and the Field Day Marshall is at 100 W maximum.

Band allocations: All rules have not been finalized in Washington, but the 20M phone allocation is available. FDMs have the entire 200 kHz from 14.150 to 14.350. Exterminators have 150 kHz from 14.200 to 14.360. Avantis have 100 kHz from 14.250 to 14.350. Generalissimos have 75 kHz from 14.275 to 14.350. Reel Technicals have 25 kHz from 14.325 to 14.350. Noodinks have 5 kHz from 14.345 to 14.350.

From October 1989 Worldradio

The South Canadian Amateur Radio Society

SCARS met on the ninth of September at the Norman Red Cross. Although attendance was light when the meeting was called to order at 9:30 by Andi, WU5W, more people drifted in, including W5UZD who was forced to remain for the duration. The minutes of the August meeting were published in C&E and were approved as published. The treasurer, was not available so we had no treasurers report.

Old Business:

Field day. The lid of the month award was given by Andi to herself for failing to get the field day logs sent in to ARRL before the cutoff date. She explained (lamely, ed.) that she was so busy with botanist field trip stuff that by the time she worked her way that far down in the pile of stuff on her desk the deadline had passed. There is always NEXT year.

New Business:

Gene Johnson passed away in early September. He was a charter member of SCARS and supported many of the club activities. Flowers were sent by the club.

The O'Connell's cup criterium bicycle race was scheduled for September 17th around the south campus area. About 10 hams were needed to provide emergency communications in case of accidents on the course.

A party for the Olympic Festival Cycling Event Volunteers was
held at the Wolfe residence on the
9th of September. It was a
potluck, bring your own covers dish
and lawn chair, get together to
wind up the Olympic Festival effort
by the SCARS people who helped out
with communications for the (rain
shortened) bicycle events.

It is once again time to select a nominating committee who will put together a slate of officers for the club for the coming year. The nominating committee will be selected at the October meeting.

The possibility of placing a remote receiver on the west side of I-35 to improve repeater access in this area was discussed. This will take a lot of planing to determine if it is practical and desirable.

INDIVIDUAL IMPRESSIONS

By Charles E. Maupin, W5HQM

W.C. "Charlie" Greene, Jr., WA5JGU, is a raconteur extraordinaire. He livens up all ham meetings with his jokes and anecdotes that never fail to raise a smile if not a downright belly laugh! Charlie has proven himself invaluable as an emergency traffic handler for the Red Cross, Radio Amateur Civil Emergency Service (RACES) and other public service groups.

Charlie was born 'in Wichita, KS Sept. 24, 1921. His dad was a pharmacist. Charlie spent his youth in various towns in Oklahoma and Texas. He graduated from Amarillo High School in 1941 and promptly enlisted in the Army. He saw service as a tank gunner and finished out WWII in communications. seeing combat service with the 2nd and 4th Marines and 27th Infantry Division. His outfit was the 4th Armored Group, 762nd Tank Battalion, formed in the South Pacific during the war. Charlie suffered a broken back in 1944 when he fell from a telephone pole in the line of duty. He was discharged in October 1945 for medical disability. He married his wife Marie in 1946 and they had 3 sons in '47, '50, and '53. He was a pre-med student at 0.U. for 3 years, managing a drug store. He left school to work for a wholesale drug firm. He then went into the oil business till '57 when he had a back operation and was pronounced 60 percent disabled. He had more spine surgery in '59 and spent 6 months in the hospital, after which he was proclaimed totally disabled.

Charlie got into amateur radio in '63 due to the interest of his oldest son Robert, WA5LBK. The two built equipment together and converted surplus military radio gear to ham use. His two younger sons also got novice licenses but

Committee reports:

There was nothing to report from any of the committees.

The meeting adjourned at about 9:45 and by this time the kitchen was getting crowded and the dough-nuts were going fast.

Volunteers are needed to conduct the fall novice license class. These classes have started in October in past years and finish before Christmas.

Ken, N5KUK

lost interest during their college years. Robert has earned a E.E. degree and is currently pursuing a career in electronics with the FAA Fort Worth office.

Charlie's greatest interest in ham radio is in traffic and disaster work. He has had 15 years volunteer service with the Red Cross as Communications Chairman. It began with a hurricane along the gulf coast. A committee was organized which included Bob Ashby, W5HXL and other local hams. A station was set up at the Red Cross headquarters which worked many major disasters. When Elmer Goeckler, W5LOW passed away, Charlie cleared the necessary papers with the FCC and Elmer's family to use the call W5LOW as a memorial call for the Red Cross station sponsored by the Central Oklahoma VHF Amateur Radio Club. The station has been recently relocated to the State Capitol to serve as the state RACES Gene defense station. Nailon, K5DLE, was the first trustee other trustees have included Joe Buswell, K5JB Ford, and presently Charlie, WA5JGU. Bob. W5HXL, did cabinet work for the operating positions. Frequencies include 6 and 2 meters plus back-up HF CW and phone transmitter. Some of the notable disasters have included the Managua, Nicaragua and Mexican earthquakes, hurricanes along the gulf coast, the Big Thompson Canyon flood in Colorado, and the Wichita Falls and Lawton tornadoes.

