
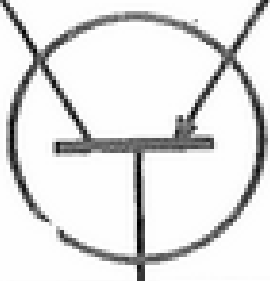


CENTRAL OKLAHOMA RADIO AMATEURS
COLLECTOR AND EMITTER

50¢

Volume 8 APRIL 1982 Number 87

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First Scoop on HAM HOLIDAY'82: Triple-Header Fun (See pp. 13-14)

Three hamfests for the price of one: C.O.R.A.'s annual HAM HOLIDAY, plus the ARRL State Convention, plus a Computerfest combine to make this year's event bigger and better than ever.

We are incorporating the "Computer Craze" this year for those who are interested in this facet of amateur radio. It might even spark an interest in those who never thought anything about it before.

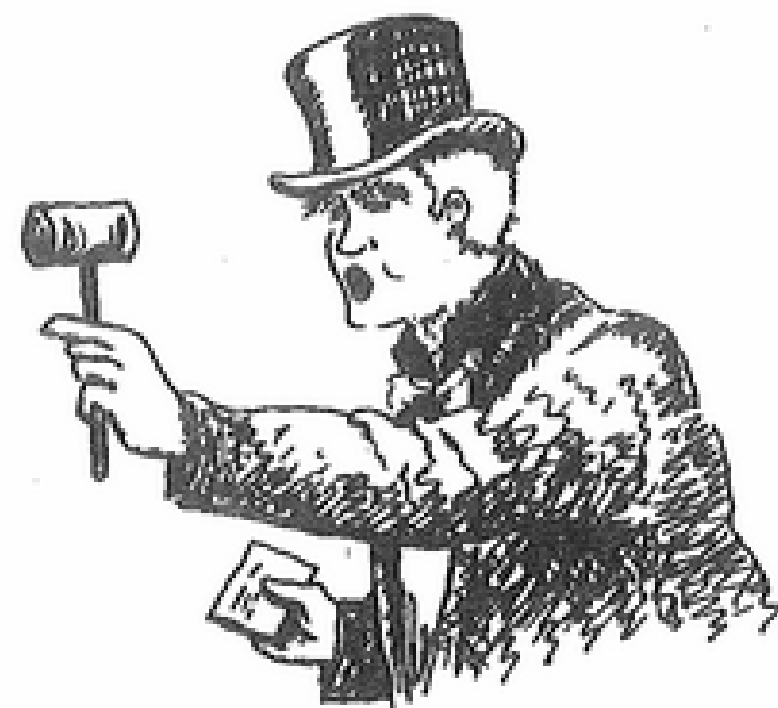
Central Oklahoma Radio Amateurs are proud to welcome the American Radio Relay League for their annual Oklahoma State Convention to be held in conjunction with HAM HOLIDAY '82. Here's the chance for all you ARRL members to get in on some official business of the League.

This is the ninth year of HAM HOLIDAY, and we are pleased with our growth from a mere 350 in attendance the first year to over 900 in pre-registration alone last year. We have become one of the best hamfests in the country, and we don't have to travel to Dayton for it—it's right here in the middle of Oklahoma!

PRE-REGISTER NOW FOR H H '82 (Use Special Form Inside)

July 23, 24, 25, 1982. Write those dates on your calendar now. Save that weekend for the best family hamfest ever.

Now clip out the special pre-registration form inside this issue, and mail it in right away with your check. It's your guarantee to be eligible for lots of great fun at the Myriad Convention Center this summer when HAM HOLIDAY time comes around. You'll be glad you pre-registered early, and so will CORA!



AUCTION APRIL 20

At last someone is finally sponsoring another great auction for the amateur radio community. The Autopatch Club (otherwise known as OCAPA, or the 22-82 bunch) invites everyone to our April 20th meeting for an old fashioned auction. Bill (W5JYT), is everyone's favorite ham auctioneer, so we all know it will be a good time.

Start putting aside your best used-but-idle equipment: this is your best opportunity to sell it, and maybe justify buying some other little goodie.

