

CENTRAL OKLAHOMA RADIO AMATEURS COLLECTOR AND EMITTER



50¢

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Volume 18
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Number 205

**OK
DX**
Just for
the fun
of it

OKlahoma DX Association

OKDXA DXPEDITION UNDERWAY!

As you are reading this article, seven members of the Oklahoma DX Association are winging their way to the Republic of Palau for a DXpedition which will include a multi-single entry into the upcoming ARRL DX contest. Callsigns will not be issued until the group arrives in Belau, but expected callsigns will include KC6SS (WV5S), KC6VV (NJ1V), KC6OK (N5OK), KC6RR (WORRY), KC6MM (N5RJH), KC6BB (KB5BOB) and KC6CG (N5CG). All QSLs may be sent to OKDXA, P.O. Box 88, Wellston, OK 74881.

DXpedition organizer Jim, WV5S advises that the team will have two to three stations on the air at all times for several days prior to and following the SSB contest and they will concentrate on CW and RTTY outside of the contest period. There WILL be a six meter station included in the entourage. The OKDXA and Oklahoma Comm Center are sponsors of this ambitious trip. We wish all of the members a safe and successful DXpedition.

BUT THAT'S NOT ALL!

In addition to the Palau trip, other members of OKDXA will operate from additional DX locations during the ARRL SSB DX contest March 7-8, 1992. Craig, AH9B and Gary, N5MIH are scheduled to fly to Kwajalein Atoll to operate V73. Claude, KD5RQ; Darrell, KF5DA and several additional members from the Lawton area are planning to reactivate the famous XE2MOO for the ARRL test. Our "stay at home" members are encouraged to enter the contest

and work the folks who are far from home. When you submit your entries to ARRL, be sure to mention OKDXA in the club entry location of the entry form. Many contests recognize club entries and give credit to the DX Club in total points scored. I am not sure if the ARRL test shows a cumulative club entry but if it does, be sure to mention OKDXA.

WHAT HAPPENED TO THE MAILING?

Regretfully, there has been a delay in receiving the membership certificates. We are holding off the annual mailing until the certificates are received. I have seen the prototype of the certificate and it truly is suitable for framing. They are being printed by laser printer and it is taking additional time. When you receive your certificate, you will also receive an order blank for the new embroidered polo shirts and windbreaker jackets. They are custom embroidered by Lee's Monogramming of Mustang, OK. Some of the members have already ordered shirts and jackets; they look really classy and reasonably priced. The polo shirts with the OKDXA logo (similar to the banner for this article) plus your call-sign costs \$22 plus sales tax. The windbreaker with the OKDXA logo on the back and your name and call on the chest is \$40 plus tax. Baseball-type caps are \$12 plus tax, logo only. Other embroidered products will be available in time for the Lawton Hamfest.

WHAT HAPPENED TO THE SHIRTS?

Many of you ordered OKDXA tee-shirts at Ham Holiday 1991. Some members received your shirt direct from KF5DA or others. The remainder of the shirts have been delivered and are at the Oklahoma Comm Center. They have been kept there for quite a while. If you ordered a shirt, please check with the guys at the Comm Center to see if your shirt is

there. If it is there, please issue a check to OKDXA for \$20 and send to the Comm Center. OKDXA will pay the postage to get your shirt to you. We need to get these shirts to the members who ordered them. Please check this out today!

RENEWALS...I SENT MINE...

Wow! A few of the members were diligent and have already sent in their renewals, and we appreciate your efficiency. If you have not yet sent in your renewal for 1992 dues, hold on to your renewal until you receive the mailing. A new form for Collector & Emitter will be enclosed along with a self-addressed envelope and some other goodies. Your KH9 QSLs may also be in there...

WHAT ABOUT THESE QSLs & OKDXA?

In order to publicize the Oklahoma DX Association among DXers around the world, we are using the OKDXA mailing address as a central point for DX QSL services. In addition to QSLing route for AD1S and AH9B DXpeditions, we are also acting as the QSL route for the very active DXer V73CT, who is a brand new member of OKDXA. We have also just signed up TU4DR to use OKDXA for his present and future DX activities. You may recognize TU4DR as OKDXA member #44, Stu Honeysett, formerly H44SH. Say hello to Stu if you hear him on the air. GITMO ON THE AIR...KB1ZQ/KG4. Though he is not (yet) a member of OKDXA, we have invited KB1ZQ to use OKDXA as a QSL path for his 90 day Air Force-sponsored DXpedition to Guantanamo Bay, Cuba. Hal, KB1ZQ departed OKC on February 24, 1992 en route to Cuba on TDY assignment from Tinker Air Force Base. Hal had his trusty TS-440S and a brand new R7 Vertical ready to make some waves down in the Caribbean. Listen for him and say hello from Oklahoma. Hal may ask you to pass a message to his bride back in OKC, so lend a hand if you can.

Continued page 2



Yes, Elizabeth, there still is a weekly OKDXA net and you are invited to check in. The net meets every Saturday morning at 11:00 A.M. local time on or about 7.230 Mhz +/- QRM. The only time the net does NOT meet is on Holiday weekends or when there is a major DX contest. We visit about recent DX heard, worked and QSL'd. We prove that Dxers can be bigger liars than fishermen. We try to have fun. Won't you join us? Listen for net control KP5DA or WV5S.

ARRL AFFILIATION IN THE CARDS

ARRL affiliation is required for the OKDXA to nominate DXCC field checkers. These nominees can be submitted to the ARRL Section Manager (who is member number 18, Joe, N6CL) for approval by the DXCC management. We have numerous members who are highly qualified and anxious to serve as DXCC Field Checkers. NJ1V is the ARRL Affiliated Club Coordinator for Oklahoma. We are working with John and will submit our membership list and constitution to the ARRL for review and approval. (We must have a majority of members as members of ARRL). If we pass this first step, we will ask OKDXA members to vote on affiliation with the ARRL. We find that almost all of our members are ARRL members because this is a requirement for DXCC membership. We would welcome your suggestions and opinions.

While we are asking for suggestions and opinions, don't forget that this article is your forum to the OKDXA. You are welcomed to submit articles, features, comments or anything of interest to DXing and OKDXA. Send your information to AD1S at least a week prior to the Collector & Emitter paste-up deadline which is always shown on the calendar on the last page. If you can't type, I can type brief articles or letters in proper form for submission to the C & E editor. I need your input. The OKDXA is an association of amateurs with a common interest in DXing and contesting. You are an important part of that association!

DXBASE -v- TURBOLOG? WHICH?

As a PacketCluster sysop, we occasionally receive demo diskettes of various programs for review by PacketCluster users. I have demos of the DXBase program and recently received a demo of the new Turbolog program. These are not shareware programs; they are demos of commercially available programs that seem to do everything a ham could desire, short of dialing a "900" number. Both programs log your QSO's, but that's not all! They also interface with PacketCluster, control your transceiver through its serial port, generate CW just like a contest program, generate maps, graphs, charts and records of every conceivable award program! If you would like a copy of these demo programs, send me a high-density diskette, 5-1/4 or 3-1/2 in a self-addressed diskette mailer with return postage. Make sure you send a high density diskette. These programs are large and will not fit on 360k or 720k floppies.

9600 BAUD IN THE DX FUTURE?

Several of the DX PacketCluster sysops attended a recent meeting of the Oklahoma Packet Radio Association. The new organizer of OPRA is Hank, WA5JRH (also an OKDXA member). Hank is working with dozens of other Oklahoma Packeteers to establish a working 9600 baud UHF backbone in Oklahoma. This backbone will probably replace the present backbone system and by its very nature will allow DX PacketCluster to peacefully coexist with BBS, Ragchews, NET-ROM, ROSE, TEX-NET and just about any other present and future utilization of Packet Radio. I encourage your support of OPRA. Hank will be speaking at amateur radio club meetings across the state in the coming months. I am looking for the day when PacketCluster nodes N5OK, KD5FX, N5JKN and AD1S will link up in a reliable 9600 baud UHF backbone, thereby freeing up the user frequencies and more efficiently utilizing available bandwidth.

NEXT MONTH....



CIMARRON

At 7:30 pm, Thursday February 13, 1992 the Cimarron Amateur Radio Association met in the playhouse at 827 S 13th Street in Fairview.

Club President Ray AB5Z called the meeting to order. Those in attendance were: Nadine N5FMH, Dennis WK5V, Curtis N5RHO, Terry N5MLT, Ruth WX5Y, John W5WVU, and a visitor with tower climbing capabilities, Kenneth Monahan. Thanks for dropping by to visit us, Kenneth.

WK5V informed us that "Those Terrible Twisters" would be coming to Fairview in the near future, and that there is a RACES Net on Saturday nights at 7:00 pm.

Happy Birthdays are in order to WK5V on February 11, and AB5Z on February 25. Both have reached the grand young age of 60!!!!!!-!!!!!!!!!!!!!!!!!!!!!!

Remember the CARA NET, Thursday nights at a NEW TIME - 9:00 pm. That time will remain - year round.

Let's all try to be present March 12, 7:30 pm at the Playhouse, 827 S 13, in Fairview.

Be there or be square.

Do you know the difference in a Nose Booger and a Piece of Broccoli?

Kids won't eat broccoli!

73 John N5WVU

Jerry: Mary said that you aren't fit to live with pigs.

Larry: What did you say to that?

Jerry: Oh, I stuck up for you. I said that you were.

Wayne: Have you finished your alphabet soup?

Dane: No, I'm only up to the M's.

Knock, Knock

Who's there?

Isabel.

Isabel who?

Isabel working? I tried ringing several times.

In addition to your annual mailing, we will have the article on the 1991 KH9 DXpedition. We have been promising this report but the photos have not been available. We have been snowed under by QSLs. Now that most of the first 4,000 QSLs have been mailed we can pay attention to neat stuff like news articles, hamfest talks and the BIG ONE, the Visalia International DX Convention!

See you next month...until then, good DX! De AD1S.