Charlie was a prime mover for setting up the state RACES civil defense station at the Capitol along with Jack Muse, WB5ZKZ and Fields, K5VFN who is trustee of the RACES repeater. Charlie currently keeps a computer listing of all state RACES ham stations furnishes a readout about twice a year. At present, 60 of the 77 Oklahoma counties are represented in RACES with about 700 total members. Charlie served as state emergency coordinator from '70 to '73. He currently serves as Associate Vice President of Aeronautical Amateur Radio Club (ACARC). holds a commendation from AT&SF Railway for emergency traffic handlling of a derailment between the Kansas border Tulsa and involving a group of Boy Scouts in the spring of '71. He also has commendations from the National Weather Service, County and State civil defense, ARRL for emergency work in Oklahoma, Texas and Alabama tornadoes and American Red Cross for tornado and hurricane work. Charlie

INDIVIDUAL IMPRESSIONS

served as an amateur radio advisor to the Selective Service System during the Viet Nam crisis and has a commendation signed b.v former President Nixon for this work. served several years as advisor to Explorer Scout Post that specialized in radio communications. It was sponsored by Channel television and later by the Cross. Charlie was a member of the 5th District CW traffic net representing Oklahoma for many vears. working with Harold Gilbertson, W5RB who is still active in traffic handling. Charlie served as net control on the OLZ CW net also.

Charlie's primary bands operation are 20, 40 and 80 meters HF plus 2 meters VHF. He was active in Air Force MARS during the Viet Nam conflict, serving as Assistant State Director. At the 1989 Ham Holiday, Charlie was inducted into the Order of Wouff Hong. He is currently active in ACARC, Central Oklahoma VHF and QCWA. Even with a broken back and constant pain, he has certainly set an example of public service and good humor, for the rest of us!

VHF/UHF Phone Link to Tulsa

A UHF link between Tulsa and OKC has been established by the joint efforts of the American Airlines ARC and the Mid-Oklahoma Repeater Inc. (MORI).

The 444.1 Mhz repeater in OKC is linked to the 449.875 MHZ repeater by way of a remote base unit located on the Williams Tower building in Tulsa.

The 444.1 system in OKC is also linked to 146.94 and 224.1 repeater systems.

It is planned that the Tulsa link will soon include 147.00, 146.91/224.9, and the Vinita repeater. From the Tulsa area, access the 449.875 system with a -5 Mhz offset and a sub-audible tone frequency of 82.5 Hz.

(Copied from NEON ARC Sept. 89)

Posted to packet by N5WX @ N5WX Via WB5FWE BBS and K2GKK

EXTRA CLASS AMATEUR RADIO WSKE FIRST CLASS RADIOTELEPHONE LICENSE

ELLARD'S EX EL

S905 N.W. 42nd Street, Phone: 405-789-6702 OKLAHOMA CITY OKLA 73122

COAXIAL CABLE DEVICES

U.ED TEST EQUIPMENT EXCESS ELECTRONICS The Cuban hijacker, armed with a bottle of gasoline, ordered the pilot to fly to Miami.

Pilot: "But we just took off from Miami!"

Hijacker: "I know, but I forgot to turn off the gas before I left the house."

"I need a tonic for improving my memory. I'm becoming so forgetful."

"I recommend 'Memorin'—it's very effective. Have I ever recommended something that wasn't good?"

"I don't remember."

He who talks like a big wheel may be only a spokesman.

A man went to a pet shop to buy a bird. The shop owner recommended a colorful parrot and said, "This bird is a fine talker. For years he was the pet of a famous movie producer." He looked at the bird and said, "Isn't that right, Polly?"

"Yes, sir!" screamed the parrot.
"Yes, yes, indeed! You are absolutely right. Yes sir!"

Nowadays, if your ship comes in, it's docked by the Government.

Everything is relative: If a monkey had fallen from the tree in place of an apple, Newton would have discovered the origin of the species instead of the law of gravity.

Geography update:
"Where is Iran located?"
"Between Iraq and a hard place."

As Will Rogers and a friend were leaving the theater one evening, they stepped into a raging snow storm.

"Do you think it will stop?" asked the friend.