You may establish a minimum selling price for your best stuff if you wish, or just donate your junk to the auction and enjoy the fun! The club's commission is only 10% of each sale.

We will be drawing door prizes throughout the evening, and there will be plenty of jokes and good times as you see who ends up with what. Remember how it used to be?

So plan now for next month's OLD TIME AUCTION. Our meetings are held at 7:30 at the Oklahoma City Fire Department Training Center on Portland between 10th and Reno.

Bring a Friend!
Share the
GOOD TIMES

CLUB EDITORS & CONTRIBUTORS NOTICE

EDIT NIGHT (Paste up) of C&E will be changed to the **FOURTH MONDAY** of each month starting with the next (May) issue of C&E. All clubs will have met by then and have a chance to get their contribution and minutes in while they are still warm. Then on the next night CORA meets and an update of its action can be included, once again, while it is hot. Copy will go to the printer Wednesday morning, I will pick them up Friday and be at the Red Cross Building by 6:30 pm and ready for about four or five people to help put labels on and get it to the post office **BEFORE 9:00 pm**. You can help by just volunteering at the CORA meeting or volunteer for four of your club members and have them there by 6:30.

The June issue (May 24) will be the special Ham Holiday issue and will go to every ham of record on Oklahoma. It will be a big issue and will require extra help.

November & December edit dates will be one week earlier due to the holidays. (November 15 and December 13).

Just a reminder: Column width is 4 5/8". IF you don't have "blue lines" handy use plain typing paper, it will be "fitted".

Copy to be to me at 1020 Arthur Dr, Midwest City OK, 73110 in reproducible form by Monday noon or brought to the Red Cross building (back door), 10th & Hudson OKC. Forms will close at 8:00 pm.

Joe, WA5ZNF. Managing Editor

GREAT PLAINS A.R.C.

W5HGH Repeater 146. 13/73

EDITOR: Carla Tice, WB8QGW

Club met with 21 members and guests present. With our new and renewed members the club total now stands at 43! Pretty good for the forgotten corner of the state.

The weather seminar has been rescheduled for April 5. It will be at 7:30 in the E.O.C room of the Woodward County Court House. The speaker will be Neal Marchbanks. The seminar is scheduled for Buffalo on April 6.

Work is under way for the JayCee Home Show In Woodward May 14 and 15. The club will again have a booth set up. Gerald N5CCV has received a display packet from ARRL which will be a big help.

We had six people upgrade during the recent trip to Tulsa. They are; Jay Ladd WD5BPA, technician, Joan Ladd KA5FKW technician, Darrell Tibbett KA5LTX technician, Gerry Ford KA5KAG general, Nolan Spreier KA0KEK general, and Bill Wyatt N5CMW advanced. Congratulations go to these people and also to their teachers Bill N5CMW and Gerald N5CCV for a class well taught! There's plans for more upgrading in the near future. So listen for the new upgrade call as they come in and news for more tickets!!

The NW Oklahoma Eyeball QSO and covered dish dinner has been tentatively changed to May 2 in the Mooreland FFA building. It is growing by leaps and bounds. There are plans for swap tables to be set up. Bring your family, a covered dish, your own table settings, goodies to swap and join us for a day of fun. The day will start at 9:00 A.M. with dinner at 1:30. See you there!

73 Carla WB8QGW

Can you wear

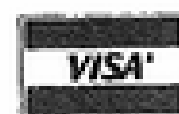
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Managing Editor: Joe Harding, WA5ZNF 737-1044

Circulation Mgr. Bob Graham, WB5NSV 677-8685

CENTRAL OKLAHOMA RADIO AMATEURS, INC.

MEETS: 7:30 pm Fourth Tuesday (Except Dec.) Red Cross, Oklahoma City.