1. AERONAUTICAL CENTER ARC Meets: First Thursday, Flight Standards Building, FAA, South MacArthur 7:30 pm. PR Doug Teachman, W0DXA 392-5458 S/T Ted Anderson, NY5W 685-4016 AsVP Harold Todd, WA5VAQ 685-3685 Asvp Charlie Greene, WA5JGU 943-5631 Editor: Jack WB5SUN	11. EDMOND AR SOCIETY Meets: Odd Months, 3rd Sunday, 2:00 pm, Edmond EOC; Dinner, Even Months, 3rd Friday PR Aldon Sage, KB5LIC 341-8978 VP Jim Richardson, N5OHL 524-0456 SE Lynice Hamlin, KB5FOH 427-2828 TR Ed Granger, KB5DZU 348-3454 Editor: Jim Richardson, N5OHL 524-0456
2. CENTRAL OKLAHOMA VHF Meets: 11:00 am, 3rd Sat., Favorite's Cafe, 3701 S. Western, OKC PR Jack Muse, WB5ZKZ 691-1152 VP Fred Boardman, W5NL 427-2505 SE Joe Buswell, K5JB 732-0676 TR Ellard Foster, W5KE 789-6702 Editor: Joe Buswell, K5JB 732-0676	
3. MID-OKLAHOMA REPEATER, INC. Meets: First Tuesday, 6:00 pm social, 6:30 meeting, Favorite Cafe, 36th & S. Western, OKC PR Steve Corman, KB5CDF VP Robin Graham, N55PA 632-0225 SE Marvin Phelps, WB5DXZ 672-6702 TR Toy Graham, K15TZ 632-0225 Editor:	14. CIMMARON ARS Meets: 7:30 pm, second Thurs., WX5Y Playhouse 827 S. 13, Fairview PR Ray Barnes, AB5F (405) 274-3334 VP Terry McCall, N5MLT (405) 227-3672 SE Dennis Painton, WK5V (405) 764-3599 TR Nadine Painton, N5FMH (405) 764-3599 Editor: John Medley, N5WVU (405) 227-3534
4. OK CITY AUTOPATCH Meets: 7:30 pm, third Tuesday, Salvation Army, N.W. 50th & Penn. PR Jim Bartlett, KA5PSF 359-1299 VP John Guida, NJ1V 340-8555 SE Ken Goddard, WA5DTL 946-4973 TR Mac Macdonald, K2GKK 672-4947 Editor: John Guida, NJ1V 340-8555	15. SOUTH CANADIAN ARS Meets: 9:30 am, Second Saturday, Red Cross Bldg., North OU Campus, Norman PR Don Schader, K15TP 321-9649 VP Mike Winkel, N5SOF 366-8639 TR David Gates, N5LCL 392-5677 SE Gary Skaggs, WB5ULK 799-5363 Editor: Ken Brown, N5KUK & Gary Skaggs, WB5ULK
	16. EDMOND AR CLUB Meets: 7:00 pm, Second Monday, Various locations. PR Mark Northcutt, WD5DYI 755-4672 VP Wendell Cochran, WB5ISO 943-4308 S/T Kay Northcutt, WD5DYJ 755-4672 Trustee: Dennis Orcut, WB5ISN 340-0034
6. ALTUS ASSOCIATION Meets: 7:30 pm, Second Thursday, North Main Fire Station, (CD) Altus PR Leren Simms, WA5CBF 477-0921 VP None S/T Jim Molledahl, KB5LS 482-5308 Editor: Jim Molledahl, KB5LS 482-5308	18. GREAT PLAINS ARC Meets: 2:15 pm, First Sunday, Home of N5LRR, 2914 Osage Drive, Woodward PR Bob Bayles, WB0GAX, Woodward 254-3561 VP Andy Taylor, N5LRR, Woodward 256-4017 SE Rod Ford, WB5OVT, Gage 923-7683 TR Freida Patterson, N5EOX, Woodward 256-2111 Editor: Phillip Perry, N5QCN 938-2453
7. BICENTENNIAL (76er) ARC Meets: 7:30 pm Second Tues., 1801 N. Lincoln Blvd., Parking in Rear PR Hank Stokes, KB5XM 376-1067 VP Chad Drewery, N5QIQ TR Bill Skipper, KB5BS 392-4612 SE Jack Conley, AA5VU Editor: Not Filled	
9. WHEATSTRAW ARC Meets: 2:30 pm Second Sunday, Location Varies, see Club Section for Details PR Leo Peil, W25H, Canton 886-2998 VP Ray Barnes, AB5Z, Longdale 274-3334 S/T Joe Garland, WA5FLT, Calumet 893-2660 Editor: Ralph Wilder, WA5PFK, Watonga 623-5421	CENTRAL OKLA RADIO AMATEURS Meets: 7:30 pm, Fourth Tuesday, Salvation Army, Penn & NW Highway, OKC, (Back Door) PR Frank Tassone, AA5GI 341-1124 VP Jack Conley, AA5VU 392-5072 SE Jim Buswell, N5BEQ TR Tom Mangham, K5LDI 677-5291 Editor:
10. OKlahoma DX Association Meets: Quarterly - Hamfests, DX Net Saturdays - 1600 UTC-7.195 MHZ, Box 88, Wellston, 74881 PR George W. Adkins, AD1S VP Darrell Reed, KF5DA SE Paul Harrop, WB5NDN TR Paul Wardell, N5PYD Editor: George W. Adkins, AD1S 356-4101	

PLEASE help us keep your information up to date. What time, where, when, who are your officers, editors, and their phone #. Check YOUR entry, it can be changed.

If there appears to be a mistake - check with your club official. We can't do anything about it. Below is a sample label.

4	92/01	2
WILSON, MIKE WA5RTY		
1234 W 49		
McCLOUD OK 74851		

The "4" means Autopatch Club, 92/01 means he is overdue. The "2" is for postal rates.

Dear Subscriber:

If your address label has a SAD FACE it means that you are due to renew your subscription or your club dues and you will continue to get the C&E for three months then, sorry but post office rules say that we must cancel you until you pay up.

Likewise

if

you

see

a

RED X here

this will be your last C&E until you renew.

Dear Secretary/Treasurer:

When you want a change of any sort to your membership just remember...fill out a slip (COMPLETELY). Watch for the DATE you received their money and the date subscription expires. Have your slips, or list of deletions, to me by the 22 of each month. If there is anything about C&E subscriptions that you need to know, get in contact with:

Joe Harding, 9211 N. Council #216, OKC, OK 73132, Telephone 720-1019

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**O k l a h o m a C i t y
A u t o p a t c h
A s s o c i a t i o n**

Howdy! This is NJ1V. Wow, time really flies when you're having a good time! It seems as though I just finished with the last newsletter, and I already feel this impending doom of DEADLINE for the next issue!

Don't wish to provoke Mother Nature, but looks as though we've had a pretty easy Winter, and that we can soon look forward to Spring and Summer. Time for Spring cleaning, much needed antenna work, and getting ready to haul all of our old junk to the various and numerous Hamfests!

Of course, we can all expect to get involved, either as participants or interested listeners, to the severe weather nets as required by conditions. Although I hope that the weather spares personal injury and property damage, this is a great opportunity to tune in to one of the tremendous public service activities that makes Amateur Radio the greatest hobby ever! Many of your fellow club members devote personal time and expense to support this very important community service. Please volunteer your help whenever you can. If you can't, at least make sure you let those that do know that you appreciate their time and effort!

Sorry I missed the January meeting. The ole flu bug got to me pretty bad! Our President KA5PSF Jim - reports that a FB program on AMSAT was presented by WA9AFM Tom, and WB5TKI Doug!

This satellite stuff sounds very fascinating, with the possibility of combining radio, antenna, and computer technologies. And we are pretty lucky to have guys like Tom and Doug around to provide expert advice to those of us that may want to get involved now or at another time.

Sounds like another great meeting! Let me remind everyone to attend our regular monthly meetings as often as you can. We try to keep the business activities as brief as possible, leaving ample time before and after the meeting for some fellowship, and exchange of alot of ham radio information. And don't forget about the raffles that have started! Just as a reminder, a new Alinco DR 112T 45 Watt 2M Mobile will be raffled at the

April meeting. Tickets are a buck each! Feel Lucky??

Also, this is no doubt the EATINGEST (is that a *real* word?) bunch of human beings I've ever had the privilege of being associated with! Besides meeting for dinner before the monthly meetings, and coffee afterwards, several members get together on Thursdays for lunch at some of OKC's finest culinary establishments (Har!). The Gourmet Committee usually meets on .82 early Thursday morning to select the gastronomical eatery of the day. Join us in the decision process, and plan to make as many of the lunches as you can.

Also, there are regular breakfast bashes on Saturday and Sunday mornings at Grandy's on MacArthur and N.W. 39th St. Folks start rolling in about 8:30 A.M. and usually stick around until 10:00 A.M. or later.

Health and Wellfare

I recently heard Russ N5RMR on the repeater telling someone that he had returned to work. That's terrific news! Glad you are making progress Russ!!!!!!

It is with regret to report that one of our members, Charles Kirkland N5RND, became a Silent Key on Christmas Eve, 1991. Our condolences to Chuck's family.

Technical Tips

Not quite technical, but I keep hearing more interest from some of our newer members about working DX. It sure is exciting to work stations "on the other side of the pond"! Along with the contact activity, many of you have had questions relating to how to QSL with the DX, especially through the Bureau system. George AD1S is publishing some tips on how to use the Incoming DX Bureau in his OKDXA column in this month's C&E, so I will just submit the procedures for the Outgoing DX QSL Bureau. The following are excerpts from the information provided in the January 1992 issue of QST:

(Note: The ARRL QSL Service should not be used to exchange QSL cards within the 48 contiguous states.)

The purpose of the ARRL Outgoing QSL Service is to provide a convenient and economical method to send your DX QSL cards overseas to foreign QSL Bureaus. You must be a member of the ARRL to take

advantage of this service, as the "ticket" for using the service is your QST Magazine address label. (A subscription to QST is included in the annual ARRL Membership Fee.)

All of these unofficial meetings are a great place to exchange technical information, operating tips, antenna hints, political opinions, personal rumors, new jokes, old jokes, bad jokes, jokes that cannot be repeated on the air for fear of license revocation, DX-ing, pile-up busting, contesting, fishing, and hunting stories and other lies, and alot of other non-essential trivia! Don't be "eyeball" shy! Come out and join us!!

Membership News

From Mac K2GKK, comes the following roster changes, which brings our membership rolls to 270!!-

New Members:

Mark N5BXT; Bryan N5YDV
Glen NF7T; Steve N5OWK
Dick AA5NT; Jackie KA5ENU
Jerry N5YSK; Archie N5YSN
J.W. N5YSO; Shannon KB5RBX
Hobe WB5MLN; Randall N5TWY

Please join me in greeting these new members! Welcome Aboard! I hope you enjoy your affiliation with OCAPA, and we look forward to your participation in the club activities and on the repeaters.

Dropped from the roster:

K1SDF, N5GGT, N5MXQ, N5PIIW

I sure don't enjoy publishing the roster deletions. If any of you talk to these individuals, let them know they have been dropped, and encourage them to renew.

Also, please don't ever pass up the opportunity to invite a prospective member to a meeting, or motivate them to join the club.

The procedure is pretty simple and very effective. When I sent in my application for DXCC, 92 of the 103 DX country cards that I submitted had been received through the Bureau system. However, for those that are impatient, or for the countries not participating, some form of direct QSL'ing is almost mandatory.

Maybe we can twist AD1S's arm to write about direct QSLs, green stamps, IRCs, and QSL Managers in a subsequent issue.

Repeater Tips

Remember how intimidating your

Continued next page

OCAPA Continued

first contact was? I sure remember mine, and I was wringing wet and shell-shocked by the time I was finished!

Many of us made our first contacts on HF, probably CW. Based on our new license classes however, many of the "rookies" are attempting their first contacts on 10M SSB or more often on VHF/UHF, and frequently on our OCAPA repeaters.

We also have many amateurs passing through our repeater coverage area that often solicit a contact on our machines for local information or just company.

I am very aware that we have many "lurkers" almost constantly monitoring our repeaters, yet I have often heard new or unfamiliar call signs seemingly going ignored when they attempted a contact to anyone listening.

Prior to moving to OKC, I had the misfortune of living in some areas where it appeared that the most significant activity on the major repeaters was the repeater id, or the repeater regulars would absolutely ignore anyone that they didn't recognize.