"It always has," replied Rogers.

Reporter to centenarian: "How do you feel on your 100th birthday?"

Answer: "Much better than I did a hundred years ago today."

Infallible way to slim down: Live on the sixth floor. When a meal is served, take one bite, then fling the fork out of the window. Walk downstairs, retrieve the fork, and climb back up. Repeat until your plate is empty.

Tourist: A person who travels to see things that are different, then complains when they aren't the same.

Why did the baker's helper work overtime?"

"He kneads the dough."

NOTICE NOTICE NOTICE

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

ELECTROMAGNETIC INTERFERENCE

The December IEEE Spectrum has much to say on the title subject, all words of wisdom, of course!

In every-day talk-on-the-air and other casual chatter, most of us tend to lump forms of EMI under one heading: Static. Static has many meanings, some not at all related to the reception of radio signals. So many meanings, in fact, that it has no one clear, unique meaning!

That fact was recognized by the brass at the Pentagon during WW-II. A certain lowly Captain was told to research the literature and report with clear definitions of the signals or impulses that interfered with the reception of radio communications. This was no easy undertaking, as many of the commonly-used terms were applied almost equally to the various forms of undesired impuless and waves.

The Pentagon technical library held many books and treatises, but careful search through them revealed three terms that could be sorted out for precise definitions. After eliminating duplications (and triplications), these definitions stood out:

Atmospherics: Natural electromagnetic impulses.

Strays: Man-made electromagnetic impulses or waves not produced for the purpose of communication.

Interference: Man-made signals produced for the purpose of communication or disrupting communication.

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RUBBER STAMPS

QSL CARDS!

KAY KOUNTY AMATEUR RADIO KLUB

(Before Dave makes his apology, let me Novice class, but a couple have done make mine... I had this in the bit it on their own. Here's a list of the bucket and missed the August C&E. When ones I know about-I did the September issue, I forgot I KB5JSH Mellesa White (daughter of Dave had this material. Sorry, Dave, and Kay and Debbie WN5LUI and N5LPF) KB5JVX Kounty Klub members. I'll try to do Carl DeWhitt KB5JVY Perry Badley KB5JVZ better! The regular October column Dan Pirilo KB5JWA Dan Brownfield KB5JWB follows this Delinquent one. - K5JB)

Before I get started I must apologize Dewayne Summers passed his novice exam for missing the last few C&Es. It seems just this month (July) but hasn't rethat the deadlines sneak up on me dur- ceived his ticket yet. On July 20th 3 ing the summer. I'm used to writing the local hams and one non-ham went to article the day after our meetings and Tulsa to take the exams and all were we don't have meetings in the summer! successful! KB5JVY, Perry Badley up-So, here's some updates on what has graded to Tech. (listen for him on gone on so far this summer.

TRIATHLON

this year. We had a really good turnout vanced all at once!!! Congratulations

FIELD DAY

This year's field day was another huge next years novice class?? success! We had LOTS of hams help with NEXT MONTH'S (September) MEETING everything again this year. Several folks came by who are not hams just to start at 7 P.M. at the Vo-Tech. visit. At least one of those passed his in the Monday nite nets on 146.97 to Novice exam this month. Ihanks to Mark get all the late- breaking news. 73 N50GP and Steve KB5DOR we had some re-till next month. Dave KD5FX. ally great publicity in the newspaper (And now, here is the current Kay this year too! We even got some brand Kounty Klub's submission...K5JB) new hams to make their first QSO during the time we were there. Many thanks to SEPTEMBER MEETING all those who helped. Be sure and at- Wow! We sure had a good turnout for our tend the first meeting in September, first meeting this season. There were there will be a photo album with this 16 in attendance which is good for us. year's and many past year's photos! PONCA GRAND PRIX

The races went smoothly again this year, except for some pyrotechnics from Mother Nature! We had another good turnout of hams from both clubs to help with everything. Again, many thanks to all who helped.

REPEATER REPAIR

Those who listen to the 146.97 machine way. know that it got pretty sick this summer and finally died. Thanks to Jay W5TXF and the golden soldering iron is was restored to full health! We need to schedule a work day on the antennas at the repeater site this fall. If you're interested in some 2nd story work (actually it's about 10 stories!) let me know, I'm looking for volunteers!

DIGI MOVE

The local packet repeater was recently moved out to the old water tower site which is next to the school house. It's been moved several times looking for the best site, but I think it's found a good home now! It's really working good. There are a couple more club members on packet now, John WB5YSX and That makes a total of Gary WB5WMD. eight club members now on packet! That's almost a third of our member-

ship! If you're semi-interested, let me know, I'll get ya hooked! It's really a lot of fun.