How to Use the ARRL Outgoing QSL Service:

1)Presort your DX QSLs alphabetically by parent callsign prefix (AP, C6, DL, F, G, JA, LU, PY, 5N, 9Y and so on). NOTE: Some countries have a parent prefix and use additional prefixes, ie, U (parent prefix) = ES, R, YL, 4K . . . When sorting countries that have multiple prefixes, keep that country's prefixes grouped together in your alphabetical stack. Addresses ARE NOT required. DO NOT separate the country prefix with paper clips, rubber bands, slips of paper or envelopes.

2)Enclose the address label from your current copy of QST. The label shows that you are a current ARRL member.

3)Enclose payment of \$2 per pound of cards - approximately 150 cards weigh one pound. A package of ten (10) cards or less costs only \$1. Please pay by check (or money order) and write your call sign on the check. Send cash at your own risk. DON'T send postage stamps or IRCs.

4)Include only the cards, address label and check in the package. Wrap the package securely and address it to the ARRL Outgoing QSL Service, 225 Main Street, Newington CT 06111.

5)Your cards are sorted promptly by the Outgoing Service staff and are on their way overseas usually within a week of arrival at ARRL HQ.

There are approximately 66 countries that do not maintain counterpart Incoming Bureaus, therefore the League cannot forward those cards. In order to conserve space, I will not attempt to list them here. However, if anyone is interested and will let me know, I will see that they get a list.

I can tell you from experience that it can get pretty uncomfortable for a newcomer to wander into that situation! Let's all make sure that we offer a quick and friendly welcome to visitors on our machines, and especially to the new Hams that have chosen us (accidentally or by choice) as possibly their first amateur radio contacts.

NEW OCAPA MEMBER SERVICE

Mac K2GKK, provides us with the following information:

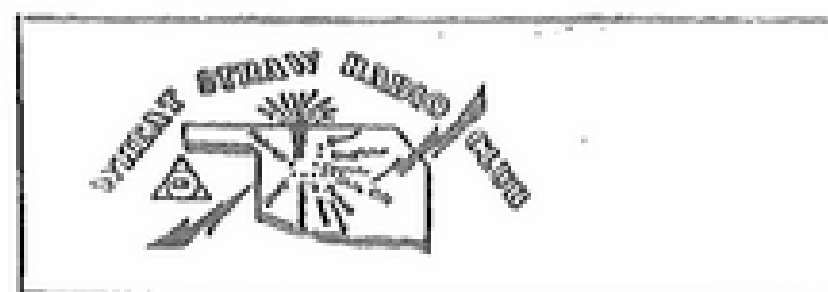
OCAPA announces a new service for its members and other hams in the OKC area. FCC Form 610 has been reproduced by OCAPA. Members can obtain a FREE copy with an "SASE" request to the club treasurer or in person at club meetings. Non-members may also obtain them via the same route but will be asked to pay for copying costs of \$.25 for a single copy or \$ 1 for five copies plus the "SASE". This action is taken to provide all Oklahoma City amateurs with an easier access to the FCC Form 610. We hope it helps YOU! [I'm sure it will, es Tnx Mac.....NJ1V].

Other OCAPA News

Four OCAPA members - Jim WV5S (and Karen), Craig KB5BOB, Ruthie N5RJM, and your editor NJ1V, will be in Palau (KC6) from March 1 through March 12. We will be operating SSB and CW on 10 through 80M, including the WARC bands, and are scheduled to operate in the ARRL DX SSB Contest March 7-8. Hope to hear you in the pileups!!

That's it Folks! B C N U !

73 de NJ1V "victor"



The Wheatstraw ARC met in the Canton City Hall February 9, with 41 present. Visitors were Arnold Lanning, Clyde Spence, Tom Adams N5NOP, Lester Scott KB5QEZ, and James Guy K7UAN.

Leo WZ5H has a radio class in session, with 12 students. They are Harold and Connie Hollenback, Robert N5MPH and Wanda Baker. Robert going for an upgrade. Ron WB0PGD and Carla WB0QGW for upgrade. Other students are Joe and Rhonda Lanning, Joe and Sharlett Anson, Sue Barnes and Clyde Spence. We wish them all success into a world of joy and fun.

Father Joe W5JEB had gone by the Rehab Center and visited Perry W5MGZ. Perry is taking therapy there, he lives in Weatherford, and is progressing nicely. Father Joe said Perrys speech was good, his mind was OK, and was setting up.

Jane N5NZU had called Pauline before the 9:00 pm Net to get a report for us. Jane gave the update on the net. Perry is now getting up and was taken to a basketball game last week. He is a great fan of the Lady Eagles od Weatherford. He loves to watch any good game. He is improving so well that he may get to go home in two weeks. We are all proud for him. We are proud of Jane and David N5MPG for keeping us up to date on Perry and other events in Weatherford.

The club voted to send a memorial to Watonga Memorial Hospital for a Wheatstraw member, Silent Key Donald Lewis K5CTJ. Don was a fine gentleman, always ready to lend as helping hand. I would say he was a perfectionist. Everything he had he kept neat and clean. In his workshop, he used a tool, wiped it off and put it back in its place. It was not just what he owned, when he worked for Sun Oil Co. the pickup he drove was always clean, when he drove in the mud Don washed it that evening. We are all going to miss him. Helen, Don's widow, has spent many years volunteering, serving and spreading cheer to the sick at Watonga Memorial. If she wishes to continue, may she do so with GOD's blessings.

New members are welcome to join our club. Licensed member, including the *Collector & Emitter* is \$10.00, second member of a household is \$5.00. Spouse of licensee is \$2.00 (but without voting privilege if they do not have an amateur license).

Kathy Carlson, a park ranger at the Canton Lake area had the program. BATS (a film on bats). We have heard things, like bats getting in your hair, carrying rabies, and that they will bite you. According to Kathy, all this is un-

Continued next page



her own. They have but one per year. Males cooperate during this phase by bringing in food or leaving the maternity cave to reduce the competition for limited supplies of food.

If your club sponsors a youth organization, or you work with youth, you can get instructions for building bat houses, and other information. Contact your local game ranger, park ranger, or you can contact the Wildlife Dept. in Oklahoma City. Your local library should have information. You can get information and blue prints from: Missouri Dept. of Conservation, PO Box 180, Jefferson City MO, 65102.

For Valentines Day I asked Goldie what she wanted for Valentine Day. She said, "We will have to wait and see, the weather is supposed to be bad". I said, "That is not what you do, Make your plans ahead of time, then if the weather is bad all you have to do is just say the weather is so bad we will cancel". She did not.

The morning of the 14th we were here alone, we decided to go to El Reno to see my cousin who is in the Sunset Estates Nursing Home. We went down, visited a while, and then took her husband out to dinner. When we took him back, we went to do a little shopping, checking with Richard whether Armada could eat chocolates, we bought her a box for Valentine Day. When we got back to the home there were two men wanting to have a party. One played the violin and the other played the guitar and did the singing. They played old time songs. The residents enjoyed it as did we. When it was over the singer said, "The smiles on your faces have paid us for our time and playing for you". It was real nice of them, I did not get their name.

Thanks go to the ladies for the refreshments for the February meeting. The next meeting will be in Okarche, March 8, at the Bank on the North End of town where we have been having it. It is on the West side of the highway. 73 WA5PFK, Ralph

The following article should have run last month. I apologize for letting it be left out. Ed.

K5DSR Stu and WA5UEW Alice

Stu, as everyone calls him, was born as Lorne M. Stewart Nov 27 1916. It was a cold winter night, Stu was so cold he didn't know whether to bark, cry or growl. His family lived six miles west and two miles south of Mulhall OK on a farm. The farm was part of the land his grandfather, O.U. Burright staked in the land run April 22, 1889.

After World War I the family had a farm sale, selling everything except a little of the

furniture. Shipping it to Arkansas, they loaded up the covered wagon and hooked up two horses, heading for Arkansas. It took them 30 days to get there in the wagon. His father always managed to camp by a stream or spring each night. On the way Mr. Stewart would stop at mid-day to feed and water the horses. That was a new experience for Stu and his sister. The family bought a farm near Maumee AR.

Living at Gilbert AR, while he and some neighbors cut timber, hauled the logs to a sawmill, after the logs was sawn into dimensional lumber a new house was built at Maumee. The lumber was good pine.

The county line ran along the north side of their farm, bordering Missouri. Maumee was named after the Maumee Mining Co. which mined lead and zinc. It was a thriving little town. The mines played out, then it was almost a ghost town. Many buildings were left vacant. They had a large hotel, post office, stock yards, and a large two story school. The ground floor was 1 through 4th grade. The second floor was 5th through 8th grade. Stu and his sister started to school there.

Some of the students lived across the Buffalo river. They either rode the ferry across or came by canoe. When the river rose, and got out of its banks, there was no crossing it. The students were absent. Stu recalls when two students came to school with two silver dollars, which was unusual. The times were hard and most of the kids were lucky to have a nickel. The teacher asked the children, "Where did you get the silver dollars?" They said, "Uncle Joe makes them, he puts ground glass in the melted silver to make them ring." The teacher replied, "I don't think you should tell that to everyone", and went on with the class.

While living at Gilbert Stu saw his first radio. The town doctor bought an Atwater Kent radio. A tuned RF job with three dials across the front. To power the radio it took a 6 volt car battery, two 45 volt B-batteries, and one 22 volt C battery. The car battery had to be recharged every two weeks. Since there was no one in Gilbert who could recharge a battery, they had to ship it by train to Saint Joe, the next town. After it was charged someone would ship it back on the train for that good old country music. Doc would hook up a large speaker, setting it up on his back porch. The back yard was full of people every Saturday night to listen to the music. This was the only radio in town, no one else could afford one. The volume control was a pot in the heater line, turning the heater voltage up and down for control.

One Saturday night Doc came out and announced that there would be no music - someone had forgotten to put the battery on the train. Soon a person showed up with a fiddle, next came a banjo, then a guitar showed. Soon four men came out of the house with the doctors wife's piano. Man, the town

came alive.

In the Maumee school the teacher would take all of the children to pick up nuts along the river. They picked hickory nuts, hazel nuts, chinka pins (some called the Wild Cherry nuts), and paupas (Arkansas Bananas). One time a grocer way up in a Northern State got in some persimmons. They are always picked green for shipping - so they wouldn't be over ripe upon arrival. Two boys were walking down the street and one said, "Did you notice the persimmons for sale?" The other boy replied "No". Since neither of them had ever eaten a persimmon they decided to buy some and sample them. Finally one started eating his. He stopped and said, "Do you have anything you want me to say to you?" The other boy said, "What do you mean?" The one eating the persimmon said, "Hurry up and tell me, because I am closing up."

There was a lady in the community who was 60 years old at that time (the kids thought she was real old) who was a mid-wife and their doctor although not a licensed MD. She would gather up kids and take them out to the hills to dig roots and herbs. Some of the roots Stu remembered were Ginseng, May Apple, Sassafras, or Blood Root, he can't remember the rest of them. She would have the children wash the roots in the creek, when they were dry she would grind them up, making a tea of them in an iron pot at home. Different mixtures she would pour into beer and whisky bottles for medicine. Some of them were black and some were brown. Some of the tasted so bad that you didn't dare become sick. She doctored almost all of the hill people, that is unless you had to have an appendectomy or something more serious. Then you had to go to Gilbert, to Doctor Roberts. He would clear his kitchen table - and operate.

Mrs. Williams also had the kids gathering different kinds of berries, roots, and bark to make dyes out of. They carded the wool and cotton, and then it was called batts. They were then spun on a spinning wheel into a thread to knit socks, sweaters, and mittens or whatever they wished.