NEW HAMS AND UPGRADES

We have many new hams in the area this summer. Most as a result of the recent

Darryl Hall KB5JWC Mark Robinson WOW! That's makes 7 new hams!! Also, .97!), N5JJR, Mike got his general, N50GP Mark passed his Advanced and The Triathlon went very well as usual Lowell Rogers went from nothing to Adfrom both clubs. Many thanks to all who to all!!!!! Hmmmmmmm, look at that! that makes 9 NEW HAMS in just the last three months!!! Who wants to help with

It will

Several items were decided this time. We voted to re-affiliate our club with to run for office, we may not the ARRL. Seems we let this lapse se- have a board and this would be veral years ago. We voted to have club terrible. jackets made with our new club logo on the back. You should be getting a let- Schools celebrated their 75th ter giving you the opportunity to get anniversary with a quite large one. We also talked about the Christmas parade. party for this year, plans are under- worked the parade and we want

We're starting a used equipment list that will be available at each meeting. If you have any used equipment let me know and I'll get it on the list.

We're also starting an "Elmer" program to help our new hams in the area. We have TEN new hams here in Ponca since last spring. If you're interested in helping, let Mark N5OGP (762-1966) know. After adjournment, there were good 'eye-ball QSOs' all around.

NEXT MONTHS MEETING

12th or 19th. We may move to the 12th That's OK about forgetting last month's due to the VE exams that are held in Joe, I sent it to you REAL early and Tulsa on the third Thursday of each you've been really nice to print these month. We'll send you a notice letting up for all these years. 73 fer now, Dave you know which night.



December has been set another Christmas dinner. This is for the Scholarship funds. The tentative dates are Dec. 9th first choice, Dec. 16th second, and Dec. 3rd third As soon as the final choice. arrangements have been made, you will be advised.

October 27, 28, and 29th are scheduled for HAMPOUT at Lake Texhoma. Tent fees will be \$3.00 per day, Campsite fees \$12.00 per day and cabins for \$35.00 to \$85.00 per night. We hope everyone can attend.

1990 Dues for club membership will be coming due soon. Just a suggestion - September, October, and November are good months for this to avoid the Dreaded Christmas Blues rush. We all know how tight money gets in December and January.

Elections are are also coming up for 1990. If you are interested in becoming a Board Member, please notify one of the current board members. Volunteers are also needed for a nominating committee nominate 1990 potential officers. Think about it; every one needs to and should do their part. If no one wants

September 16th Putnam City Several EARS members pto thank all of those who participated. The parade went very well and congratulations to Putnam City Schools.

I guess that's about all for now.

Marlin N5LZF

NOTICE NOTICE NOTICE

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

I'll keep it short for this month since Our next meeting will be on October Joe's going to print last month's too. KD5FX

CORA

The Meeting was called to Order at 7:05 pm with President Frank AASGI in the Chair and the following Directors Present:

> ACARC - Tom Hangham K5LDI MORI - Bob Moore KA5ETA OCAPA -Jim Bartlett KA5PSF EARC-PhilWolfenbargerN5HIP EARS - Lee Vaughn KA5WIS

Linda Richardson N5OJP

Bob Long N5KUE

Steve Hamlin KG51P

76ERS - Jim Buswell N5BEQ

C&E ED.-Joe Harding WA5ZNF

EX-OFFICIO-JohnThomasonWB5SYT

Visiting was Joe Lynch N6CL,

ARRL Oklahoma Section Manager.

Following self-introductions the Minutes of the July '89 Meeting were approved as distributed.

After identifying Accounts Receivable as the OU and CARA Clubs, on Motion by Jim N5BEQ & Second by Lee KASWIS, the Report of the Treasury was accepted as distributed.

Committee Reports: C&E after Discussion was Consensus
to Table further consideration
of NEON ARC's merger proposal
until it were received firmly
in writing; a Roster is forthcoming as soon as practicable.

Pre-Registration - ended at a count of 577.

Registration -counted 526 for Receipts of \$4,811.50 making a total attendance of 1,092:

Talk-in - would like to do it again next year and include UHF frequencies.

Facilities - Frank read a Thank-You letter from Lincoln Plaza and announced the tentative contract specifications.

On Motion by Bob NSKUE and Second by Joe WASZNF it was agreed with amendments that Frank AASGI be empowered to contract with Lincoln Plaza for Ham Holiday # 17 (1990) on 3, 4 and 5 August and to negotiate fees under \$4,000.00 including taxes.

On Motion by Bob N5KUE and Second by Bob KA5ETA with Joe WA5ZNF Opposed, it was agreed to allow the Scholarship Committee of the EARS Executive Board to administer the CORA Scholarship in CORA's name along with their own.

Next Meeting was announced as September 26, 1989 at the usual time and place.

Meeting adjourned at 8:37 pm.

BICENTENNIAL AMATEUR RADIO CLUB

"Jo Promote Radio Communications"

The Bicentennial (76ers) meeting started at 7:20 P.M. September 12, 1989 at Dennie's Restaurant at Reno and Meridian by Bill Skipper, KB5BS president.

The 76ers neetings are now held the 2nd Tuesday of every nonth at Denny's Restaurant, 315 S Broadway at 7:00pm.

Bill Skipper former Vice president, now fills the position of President of the 76ers radio club. The position of Treasurer, Jerry Sproul-N5AUA Secretary & Editor, Chris Everett-KB5GGY hold same offices. Jim N5BEQ Buswell, holds the position of CORA representative for our club.

The secretary's report was approved as published in the C&E.

The treasurer's report was given and the bank balance was \$398.22 as of the meeting. This sum received from the division of Oklahoma City Community College and the 76ers clubs.

The CORA report was The main subjects given. was on the amount of funds that will be needed to provide in the creation and support of next years Ham Holiday. The location was under consideration in which the ham activities and display tables can be accommodated.

Repeater Report was given by Dick Backer, WB5TMW. The repeater now has a updated IDer. The antenna harness was in plans for replacement as soon as the weather calms down and time is acquired.

The new news was the Separation of the OCCC and 76ers club. The agreement was a trial basses and a separation evolved so each club can fulfill its intended obligation. Don Grahm will be advisor of the College Club and Bill

Skipper will remain President of the 76er's.

The club meetings are to be held at the old meeting sight at the OG&E building at 420 South Broadway in OKC. This is Two blocks South of the Myriad Convention Center. Parking is provided in the OG&E parking yard entering through the security guard entrance. The meeting is in the building. If any problem call out on 146.760 repeater or on simplex. If all else fails ask the security guard for assistance. OG&E's establishment will be tried for Six (6) months for our meetings and for special program presentations.

The recommendation at the time in which the club meets has been changed to 7 P.M. this was voted on and passed. The main intention of the time change allow was to programs to be held with plenty of time for meetings. The old time we started the meeting was 8 P.M.

The next meeting will be used to vote on the changes of the Bi-Laws of the joint venture of the OCCC and 76ers to the original 76ers document. Changes are also possible on the old Bi-Laws for current status updates.

The 76ers long time friend and member Aren Clark, N5ETU has went silent key. Aren was a very great supporter in Amateur Radio and shall be missed by all.

The meeting was adjourned at 8:50 P.M.

PROGRAM ON IDers for Repeaters By Bill Skipper

Bill will be presenting an ID set-up and system programing presentation for ID repeaters at or next meeting. All are welcome for this interesting presentation at our next meeting of the 76ers.



OKLAHOMA INDEPENDENT AMATEUR RADIO

These notes are from the 12 September 89 meeting.

The repeater receiver problem was discussed. A different receiver will be tried. If that solves the problem a new receiver will likely be purchased.

Hope ya'll got your HAM plates license renewed by September 30!

Both clubs have been asked to help with the CROP walk again this year. The walk date The Contact 15 October. is Vern person for this Treiber, N5ANV. Please contact him if you can help with this. W=762-6341. numbers: Phone H=767-1571.

Truman Steiner, WB5MRE, gave a nice program on the theory of operation of Astron power sepplies. Thanks, Truman.

W5GIW, Moffatt, Lou has volunteered to provide the program for the October meeting. He will show a video on I am EXXON VALDEZ accident. sure it will cover the topioc in general and the clean up effort. I'm looking forward to that one.

See you all at the meeting on the 10th of October.

73 N5JJR

No AM, No Spark

Back in the Olden Dayes you had to send with a hand key when you took the code test. Later, the use of a semiautomatic key (bug) was allowed. Of course, this was a terrible thing. Some people never did learn to form strings of dits with a hand key, and in emergency situations (where code is traditionally sent with a spoon and knife) they were unable to communicate very well.

Back in the Olden Dayes you had to answer many questions about Amplitude Modulation, including questions about the proper matching of the modulator tubes to the final tubes using a modulation transformer. You did NOT have to prove that you could read AM transmissions without the use of a computer.

Back in the Even Older Olden Dayes you their magazine, "DX News". had to answer many questions about Send \$1 to NRC, c/o Ron Musco Box 118. spark. Rotary vs fixed gaps. Damping Poquonock, CT 06064 factors. How to wind honeycomb coils. These are still very important things 73 de Doug, W9WI @ W9WI, relayed by to know, for how can one communicate K2GKK

Back in the Even Older Olden Days you had questions about more than one code. There were flavors of Morse code, and you were expected to know the differences.