Stu said there were not very many cars around then. About the only people who could own a car was a doctor or bootlegger. They either rode a horse or walked. Doc Roberts, over at Gilbert had a saddle horse, a buggy and a buggy horse, and two Model T Fords. At the age of 8 or 9 years, Stu got acquainted with the two men Doc had hired at his livery barn to care for the horses, buggy and the Model Ts. They let him hang around, he wanted to hear how the Model Ts worked. He always had a curious mind, some times it would get him into trouble. He remembered the men putting new tires on the Model T. They cut the beads off of the old tires, cut big slits every four inches, slipped them over

Continued

WHEATSTRAW Continued

the new tires to protect them from rocks in the road.

Stu's first term in school was at a subscription school. Cost was \$1.00 per three months term. The teacher was a local girl who had passed the eighth grade. He made his first radio at the age of 11. It was a crystal set. He hid the radio in his desk and listened on a single head phone. There were not very many stations strong enough to listen to. When the teacher would catch him, taking his radio from him, would always get the cat whisker out of place. It was a piece of Galena lead ore and would take a while to get back on a sensitive spot. He needed a long wire antenna. He worked at the school, cleaning and starting the fire, before anyone else got there. He got \$.50 a week. Being there alone a lot the door was never locked, the wheels turned in his head, he made an antenna wire. Running it from the out houses to the pony shed, to the school house, under the floor over to his desk, then up through the floor into his desk. It took a lot of experimenting to find 160 meters on his crystal set. He learned the Morse Code from his scout leader. At the age of 14 he built himself a one tube radio powered by a 21 volt telephone battery and a 22 volt C battery. It was a regenerative receiver. He learned that he could have a carrier by adjusting the coils just right. He learned this by hearing some guys saying, "Someone is sure putting out a sorry carrier." Next, he learned to key the carrier. Then guys griped about a sorry CW note. Stu kept working on the problem, it made no difference to him since he was bootlegging any way. A friend of mine who has known Stu a lot longer than I, told me quite some time ago that he is an electronic and radio genius.

The family moved back to the Mulhall Community in 1928. After four years they moved south of Guthrie to the Meridian community. That was where the love bug bit, like a bolt of lightning. Stu met a pretty red headed girl named Alice, whom he married in 1939. She went to OSU, taking a course in electronics, TV and radio repair. He had kept books for a cotton gin, had a radio repair shop in a back room and sold Atwater Kent radios. He also went to OSU and studied broadcast engineering.

Stu and Alice moved seven miles west of Mulhall where they still live. They ran a gas station, sold groceries, had a garage with two portable welders when highway 51 and 74 were first paved. He kept repairing radios, TVs and such until he retired in 1982.

Alice was always at his side, so to speak. Besides being a housewife she helped make a garden, canning etc. Working in the business, feeding the stock, or as needed.

National Weather Service Severe Weather Network

With the cooperation and support of the Oklahoma Packet Radio Association, The National Weather Service Forecast Office in Norman will once again make available severe weather information via packet radio. As in previous years, severe thunderstorm and tornado watches and warnings will be posted as they are made available by the NWS. The radar narrative summary and graphic radar maps will also be available.

Starting around March 15th the Oklahoma Thunderstorm Outlook will be posted at mid day. This product is intended to present information about the possibility of thunderstorm formation. It will contain a discussion of the overall weather patterns affecting Oklahoma and advise of the probable need for spotter net activation.

The packet radio system will operate on 145.09 mhz with the call sign of N5KUK. The 145.09 NetRom node in Norman now has the alias of OU09. Due to antenna and interference constraints users of the system outside the immediate Norman area will have to connect via the network system or a digipeater.

Jim Purpura of the National Weather Service Forecast Office in Norman will be presenting spotter training classes during March and early April. The currently scheduled classes are as follows: March 2, Edmond; March 3, Midwest City; March 5, Bethany; March 9, Ardmore; March 10, Enid; March 12, Moore; March 17, Taloga; March 19, Kingfisher; March 23, Stillwater; March 24, Chandler; March 26, Helena; March 30, Perry; March 31, Blackwell. On April 9 a class is scheduled in Woodward. Most sessions start at 7pm and take about two and one half hours. More info can normally be obtained from the local Civil Defense officials in the communities listed.

de Ken, N5KUK

What's bald, solves murders, and shakes.
Jelly Savalas

Being busy raising a family and making a living, Stu did not get his ham ticket until about 1958. They raised two sons and a daughter. The boys didn't care a thing about amateur radio. The daughter, Velma's, call is WA5UJQ, getting the license in 1968. Alice's call is WA5UEW.

Many OSU students had the privilege of talking to the Stewarts by radio, enjoying every minute of it, but never got to eyeball them.

I never heard anyone say anything but good words about them.

Alice is still a beautiful LADY. Now you know the rest of the story.

73, Ralph

The South Canadian Amateur Radio Society

SCARS met on February 8th at the Norman Red Cross. The short meeting was called to order at 9:30 by president Don, KI5TP, with 28 members present. For the benefit of guests attending, members were asked to introduce themselves. Ken, N5KUK, acting as secretary in the absence of WB5ULK read condensed minutes of the previous meeting from the February C&E. Treasurer David, N5LCL reported that the account held \$1615.81. The repeater fund stands at 157.00.

The scheduled novice class will be held in late March at the NSSL building. WB5ULK who agreed to coordinate the class was unable to schedule it any earlier due to his work commitments. Since several people have expressed interest in a code class KI5TP suggested that one be run prior to the novice class. Following much discussion nothing firm was decided.

Most people seemed happy to have the Saturday morning coffee at the Norman Days Inn on weeks not scheduled for the regular business meeting. Since these are informal gatherings no membership consensus is necessary. Where ever two or more members decide to sit and drink coffee on Saturday morning will be declared as the place where two or more members will sit and drink coffee on Saturday morning.

A question was asked by Bob, N5OXS if the club was going to provide emergency communications once again at bicycle races this year. No one at the meeting had any information about races this year. The club has not been approached to provide this service.

It was previously scheduled that the access codes for the repeater autopatch be changed on the first of February. We were unable to contact the membership in time to advise everyone before this took place so the change was rescheduled to the 15th of the month. A letter with the new access information was handed out to all attending the meeting who had paid their dues to date. Letters will be mailed to all others who have paid already. There was a question from the floor about a club roster. As soon as we get the database updated we will try to produce a members roster. It would be too expensive to mail it to all members but it will be made available at meetings. Hopefully it should be ready by the March meeting.

Ken, KA5EFJ signed up some new members. A question was raised about spotter training and Bill Bunting, N5SAL, a meteorologist from the Norman National Weather Service office agreed to give a short spotter training course after the meeting in March.

After the meeting adjourned a drawing was held for the door prize, a copy of the ARRL handbook, which was won by K5FLL.

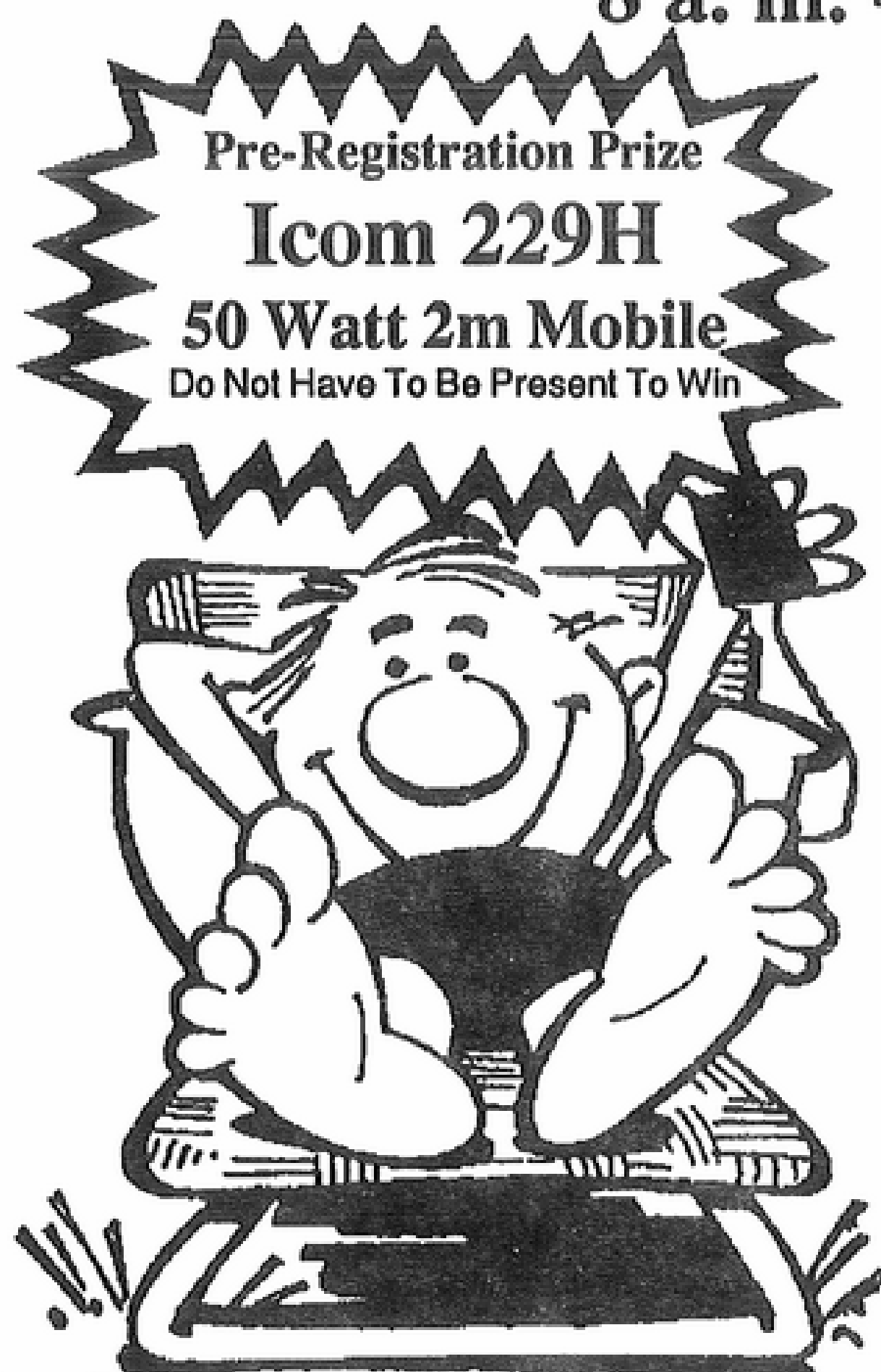
de Ken, N5KUK

Elk City Hamfest

March 7, 1992.

Elk City Civic Center

8 a. m. - 5 p. m.



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Swap Meet

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Testing Session

1:00 P. M.