In these modern times it no longer makes much sense to require certain knowledge that was required a long time ago. Particularly for those people who will never use HF, it no longer makes sense to require knowledge of AM, spark, or for that matter, Morse or Continental codes.

Our hobby progesses and changes. If it does not, it will die out. Hank, WORLI @ WORLI, relayed by K2GKK

No-code diatribes

After reading many of the megabytes of messages regarding the no- code proposals (both pro and con), I still am a bit confused...

Who said that "no-code licensees will stations or 1 contact with take over all of our bands"? This is Kuwait Amateur Radio Society station a common cry of the anti-nocode bunch. 9K2RA. Who said that ALL privileges will be granted to no-code licensees? Who said that the Technician class exam will be the "no-code" exam? There seem to be an awful lot of confusing and alarmist squawks against no-code, when, really, all the proposal said was that SOME restricted amateur radio privileges would be available to a no-code license class.

We who use 220 and 1290 MHz FM and of must course Packet channels must by now have information: A- Date and time (UTC) become acquainted with some Novice of contact, B- Call sign of the Class ops...who, for the most part are station contacted, C- Frequency and really decent and courteous hams. experienced yes, but only at the start. Kuwait station log book. They take a REALLY simple exam...Are THEY less than satisfactory hams?

Please, all, give the possibility of 1- The award will be a certificate. no-code a little thought. We, the code- class licensees won't be losing 2- There "everything", only SHARING some of our submitting the application. poorly used VHF and UHF spectrum with 3_ technically competent and EAGER newcomers.

Flame me if you must, Dave Borcher WB6RHD @ K3MC, relayed by K2GKK

AM Broadcast Band DXing

It has come to my attention that many people interested in DXing on the AM broadcast band are not aware of the, National Radio Club, an organization dedicated to this kind of DXing. Indeed, I fell into this category until 18 months ago. If you are interested in DXing on this band, you might want to write for some sample issues of

KUWAIT AMATEUR RADIO SOCIETY CONTEST AWARD RULES

On the occasion to the Peace and Friendship Games Championship to be held in Kuwait from 30 October to 12 November 1989 the Kuwait Amateur Radio Society would like to take this opportunity to sponsor a contest according to the following details:

- 1- The contest is open to both licensed radio amateurs and short wave listeners.
- 2- Contacts may be conducted on any bandand any mode from 3 to 30 MHz.
- 3- The contestant must contact 2 different Kuwait amateur
- 4- The contest will start at 0000 UTC on 30 October 1989 and will end at 2400 UTC on 12 November 1989.
- 5- The participant must submit a certified copy of the log book along with 5 IRC's or \$3.00 U.S.
- The certified copy log book copy following contain the In- mode worked, D- Serial number of the

OTHER DETAILS:

- deadline
- application should be The MANAGER AWARD addressed to: RADIO AMATEUR KUWAIT (9K2MJ), SOCIETY, P.O. BOX 5240 SAFAT, 13053 SAFAT KUWAIT.

FCC ISSUED CALL SIGN UPDATE

The following is a list of most recently FCC call signs (September 1).

			/-	
Distric	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
Ø	wwøg	KFØEV	KØKZG	KBØFDO
1	NY1M	KC1QF	N1GXH	KA1UJF
2	WS2R	KE2PD	N2JVZ	KB2IND
3	NW3C	KD3OS	N3HLK	KA3VCY
4	AB4QF	KM4XI	N4WTV	KC4MFK
5	AA5NR	KG5XY	N5PDG	KB5KMF
6	AA6QE	KJ6ZE	N6WET	KC6FOP
7	AA7BR	KF7WI	N7NLL	KB7IOC
8	WU8Z	KF8BE	N8LGA	KB8IBG
9	WK9E	KE9SB	N9IVP	KB9DIU
	КН2К	AH2CF	KH2ED	WH2AMH
Hawaii		AH6JV	NH6UK	WH6CFB
Alaska	•••	AL7LM	NL7SO	WL7BVN
USVI	NP2F	KP2BQ	NP2DI	WP2AGY
P.R	•••	KP4QH	WP4WR	WP4INE

Q. R. ZED cont.

DXCC Honor Roll badge and white hunter hat, Zedd reminded everyone that time was not to be wasted.

"Up and at 'em, boys and girls!" he cried. "The world awaits our QRZ! Tondelayo, erect the towers! Momma, run the coax! Zepp, unpack the rigs! Homer, assemble the toilets! KU5B,

stop picking your nose!"