Pre-Registration

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Pre-registration deadline 2/20/92

Postmark determines date

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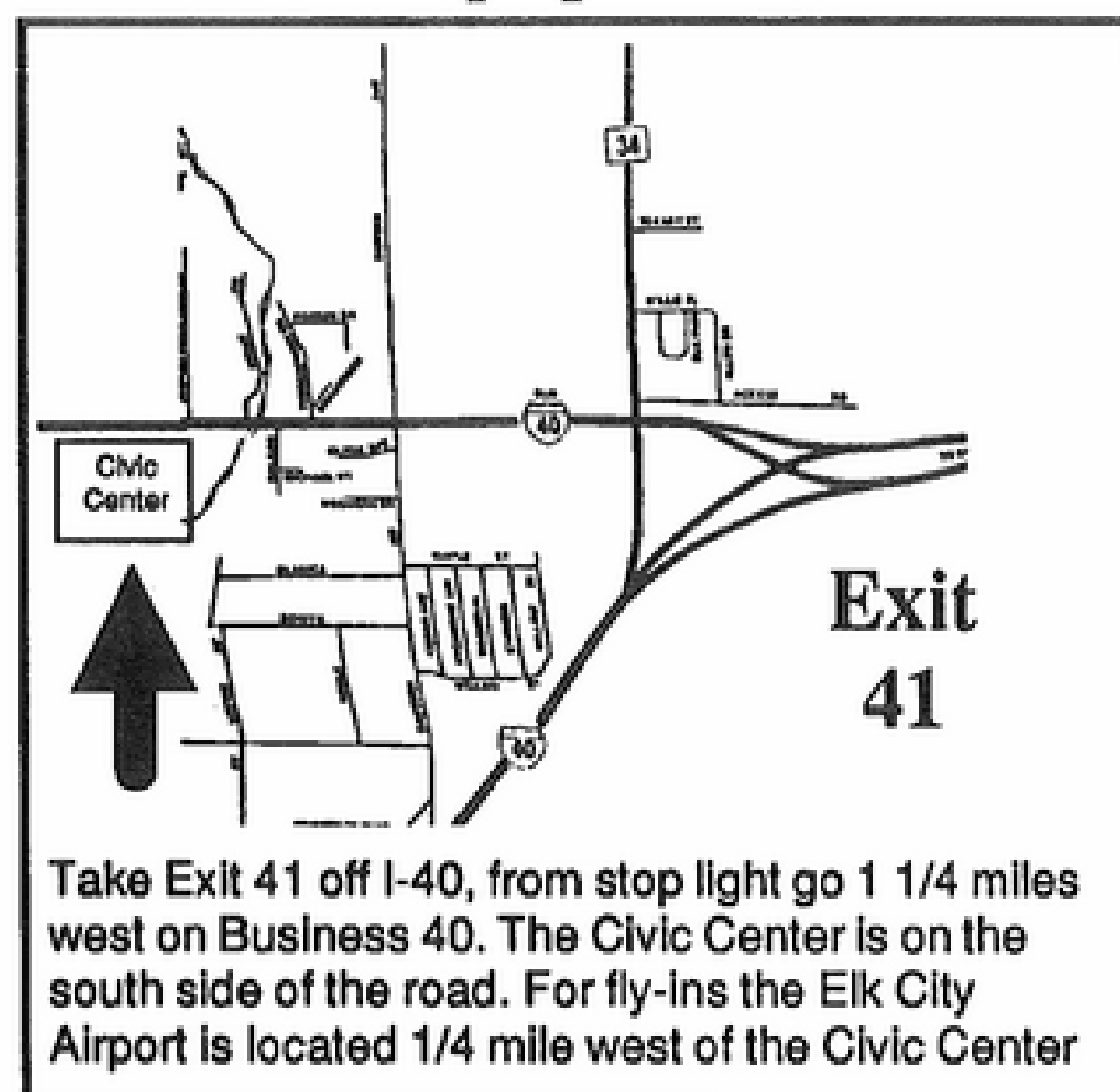
Name _____ Call _____

Address _____ Phone _____

City _____ State/Zip _____

Please reserve _____ Swap Meet tables at \$5 per table.
Make checks payable to WCOARC.

Mail to: Elk City Hamfest, P. O. Box 2023, Elk City, Ok 73648



Take Exit 41 off I-40, from stop light go 1 1/4 miles west on Business 40. The Civic Center is on the south side of the road. For fly-ins the Elk City Airport is located 1/4 mile west of the Civic Center



VHF Club NEWS

W5LOW

Elmer Goekler Memorial
Station

Minutes of February Meeting

Meeting was called to order at 12:02 p.m. by President Jack, WB5ZKZ, with 22 members and guests present. Treasurer Ellard, W5KE, gave his report, after which he was scolded by Joe, WA5ZNF, for making the first mistake he ever made in his life. For this, Ellard was awarded the Turkey of the Month Award.

Jack appointed Charlie, WA5JGU; Bob, W5HXL; and Gary, AA5ZS, as CORA representatives and appointed George, W5NTL, as an alternate.

Meeting adjourned at 12:25 p.m.

Joe, K5JB, Secretary

Happenings with OPRA

Rock & Roll has come to packet radio. Two 9600 baud nodes are now up and running in the Oklahoma City area. ROCK is a Kantronics Data Engine (DE) with G8BPQ firmware and a Tiny Two (in kiss mode) with ports on 145.01 (1200 bps), 446.775 (1200 bps), and 430.55 (9600 bps). ROLL is also DE with ports on 145.09 (1200 bps) and 430.55 (9600 bps).

"ROCK" is currently using a Johnson "PPL" UHF radio on the 9600 port. I have also used an Icom 471A for that port. Experimentation is proceeding using a GE MASTR II for 9600. "ROLL" is using Kantronics UHF "data radio" on 9600 port. If you are interested in how to connect these radios for 9600 send a packet note to me at my packet bulletin board address, WA5JRH @ WB5FWE.#OKC.OK.

There is a new The/Net node at Enid on 145.07. We hope to have it connected to the 9600 bps backbone soon. We have also acquired access to a good tower site near Eagle City (NW of Watonga) with existing antennas. Just need to get some equipment and it will provide a good path the northwest Oklahoma.

We are also working on an deal to have access to 22 (!) 400 ft tower sites throughout the state. Hope to have further info on this soon.

We are working on a frequency plan for the state backbone. We want to pay particular attention to the problem of

hidden transmitters in the system. This will require that several frequencies be used rather than a single backbone frequency for the state. Consideration must also be given to the frequencies being used by neighboring states. Also we are planning to link the ROSE network to the Net/ROM network at 9600 baud and also TEXNET if possible.

I have been attending ham club meetings to promote packet radio and OPRA. If anyone is interested in having a program at a club meeting just let me know.

Our MEMBERSHIP DRIVE has not really taken off yet. Come on you guys! OPRA needs your support so we can START to acquire equipment that is needed to improve the network. OPRA Membership is \$25 per year and may be sent to:

OPRA, PO BOX 20081,
Oklahoma City OK 73156
or call 405-722-0640 (Home)
405-755-5622 (work)

Or drop a note to my packet address (WA5JRH @ WB5FWE.#OKC.OK). If we let George do it, it will never get done. Hope to see you all at the Green Country Hamfest in Tulsa for our first meeting. 73 de Hank, WA5JRH @ WB5FWE.OK

Magnetics and Antennas

Jerry, KD5IS, came up with an interesting question related to antennas in magnetic fields. Here is an excerpt from his message to me:

Was reading about 9600 baud (whoops bps) packet in the Feb C&E and ran across the following: "...using magnetic mount antennas on their refrigerators."

Is there something I should know about this other than the fact that it usually results in a poor signal??

Thought maybe the magnet caused the refrigerator to become encapsulated in flux gaussses and absorb all the electromagnetic waves??

Could it also pull out all the iron from the stuff inside the refrigerator and cause a vitamin deficiency?

I wonder if the antenna manufacturer takes the polarity of the magnet with respect to the polarity of the antenna into account, "like poles repel". This would increase the radiation of the signal. I bet this is how my magnetic mount antenna gets 20dB of gain.....73,

de Jerry KD5IS

Hmm, sounds like a good question to me, Jerry. (That is what you say when you don't know the answer to a question.) I'll do like a politician and make a statement that has nothing to do with the question.

My comment about magnetic mount antenna on the refrigerator relates to a common misconception about power as it relates to packet radio. Unfortunately the link protocol we use in packet radio assumes that all stations can hear all other stations. Wrong assumption!

When you use a digipeater to "get out" on packet, your 1/4 watt to a magnetic mount simply becomes another source of interference to others using 1/4 watt radios on magnetic mount antennas. When the two of you are ready to transmit each TNC waits a random time interval then starts transmitting. If the two stations could hear each other the one that got beat to the punch would back off until the frequency was clear. Since the second station can't hear the first it goes ahead and launches a packet and jams the packet from the first station. This is what is called the "hidden transmitter effect". The theoretical probability of a packet making it on a fairly heavily loaded frequency is less than 14%.

Sure, I have 1/4 watt radios on indoor antennas, but not on my main stream packet station. When thunderstorms threaten I switch packet systems I want to keep operating to indoor antennas, understanding that the lowered performance is probably better than no performance. It is not a good idea to use this as a design goal though. Enough said! Joe, K5JB

FCC Mailing Address

Here is another one Jerry, KD5IS, fed me via the packet bulletin board circuit:

I thought this was a pretty cute response to ARRL Bul ARLB009:

Date: 05 Feb 92 13:03:12 C
From: W2USA@W2USA
To: HUMOR@ALLUSA
Subject: The FCC

Is nothing sacred? Years after his death the FCC is even taking on Abe Lincoln. Just this morning I saw a bulletin pronouncing the fact the FCC had a new "Gettysburg Address". The old one was good enough for me when I went to school but now the FCC has to get their 2 cents worth in. Before you know it, they'll attach a bill of rights to their morning constitution!! Bert

9600 BPS Modems

Jerry, KD5IS, noticed my habit of referring to data rate speeds in bits per second instead of bauds. The reason I use bps is because bauds is incorrect at higher baud rates where there is more than one bit per baud. On 1200 bps Bell 212 telephone modems, there are two bits per baud and the baud rate is actually 600 while the data rate is 1200 bits per second. These modems depend on phase shifts to convey data information.

However, in the 1200 and 9600 bps modems we are using for packet radio, the data rate and the baud rate happen to be the same. The 1200 bps modems modulate a normal voice FM radio by shifting between two tones fed to the microphone circuit to signify a change in data state, while the 9600 bps modems apply the modulated tone directly to the FM transmitter's modulator. The G3RUH modems we are using locally use digital methods to synthesize the modulating waveform. By using this method the resulting RF bandwidth can be carefully controlled so it doesn't exceed the receiver capability. The alternative 9600 bps modem was designed by K9NG. (They are used in TEXNET controllers, for example.) The advantage I saw in the G3RUH design was the almost total lack of concern about modem tuning. The K9NG modem requires careful tuning of its filters to make it work properly.

I looked through the schematics of the radios in my collection to find one that would be the easiest for my first experience at 9600 bps packet. The requirements are simple, but important. The transmitter has to have a frequency, rather than phase, modulator, and it has to be located somewhere in the frequency determination chain where it will not be affected by the phase lock loop of a synthesizer. Most of the Jap-track radios used the voltage controlled oscillator varicap diode for modulation so this was unsatisfactory.

One of my crystal controlled rigs was using a phase modulator. (These can be recognized by their location in the circuit, downstream of the oscillator, and consisting of a split path where a portion of the signal is modulated and added to a signal that is of a different phase.) PM causes FM to be modulating frequency dependent and can easily create excessive bandwidth.

In my case, finding suitable receiver demodulator circuits was simple. Every receiver I checked would have worked. They all either had the same

IC described in the 9600 bps literature, or they were standard discriminators. The requirement is that the discriminator provide an output from DC to no worse than -4 dB at 4.8kHz and -10 dB at 7.2kHz.

The radio I selected is a Yaesu FT-208R walkie talkie. The first thing I did was trace out the demodulator and discover that the connecting point already had a wire intended for the sub-audible tone decoder. I connected my shielded cable to that wire.

The modulator connecting point was a little more difficult to access. To even find it I had to unsolder a shield that completely covered the solder side of the transmitter board. Once I had done that, connected a piece of wire, and re-installed the shield, the rest was simple.

When connecting to both the modulator and the demodulator it is important to do it in such a way as to not disturb the circuits' functions. I used a resistor to isolate the modem cable from the modulator but connected the modem cable directly to the demodulator since it was a low impedance point.

I ran some tests with Steve, N5OWK and Hank, WA5JRH and the little critter took off and copied and sent packets as advertised. I estimate that it was copying 90% of the packets sent. One evening Steve sent an encyclopedia, or something, to J, KB0QJ, and as I watched I don't think it missed a packet for over 5 minutes. I have been unable to copy J's setup at my house. Steve and J are using the Gracilis setup and Hank was using the Kantronics Data Engine and a multi-mode radio for the test.

I don't know what my next step will be except maybe add the proper connections to my 2M radio on 146.415 so it can be used for experimenting at 9600. I haven't started working on the second modem yet. I got sidetracked by a second project -- making TCP/IP work over a ROSE network. Joe, K5JB

TCP/IP and ROSE

Aha! I knew I could do it! I often heard people say that you couldn't use TCP/IP over a ROSE network, but I didn't pay much attention because I didn't need to do that. I kind of assumed that if you made a circuit with a ROSE network it would pass whatever kind of information you wanted to pass. I discovered when I tried it that it indeed didn't work. What happened is this: TCP/IP, which is intended to operate at a bit lower protocol level than AX.25, puts a protocol identifier

(PID) into the place in the AX.25 header where such a thing is supposed to go. However, when an information frame is retransmitted by a ROSE switch, this PID is replaced by a "ROSE PID" during inter-ROSE linking. On the far end, the PID is replaced with one that means "No layer 3 protocol". When this frame is received by a station running TCP/IP, it is tossed to the mailbox thinking that it came from an uninformed source! Wrong!

Well, the solution was pretty simple, and I am amazed no one has used it before. (Maybe I don't know that it isn't supposed to be done.) I simply added the ability for the receiving station to recognize that a frame from a TCP/IP station known to use the ROSE network, coming from 2 to 4 digipeaters, and having a known ROSE switch's call in the last or next to last digipeater address field, probably is an IP frame. I just plug the IP PID into the header on the receive end.

Works like a champ! I am testing for undesirable side effects before I release the program. One thing that had me worried a little was that I started experiencing checksum errors in received frames. As it turned out, it was normal. When you connect to a ROSE switch it sends two information frames ("Not really connected" and "Now you are connected...") and when they are received by the IP layer with an IP PID, the program says, "What the hay? This frame is no good.", and registers the checksum error in the statistics table.

I initially tested the software by running it on two TCP/IP stations at my house, using my own ROSE switch, and then got J, KB0QJ; and Steve, N5OWK, involved in testing. I had to make a similar modification to Steve's NOS so we could both play ROSE. (NOS is a later TCP/IP program than the Model-A NET program that I run.) All seemed to be working fine so I will mail a couple of disks to unsuspecting suckers tomorrow to let them "Beta test" it.

On a final chuckle, I suspect that it was no accident that the ROSE code doesn't preserve the protocol because TCP/IP doesn't follow the ROSE author's "rules". When an IP circuit is active, a "users" report on the ROSE switch says, "*** Unknown Protocol ID CC", coming from the offending stations. Funny thing is that a lot of the ROSE code is cribbed from the TCP/IP program, and "CC" is the well known IP protocol byte.

More next month - Dayton coming up!
Joe, K5JB



Hi, this is Jim N5OHL with all the latest on what has been going on with EARS.

Participation in the Monday EARS Information Net has been great with more than 20 stations checking lately. Larry N5IXV has been reading the ARRL bulletins that he copies from HF, thanks Larry! Opal KB5BUK is always there with the birthday announcements - thanks Opal. Listen for club announcements every Monday night at 8 PM on 147.135 Mhz.

Would you like to be able to see a parade from the best viewpoint? Then here is your chance. The club is once again handling the staging of the St. Patrick's Day Parade on Saturday March 14. Mike KB5BIX is co-ordinating the event, so give him your name as soon as possible if you want to help out.

I really enjoyed the weather spotters/civil defense meeting on February 20 at the Edmond EOC. We discussed some of the changes and improvements that will be put into effect during the approaching storm season. We also viewed the fantastic video of the tornadoes that swept through Kansas last April 26. You may remember the camera crew that tried to out-run a tornado in their car. They had to stop and take cover under an overpass. Well, we saw what was shown on TV last year plus the complete un-edited version of the tape. It showed a pick-up truck that really got pushed around on the highway just before the big twister came right over them. Two people in the truck were killed. This certainly underlines how important it is to be very careful when we are out storm spotting. Never try to stay in your car to out-run a twister. Get out and take cover.

Donna KA5YSF has taken over the scholarship committee again. She has applications for anyone that is interested. To apply you must be an Oklahoma resident that is taking at least 3/4 of a full load (about 9 hours).

I have been talking with Joe N6CL about his Quads. I helped to install a 10-15-20 meter two element cubic quad several months ago. Joe and Carol K5CPZ have been very pleased with the antenna performance. It has excellent gain and good front-to-back ratio. Joe said that he was so pleased with this quad that he designed and built his own 5-element

quad for six meters. He put it up on a pole and turned the rig on just in time to work an Alaskan station. Now, how long did you say that the boom needs to be for that 160-meter quad that you are going to build Joe?

I think that we may have broke the record for the biggest and best turnout for any EARS dinner meeting. It was a great success with over 55 hams showing up at Garfield's in Edmond on February 22nd. A big thanks goes out to Clara K05UG for heading up the calling committee.

DX has been very good lately. Both Larry N5IXV and myself are always trying to pick up new ones. I got a card from D44AC - Cape Verde Island near NW Africa and Larry has also worked some new DX stations. The 10 meter band has been open to Europe during the mornings and the Pacific region just after sunset. Both 15 and 20 are good DX bands just about at any time. You can also work Japan on 40 meters if you don't mind getting up before sunrise. Larry and I would like to hear from you if you are also into the practice of chasing DX. Several hams from Oklahoma City Area are going on a DXpedition to the island of Palau in the south Pacific. Give me a buzz if you would like to work a new one. In addition, another ham that I know will be operating a station from Guantanamo Bay Cuba over the next couple of months.

It is that time again - yes your annual dues are now due. So please send them in as soon as possible to Ed Granger KB5DZU.

Our next board meeting will be on March 11th. The next club business meeting will be on Sunday March 15th at St. John's Church in Edmond. See you there! 73, JIM N5OHL

Bats are very beneficial animals. Purple Martins eat about 1000 mosquitos a day. A big brown bat eats about 3000 to 7000 mosquitos a night. Bat's excrement is a rich and expensive fertilizer.

FREE STUFF The ARRL Lab just got its copy of the Wireman catalog. Wow! The pricing information for their wire is almost an afterthought. It has more wire and cable data and information than the ARRL Handbook! If you send \$1.00 to Certified Communications, 261 Pittman Rd., Landrum, SC 29356, (803)-895-4195, they will send you their latest catalog, plus a coupon worth up to \$3.00 on your first order. I'm sure they hope you will order some of their wire; they have an interesting approach to catalog making that will ensure that you never throw their catalog away. I have seen the catalog; it is worth the buck!

GREAT PLAINS A.R.C.

USNGN Repeater 146.13/73

The Great Plains Amateur Radio Clubs January meeting was held at the QTH of Andy N5LRR and Sandra N5OKF. Members in attendance were: Lewis W5KFK, Freida N5EOX, Rod WB5OVT, Lois N5JGQ, Keith N5TBX, Wendle WA5PLW,, Andy N5LRR, Bob WB0GAX, Wes N5SBL, Phil N5QCN, and Larry AA5YV. I hope that I didn't leave anyone out.

The club discussed the upcoming Mooreland Hamfest. It will be held in the same building as last year. The date for it will be April 4th and 5th. VE testing will be held on Saturday morning. There will be a flyer in later issues of the *Collector & Emitter*.

We elected three new board members, they are: Keith N5TBX, Freida N5EOX, and Kent N5HID. (**Kent, I bet you make the next meeting to defend yourself.**)

The February meeting will be held at Lewis and Freida's QTH. The February meetings normally have a larger turn-out than the others. I know that some of you are wanting to know why, and the others already know. The reason is FOOD, that's right Lewis and Freida are having their Fish-Fry/Club meeting. (Listed in order according to priority.)

That just about wraps things up for now. Remember to make plans for the Hamfest.

See you next month,
Phil N5QCN

Expectant mother bats join together in a "nursery", where hundreds or thousands gather to raise their young.

Kenwood announces offer. The Kenwood Corporation has launched an ambitious program to encourage more young people to become amateurs. In a letter to more than 2,000 ARRL-affiliated clubs, Kenwood has offered free of charge ten copies of the ARRL publication, Now You're Talking, in addition to an ARRL Novice/Technician Instructor's Guide and a copy of Kenwood's Ham Windows software, in return for a club's commitment to sponsor a licensing class for junior and senior high school age students. The program, called "Kenwood KIDS," will award a \$25. Kenwood gift certificate to each new licensee. Each sponsoring club will receive 10 \$25. gift certificates from Kenwood. Clubs sponsoring at least one group of ten students will be in a drawing for a model TS-950SD transceiver. (From The ARRL Letter,



FLASH

ANNOUNCING THE GREAT PLAINS AMATEUR RADIO CLUB'S
ANNUAL

EYEBALL QSO

and

SWAPFEST

MOORELAND, OKLA.

Saturday, April 4, 1992 ***** 12:00 PM till ???

Sunday, April 5, 1992 ***** 9:00 AM till ???

VE Testing Saturday starting at 2:00 PM

DIRECTIONS: North on Main Street. Cross the tracks. Turn West and go 3 blocks to city park. Shuttle service from Mooreland Airport.

\$3.00 Admission Fee
Covers both days
Kids Free

Hamburger Fry, Saturday night at 6:30 PM
Covered dish lunch, Sunday at 12:30 PM

Dealers Present
No charge for tables
No prizes
20+ tables reserved

Talk in
146.52
146.13/73
147.72/12

Two motels
Self-contained Camper
Parking
6 local churches

NZ5T
Bart Lawson
994-5940

WG5Z
Gerald Bowman
994-5453

WBOGAX
Bob Bayless
254-3561

Bring your family, covered dish, your own place settings and GOODIES TO SWAP!