Responding to what was obviously one of the grandest and most eloquent speeches since Armstrong took one giant leap for mankind, everyone sprang up and began working frantically. Zedd propped his feet up and had refreshment while the work was done.

It was past midnight, local, when we were ready at last. Zedd patted each of us on the head and strolled over to the No. 1 operating position and keyed the mike. He announced our DX callsign suffix twice, then said the magic words:

"QRZ from Q. R. Zedd."

The racket that came back from the waiting multitudes was sufficient to startle every wild animal in the jungle within a radius of several hundred yards. Zedd, smiling grimly, began sorting out, acknowledging, and logging the calls. Momma and Zepp, inspired, leaped to the CW rigs and soon the sweet sound of highspeed Morse filled the night.

Bill Blast set up his station nearby. Haloed by the bluish fumes from his diesel generator, Blast started on 75 and had worked all

Europe by dawn.

Zedd meanwhile worked almost everybody else, including WB5QNK and W5UZD on two-meter FM simplex, K5JB on packet, and the W5OU Field Day station on long-delayed echo propagation.

The only untoward incident of the first night came when Homer Klott finished assembling the special electronic toilets, and field-tested them. Somehow Homer (as might have been anticipated) managed to rig them backwards, so that instead of flushing downward they flushed up. His first attempt at solving this problem involved inverting the entire enclosure and installing trapeze bars, but he was soon talked out of this and proper corrections were made.

As dawn spread over the jungle clearing on that first memorable morning, all of us looked up from our DX tasks to see, with astonishment, that the sights and sounds of our operation had attracted a fantastic

throng of gaunt, dark animals which completely surrounded our campsite, ringing us to a depth of hundreds of yards in solid, staring awe.

We had, it seemed, attracted the curiosity of an enormous

migrating herd of wildebeests.

"Eck!" Tondelayo -- never at a loss for words -- squeaked. And Homer ran for his Red Ryder

memorial BB gun.

Some of the dominant male wildebeests in the front ranks of the incredible herd were startled by this activity, and began pawing the ground, tossing their heads, and otherwise acting like they intended to lead the whole mess right through our camp. Which we all saw at once would be a bad thing, because it would not only break our rigs and kill us, but leave zillions of DXers unhappy around the world because they would be left without an insurance contact.

"Fear not!" Zedd called out sharply, just as some of us were about

to burst into tears.

Slowly, with grave courage, Zedd rose from his operating position and walked across the clearing toward the solid ringed mass of deadly wildebeests.

He stopped and stared at them.

They stared back.

"QRX," he said softly, in a tone not heard since the last Tarzan movie.

The wildebeests stared, grunted, then began to turn and move away. Within moments, the jungle was a malestrom of crashing, running, stampeding animals -- all running away from our campsite.

We had been saved.

"Oh, Q.!" Tondelayo cried in deep relief as Zedd strode back toward his rig. "How did you ever do it!"

Zedd smiled and patted her on the posterior. "I did a paper on the critters once, honey. I thought I told you about that. I think it was part of the project I won my second Nobel Prize with."

Your reporter, wanting to get everything straight, rushed forward with notebook in hand, and asked the exact title of Zedd's winning research effort, the work that had provided the knowledge that had just saved us all.

Of course the moment he mentioned the title, I recognized it: No Gnus is Good Gnus. (C) 1977, Q.R. Zedd Enterprises. -- KU5B

COMARRON NEWS CONTINUED

Terry N5MLT, Ruty WX5Y, and Leo WZ5H.

It is to be booed that, as summer

It is to be hoped that, as summer wanes and everyone is back from vacation that attendance to the club meetings will pick up.

Also, members, and neighbors...
please remember our two meter net
on 145.45, Thursdays at 09:00 local
time. Be there or be square!

73's....Jack NN5Z



ALTUS AREA AMATEUR RADIO ASSOCIATION

Altus Area Amateure Radio Association met regular session on 14 Sept. in the downstairs meeting room of the North Main Fire Station. Present for the meeting were K9PNT Phil, W5QMZ Grant and Robin, WA5OGC Oliver and Ida, W5FQR Herb, WD5BBN Chuck. W5CCV Joe, W5ZDI Clyde, KB5LS Jim, WA5CBF Loren, W5VXU Mike and AASIT Frank.

Frank announced that the Southwest Oklahoma Tumbleweed Net meets again on the .79 repeater each Tuesday evening at 7 pm with AA5IT as NCS till he gets some others to assume those duties once in a while.

There will ba a license testing session on October 14 at 1:00 pm in the North Main Fire Station meeting room. All you need to bring are a couple of pencils, a couple of forms of identification, a Form 610 if you have one and a calculator if you wish. Those who want to be tested ought to be there about 30 minutes early to double check all of the papers.