CORA MINUTES

26 NOV 91

The Meeting was Called to Order at 7:36 pm with President Frank AA5GI in the Chair and the following Directors representing 8 of the 16 member clubs present :

ACARC - Tom Mangham K5LDI	WheatStraw - Joe Lynch N6CL
MORI - Ellard W Foster W5KE	OCAPA - Scott Walsh N5NYS
Toy Graham K1STZ	Baron Bieber N5PQK
76ERS - Kathy DeGraffenreid AA5RU	EARS - Linda Richardson N5OJP
Jim Buswell N5BEQ	Jim Richardson N5OHL
SCARS - Donald Schader K15TP	EARC - Phil Wolfenbarger N5HIP

The Minutes of the October 1991 Meeting and the Report of the Treasury were accepted as distributed .

REPORTS : C&E : In his absence word was relayed to the Board that Editor Joe WA5ZNF would process the next issue though it may be a day or so later than usual since he and the Circulation Manager missed their usual connection ;

VEC : Phil N5HIP reports the number of applicants seems to have leveled off : last session had 39 tested with about 50% passing .

HAM HOLIDAY #19 (1992)

PUBLICITY - Baron N5PQK has been in contact with both City and State Convention and Tourism Bureaus who appear eager to assist us since 1992 will be heavily promoted as the "Year of The Indian" and he is awaiting their handouts to see what the logo looks like to incorporate it with ours ; he has advised them we will attempt the National ARRL Convention in 1995 ;

FACILITY - Frank AA5GI has contracted the Made In Oklahoma (MIO) Building for 24 thru 26 July 1992 and "penciled-in" CORA's request for the Hobbies , Arts and Crafts (HAC) , Modern Living (ML) and Made In Oklahoma (MIO) buildings on the Oklahoma State Fairgrounds for Ham Holiday(HH) #20 for 24-25 Jul 1993 ; the Days Inn , 2801 NW 39 , offers us \$35/day room rates for up to four occupants per room and a complimentary room for CORA's use as a "Convention Headquarters ;" Lincoln Plaza has expressed an interest in assisting CORA with a National Convention in 1995 ;

DEALERS/AWARDS - Frank AA5GI would like to have someone or more replace him this term but plans to make first contacts before year's end anyway ;

PRE-REGISTRATION - Jerry N5AUH and Tom K5LDI are awaiting input if there is to be a ticket design change ;

REGISTRATION - Chairman is Steve KG5IP ; no report/er/s ;

TALK-IN - no report/er/s ;

PROGRAMS - Chairman is Jack AA5VU ; no report/er/s ;

NON-TECHNICAL PROGRAMS / BANQUET - Linda N5OJP reports *honoraria* for some of the presenters may be provided with the consent of the Board within the Budget ; would like to give away a "door prize" of some kind limited to Banquet attendees ; meal may be chicken and "fixin's" and probably the same place as last year ;

BINGO - Tom K5LDI has the equipment ;

FLEA MARKET - Don K15TP suggests a two-day table plan for one price per table and will work up the layout with Frank AA5GI ;

SECURITY/SCHOLARSHIP FUNDING - Phil N5HIP would like to give the Security Crew a raise if possible , especially since the space to be secured has increased ; would like to award two scholarships of \$500 each ;

BREAKFAST - QCWA appears enamored with the Days Inn and may repeat .

In the form of New Business , it was decided that CORA will continue to attempt "Affiliated" status with The American Radio Relay League (ARRL) especially to qualify for Convention Insurance ; when the "Year of The Indian" logo is received Baron N5PQK will attempt to incorporate it into a year-specific tee-shirt design .

The next Meeting is scheduled for 28 January 1992 , same time and place .

This Meeting was adjourned at 9:08 pm .

Secretary ,
N5BEQ , Jim

Central Oklahoma Radio Amateurs, Inc.

MINUTES

28 JAN 92

The Meeting was Called to Order at 7:33 pm with President Frank AA5GI in the Chair and the following Directors representing 6 of the 14 member clubs present :

ACARC - Tom Mangham K5LDI	MORI - Toy Graham K15TZ
Doug Teachman W0DXA	OCAPA - Baron Bieber N5PQK
Chris Everett KB5GGY	EARS - Jim Richardson N5OHL
Jack Conley AA5VU	SCARS - Don Schader K15TP
76ERS - Jerry Sproul N5AUH	C&E MNG ED - Joe Harding WA5ZNF
Jim Buswell N5BEQ	

Visiting were Ed Price KA8NBG, Tim Hanna N5USM and Ryan Ward N5XAX.

The Minutes of the November 1991 Meeting and the Report of the Treasury were accepted as distributed.

REPORTS : C&E : Editor Joe WA5ZNF read the letter from COCO announcing its withdrawal from CORA :

VEC : Jim N5OHL reports lots of No-Code applicants and 1 or 2 code attempts with few passing it.

In the manner of Old Business, On Motion by Joe WA5ZNF and Second by Don K15TP it was agreed without opposition to drop the OUARC from Supporting Membership in CORA and release the Club from its outstanding debt. The Secretary was directed to so inform the Club by official statement.

It was announced that the 1991 registration stub drawn for a free Pre-Registration to Ham Holiday 1992 was #1003 belonging to Glen Franklin K5LDL.

HAM HOLIDAY #19 {1992}

PUBLICITY - Baron N5PQK circulated samples of the logo for tickets, tee-shirts and stationery and continued the discussion about sponsorship;

FACILITY - Frank AA5GI has contracted the Made In Oklahoma (MIO) building for 24 thru 26 July 1992 and "pencilled-in" CORA's request for the Hobbies, Arts and Crafts (HAC), Modern Living (ML) and Made In Oklahoma (MIO) buildings on the Oklahoma State Fairgrounds for Ham Holiday(HH) #20 for 23-25 Jul 1993; the Days Inn, 2801 NW 39, offers us \$35/day room rates for up to four occupants per room and a complimentary room for CORA's use as a "Convention Headquarters";

DEALERS/AWARDS - Frank AA5GI would like to give away HF rigs for Pre-Registration and Grand Awards; will provide a door prize for Banquet attendants;

PRE-REGISTRATION - Jerry N5AUH announced the deadline for mail return will be 12 July, cutoff date will be 22 July, price will again be \$6.00 per person;

REGISTRATION - Chairman Steve KG5IP reports thru Jim N5OHL that EARS will again chair this chore and eagerly requests other clubs to assist; admission \$8.00;

TALK-IN - probably as in the past but as yet is not confirmed;

PROGRAMS - Jack AA5VU reports plans for presentations by the groups as last year;

NON-TECHNICAL PROGRAMS / BANQUET - Chairman Linda N5OJP reports thru Jim N5OHL "nothing new" for this year but new volunteers have appeared;

BINGO - Tom K5LDI has the equipment and new volunteers from ACARC;

BANQUET - the Lions' Club is reserved as last year. Jim N5OHL and Tom K5LDI will verify the charges;

FLEA MARKET - Don K15TP states there will be LARGE SIGNS with directions this year;

SECURITY/SCHOLARSHIP FUNDING - raise still possible; will sell tee-shirts and raffle a radio donated by the Oklahoma Communication Center as in the past but may drop the \$2-per-single-ticket offer in favor of \$5/3-multiple-ticket sales only;

BREAKFAST - QCWA appears enamored with the Days Inn and is expected to repeat.

In the form of New Business, CORA will continue to research "Affiliated" status with The American Radio Relay League (ARRL) especially to qualify for Convention Liability Insurance but also year-round coverage at less cost.

The next Meeting is scheduled for 25 February 1992, same time and place.

This Meeting was adjourned at 9:39 pm.

Secretary,
N5BEQ, Jim.

GRAND AND OTHER AWARDS !!
PRE-REGISTRATION & SCHOLARSHIP AWARDS !!
HOURLY AWARDS, TOO !!
EXHIBITS, PROGRAMS AND FORUMS !!
NEW AND USED DEALERS !!
GIGANTIC FLEA MARKET !!

PRE-REGISTER NOW!

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 \$8 AT THE DOOR!**

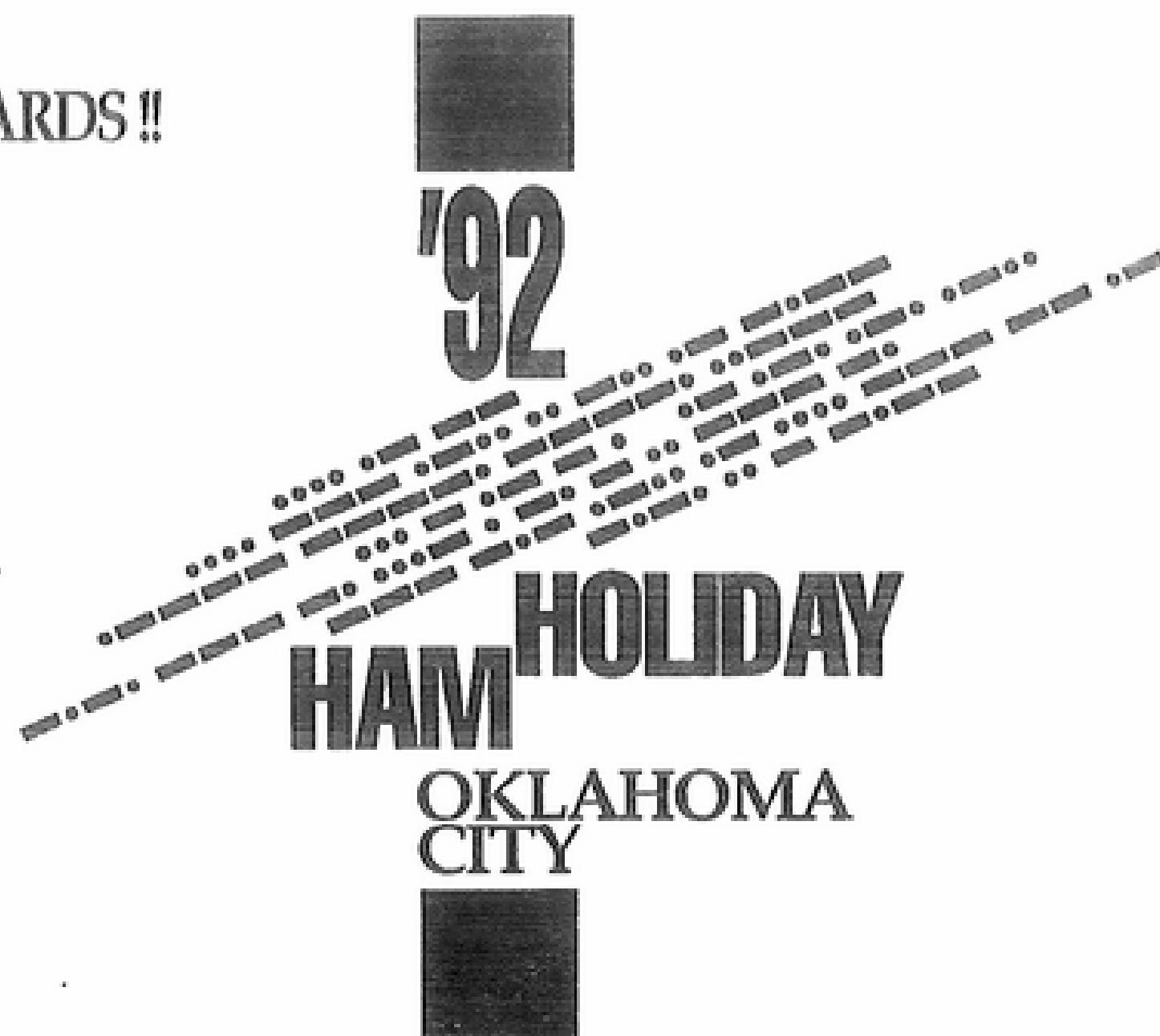
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 \$7 AT THE DOOR!**

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 EVEN'G"
 DINNER!**

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RF FOXHUNT.
OKLAHOMA QRP.
NATIONAL WEATHER SERVICE.
ARRL FORUM.
**OTHER TECHNICAL &
 NON-TECHNICAL PROGRAMS.**

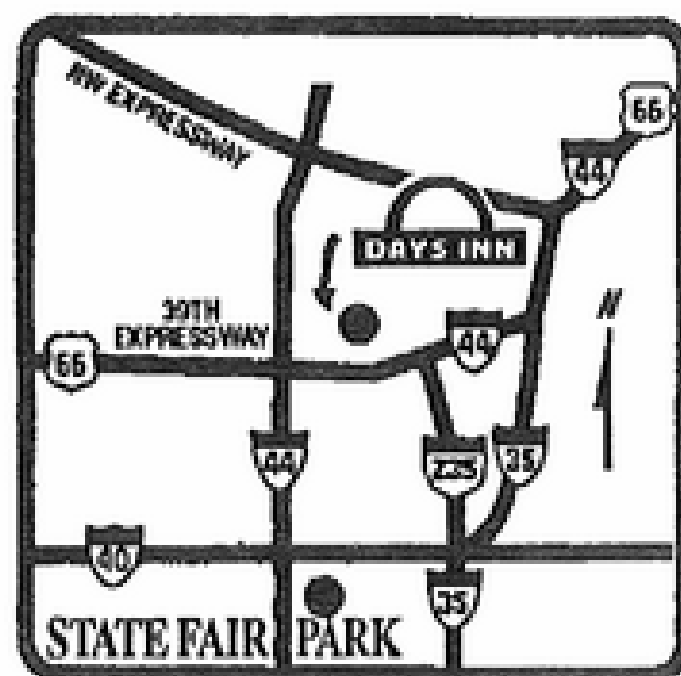
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 DINNER**
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PRE-REGISTRATION
FORM

NAME (Last, First) _____ **CALL** _____
ADDRESS _____
CITY, STATE _____ **ZIP** _____

ADDITIONAL REGISTRATIONS _____
(Name & Call Sign) _____

Reserve _____	PRE-REGISTRATION TICKET(S)	@ \$6.00 ea.	\$ _____
Reserve _____	FLEA MARKET TABLES	@ \$5.00 ea.	\$ _____
Reserve _____	"AN OKLAHOMA SATURDAY EVEN'G" DINNER	@ \$8.50 ea.	\$ _____
Reserve _____	SCHOLARSHIP AWARD PRIZE TICKETS	@ \$2.00 ea.	\$ _____
		or 3 for \$5.00	\$ _____

Must be postmarked by Tuesday, July 21, 1991.
Pre-Registration Ticket(s) will be mailed to you if received by Saturday, July 11, 1991.
Send Pre-Registration Form with check or money order to:

TOTAL \$ _____

HAM HOLIDAY 1992 • P.O. BOX 95942 • OKLAHOMA CITY, OK 73143-5942

CORA



*** CENTRAL OKLAHOMA ARES DISTRICT ***

Those interested in public service in Amateur Radio can become involved by joining "ARES" Amateur Radio Emergency Service or "RACES" Radio Amateur Civil Emergency Service. The ideal way is to join both.

ARES is the ARRL field component for emergency service on a section level. The structure being SECTION MGR.(SM), SECTION EMERGENCY COORDINATOR (SEC), DISTRICT EMERGENCY COORDINATOR (DEC), EMERGENCY COORDINATOR (EC) county level, their assistants (AEC), and ARES members.

ARES members can have as many nets and practice sessions as needed per month or year. Any amateur can check into an ARES exercise and does not have to be a member of ARES or the ARRL. Appointees from the EC level up must be ARRL members.

RACES however is sponsored by the federal government (FEMA) and is under the jurisdiction of the FCC. RACES works closely with the local, county, and state civil defense agencies.

Membership in RACES is restricted to those whose application has been approved and signed by their local civil defense director. They have regular scheduled nets and exercises and are limited to one hour per week and 2 periods that do not exceed 72 hours per year.

Only RACES members can participate in RACES activities. Until recently only amateurs belonging to RACES would be allowed to operate during a National Emergency declared by the President. Due to modern targeting methods, the danger of enemy missiles homing in on our transmissions is not very great. So now since December 11 1990 we won't have to automatically close down but be obliged to observe whatever orders and instructions the FCC may issue.

The number of Amateurs volunteering for this type of public service is not great enough to support 2 separate groups, ARES and RACES, so dual membership will allow more time for training and participation as ARES members and they can change hats so to speak when the time arrives to activate RACES.

RACES is authorized only by the FCC after it is requested by a local, state or federal official, and is strictly limited to official civil defense activities in the event of an emergency communication situation.

If you would care to know more about these activities come visit the ARES/RACES station at the Salvation Army Division Headquarters, NW 50 & PENN., Okla. City, OK. We conduct nets and OPEN HOUSE from 8am to 11am each 2nd Saturday of the month. Free coffee and cookies.

The CENTRAL OKLA. ARES NET is held each thurs. eve. at 8pm on 146.22/82. The statewide RACES net meets each Sunday morning on 3.997 mhz. at 7am. The statewide ARES net is the OKLA. PHONE EMERGENCY NET (OPEN) and meets each Sunday morning on 3.900 mhz. at 8am.

A new statewide AMTOR net under ARES and RACES supervision will start on the 2nd. Saturday at 9am right after the Salvation Army NET on 7.065 mhz.

Any one interested in any of these activities can pick up information at Dolph Grolock's office in the Salvation Army headquarters or contact Jim Jones, K5PER, ARES Emergency Coordinator for Okla. County. Phone: (405)634-5235.

73 N5FM, DEC.



League Continues Search for Solutions To Loss of Amateur Spectrum at 220 MHz

The ARRL has stood firm in its belief in the need for a small segment on the 222-MHz band for weak-signal work. On January 28 the League so indicated in its reply to comments filed in response to its Petition for Rule Making, RM-7869. The FCC received 68 comments on the League's petition.

The League, while taking into account comments on its petition filed by both repeater users and groups and by weak-signal operators, and agreeing with their shared opinion that the problem was caused by amateurs' loss in August 1991 of 2 MHz of the band to the land mobile service, continued to support its original argument that the need for a weak-signal segment is both desirable and necessary, and that such a segment cannot be enforced through voluntary agreements or formalized band-planning by amateurs.

Here is a point-by-point summary of the League's reply comments:

- Comments in response to the League's original petition were largely "brief and without significant substantial argument," although both sides feel strongly about the matter. Almost without exception comments opposed to the weak-signal subband came from Southern California; those in support came from other parts of the U.S.

- Comments of repeater owners and users saw no need for a mandated subband because band-planning ordinarily is done by local or regional groups. The repeater commenters allege that severe crowding in the 222-225 MHz band, at least in Southern California, makes a 150-kHz subband untenable, displacing some 15-17 repeaters in that range.

- Weak-signal users commented that the loss in August 1991 of 220-222 MHz to land mobile interests most severely affected them, rather than repeater users. They claim that band planners have been partial to repeater owners and users and have been unwilling to accommodate other types of spectrum users.

- The need for a weak-signal subband in each VHF and UHF amateur band for

continuing experimental work is a given; the issues are "how best to implement (such a) segment in a crowded band, and how large that segment should be."

- The League's comments commend amateurs generally, and in Southern California in particular, for adjusting to the situation created by the loss of two megahertz of spectrum last August.

- Parties on both sides, the League says, appear to agree on the need for a weak-signal subband, and that there is fundamental incompatibility between weak-signal and repeater and auxiliary operations. Even the comments of the 220 MHz Spectrum Management Association of Southern California (220 SMA) do not object to such a segment, as long as it is done locally, rather than by regulation.

- The League believes that local coordination processes ordinarily work adequately and that, despite some comments in this proceeding to the contrary, coordinators will *not* "act parochially to the detriment of weak-signal users." Any entity that ignored the interests of non-repeater users would, by definition, *not be* a coordinator.

- But in this instance voluntary agreement is not sufficient in determining local weak-signal subbands for the same reason the FCC has created such subbands elsewhere in the spectrum — because the coordinating body has no enforcement authority. Coordinators cannot order off the air uncoordinated repeaters operating in a voluntary weak-signal subband. "The work of the coordinators is necessary, but not sufficient, to protect weak-signal users from interference," the League said.

- Given that a 222-MHz weak-signal subband uniform throughout the country is necessary, there still is disagreement about the size needed for such a subband at 222 MHz. One-megahertz subbands for non-repeater, non-auxiliary use have long existed on the 50- and 144-MHz bands, and five megahertz are set aside at 420 MHz. Before the loss of 220-222 MHz, weak-signal users had de facto use of that entire range, essentially [free of] repeater

operations, or "at least 500 kHz by rule."

Thus, the League's request for 150 kHz at 222 MHz seemed a reasonable starting point. "The League suggests that the size of the subband be the subject of comment in response to a Notice of Proposed Rulemaking based on the League's petition, and that "the input of local coordinating entities be weighed heavily in the final determination of the appropriate size of the subband."



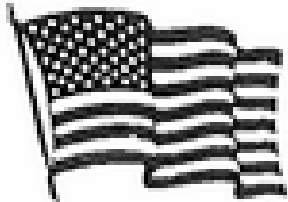

- "The League absolutely agrees with all commenters that there is not really a good solution to the problem created by the Commission when it reallocated the 220-222 MHz band. It imposed a serious hardship on the Amateur Radio Service, as the League said it would," the League's comments said.

According to other commenters, several repeaters in Southern California now operating at 222.000-222.150 may have to cease operation if the subband sought by the League is created. That would be an unfortunate result, which perhaps could be avoided if a smaller subband than that suggested by the League is implemented.

"No true radio amateur wishes to affirmatively displace another from a frequency band, and it is believed that through the notice and comment process, the amateur community will develop a consensus as to the proper size of the subband to minimize the effect on repeaters and auxiliary stations," the League said.

The League believes firmly, however, that some exclusive segment of the band should be set aside to protect the legitimate operating interests of weak-signal users, and that the size of this segment can be agreed on by cooperative dialogue, even in Southern California. Weak signal users "can and should reasonably expect other amateurs to accommodate them, but only to the extent that they can justify the amount sought to be set aside for non-repeater, non-auxiliary operation."

The League concluded its reply comments by urging the Commission to promptly issue a Notice of Proposed Rule Making in this matter.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1 GREAT PLAINS	2	3 M O R I	4	5 AERONAUTICAL CENTER ARC	6	7
8 WHEAT STRAW	9 EDMOND CLUB	10 BICENTENNIAL (76ers)ARC	11	12 ALTUS ASSOCIATION CIMMARON ARS	13	14 SCARS
15 E A R S	16 VE TESTS 6:00 PM SALVATION ARMY 50 & PENN	17 AUTO PATCH 	18	19	20	21 V H F VE TESTING Every 3rd Sat. 0900 Rose State Math & Science Bldg.
22	23	24 C O R A 7:00 PM SALVATION ARMY 50 & PENN	25 	26	27	28
29 	30	31				

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413 NE 38TH Terrace

528-6467

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