Mike reminded all that when ARRL membership comes up for renewal, the Club can gain a few dollars if that membership is processed through the Club

Secretary.

Also, the Club Treasury contains \$321.64 as of thepresent time. Also, some plans are being formulated to hold another breakfast meeting in the near future, All should keep track of the Club meetings for further information.

THIS WAS LEFT OVER FROM LAST MONTH BUT THE NEED IS STILL ACCUTE. CAN YOU HELP HIM????

Anyone who would like to help me get information on computer interfaces for Amateur Radio and a computer, I would like to make a comparison for our club for possible purchase for the club station. Likes and dislikes, ease of operation, and anything else would be appreciated. mainly interested in multimode interfaces. Please call me at 341-3886 or write me at 2513 Fairfield Drive, Edmond OK 73034.

SUN	MON	TUE	WED	THU	FRI	SAT
	2	3	4	5	6	7
GREAT PLAINS ARC		MORI		AERONAUTICAL CENTER ARC		
WHEATSTRAW ARC	EDMOND CLUB Thanksgiving Day Canada	O U 76'ERS CIMMARON ARC OIDAR	11	ALTUS AREA A R A	. 13	SOUTH CANADIAN ARS
15	16	17	18	19	20	21
	VE EXAM 6 PM RED CROSS BLDG	OK CITY AUTOPATCH	L	KAY COUNTY A R K	EDMOND SOCIETY	CENTRAL OKLAHOHA VHF CLUB
22	23	24	£ 25 }	26	27	28
		CORA CORA CORA CORA CORA CORA	FOR C & E			
29	30	31	OCT	OBER	\$ 6 7 8 9 10 11 12 13 14 15 16	NOVEMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
New Moon		Halloween			17 18 19 20 21 22 23 24 25 26 27 28 29 30	19 20 21 22 23 24 25 26 27 28 29 30

Q. R. Zedd

ZEDD IN DARKEST AFRICA!

(Special to C&E)

TOGO -- The legendary Q. R. Zedd, A5A, landed in this steaming subtropical African nation this week to begin a whirlwind DXpedition.

Zedd, world's greatest DXer, landed Thursday at the Lome International Aerodrome in a 10-passenger jet aircraft of his own design. Trailed by his entourage and adoring onlookers, the great man set out at once for the highlands to the north of the capital city, where he planned six days of radio operation on all bands, all modes.

Zedd said he was making the trip to celebrate his winning of the javelin, the pentathlon, the hammer throw, the one-man field hockey trials, three swimming events and the unofficial country dancing contest during July's Olympic Festival in

Norman.

Zedd, holder of the land's only 1x1 callsign, lives just a hoot and a holler south of town at famed Honor Roll Ranch.

"Boys and girls," the great one told the assembled press, "after all the extra physical exertion I am weary. A neato DXpedition will provide me some rest, and hone my mind for future outbursts of mental brilliance."

Constance Wilhemina Zedd, of Mena, Ark., Zedd's momma, was in the DX party. Also along were Tondelayo, Zedd's blond, nubile bride; son Zepp; longtime DX pal Bill Blast, operator of the world-renowned Blast Off DX net; nerdly protege Homer Klott; a half-dozen slobbering sycophants, and of course your intrepid reporter.

Momma Zedd was in charge of CW operations, although there was pervasive doubt that there would be anyone out there speedy enough to read her. Tondelayo was in charge of station maintenance and getting up the antennas, and also planned to handle PR with the world press. Young Zepp was to be allowed to operate some high-speed CW of his own, and maybe go fishing. Blast, of course, had his own equipment and would be competitive. Homer got off the airplane carrying a booklet of

mstructions on San-O-Lets, his area of expertise on the journey.

Within 24 hours after the Zeddamatic 310 had landed in the city, native bearers and your humble reporter were struggling up jungle mountainsides far north of civilization, carrying such items as three big Icom rigs, three linears, 4KW generators and fuel, tents and other camping gear, and a number of kegs of Zedd's favorite beverage, which shall be nameless except to say that it is brewed in Colorado. The heat was fierce. Huge mosquitos and other bloodthirsty insects continuously dive-bombed the struggling party. A fierce lion challenged the native guide at one point in the deepest jungle, but quickly slunk away in the tall grass after Zedd brandished a folding chair and whip and told it to get lost.

What a relief it was when at long last Zedd studied his charts and proclaimed that we had reached our campsite! Everyone fell down in exhaustion, giving the bugs stationery targets.

All, of course, but Zedd.

Striding restlessly around the wide jungle clearing, the light of a spooky crescent moon shining on his CONTINUED ON PRECEDING PAGE