PR AD1S George Adkins 722-6195
VP WD5JNT Ted Van Laningham 262-1675
Se N5CIJ Frank Yohe 324-0772
Tr K5GGL George Maschino 263-7614

1 AERONAUTICAL CENTER ARC

MEETS: 8:00 pm First Friday at Flight Standards Bldg., FAA Aeronautical Center

PR AA00 Robby Runyon 373-1818
VP N5ABL Holly Holcomb 799-2539
Se WB5UHW Jim Seignious 751-6698
Tr K5RJR Larry Vorheis 789-9629
EDITOR: Bob Graham, WB5NSV 677-8685

2 OKLAHOMA CENTRAL VHF CLUB

MEETS: 8:00 pm Third Friday, Red Cross Bldg., 10th & Hudson, Okla City

PR W5VCJ "Steve" Stevens 341-8486
VP WD5IRB Ralph Bartow 521-8330
Se K5JB Joe Buswell 732-0676
Tr W5KE Ellard Foster 789-6702
EDITOR: Joe Buswell, K5JB 732-0676

3 MID-OKLAHOMA REPEATOR, INC.

MEETS: 8:00 pm First Tuesday, Okla City EOC, 4600 N Eastern

PR KC5HD John Clement 943-2467
VP W5HPR Don McDown 732-6749
Se KA5ERZ Connie Boland 348-0123
Tr W5KOZ Sid Gerber 737-1050
EDITOR:

4 OKLAHOMA CITY AUTOPATCH ASSOCIATION

MEETS: 7:30 pm Third Tuesday, Okla City Fire Dept Training Center, N. Portland

PR N5IH Henry Israel 722-3848
VP AD1S George Adkins 722-6195
Se KA5BJS Judy Macdonald 672-4947
Tr K5GL Guy Liebmann 787-9545
EDITOR: Henry Israel, N5IH 722-3848

5 OKLAHOMA UNIVERSITY AMATEUR RADIO CLUB

MEETS: 7:00 pm Second Tuesday 119 Wilson Center, 1334 S Jenkins.

PR KA5COI Peter Richeson 329-3217
VP KA5LZN Greg Smith 325-2418
S/T WA2YCA Mike North 325-5731

EDITOR: Greg Smith, KA5LZN 325-2418

6 ALTUS AREA AMATEUR RADIO ASSOCIATION

MEETS: 7:30 pm Second Thursday North Main Fire Station (CD)

PR WB5MJS Charles Smith 477-1098
VP S/T WA5CBF Loren Simms 477-0921

EDITOR: Loren Simms, WA5CBF 477-0921

7 BICENTENNIAL ARC

MEETS: Second Tuesday, Air National Guard Will Rogers Airport.

PR KH6JTE John Galway 670-5472
VP N5BEQ Jim Buswell 236-0368
Se N5AUH Jerry Sproul 354-2061
Tr WA5RAQ Bill Rogers 632-4375
EDITOR: Bruce Goff, KC5CR 751-6276

9 WHEATSTRAW AMATEUR RADIO CLUB

MEETS: 2:30 pm Second Sunday. Location varies. See club section for location.

PR WA5GLD Dick Ruhl (Kingfisher) 375-4843
VP KA5FUU Tom Johnson (El Reno) 262-5631
S/T WA5PEK Ralph Wilder (Watonga) 623-5421

EDITOR: Ted Vanlaningham, WD5JNT (El Reno) 262-1675

12 SHAWNEE AMATEUR RADIO CLUB

MEETS: 8:00 pm Second & Fourth Tuesday Shawnee City Hall (EOC)

PR WB5ZBA Earl Couch 598-3212
VP WD5ETD Rick Wilson
S/T KA5FBC Jim Sullivan 273-3843

EDITOR:

13 KAY COUNTY AMATEUR RADIO CLUB

MEETS: 7:00 pm 3rd Thursday at EOC

PR WA5UBO Marsh Pronneke 363-2526
VP WB5NQT Pat Burnham 765-7229
S/T WB5YRN Delbert Foiles 762-4479

EDITOR: Marsh Pronneke, WA5UBO 363-2526

15 SOUTH CANADIAN AMATEUR RADIO SOCIETY

MEETS: 9:30 am Second Saturday, Red Cross Bldg., North Campus, Norman

PR KU5B Jack Bickham 329-1311
VP K5KDR Bill Oliver 329-6333
Se AF5X Jess McKinzie 329-1543
Tr WB5UUX Charles McCown 321-1061
EDITOR: Sam Barrett, WA5RPP 321-2601

16 EDMOND AMATEUR RADIO CLUB

MEETS: 7:45 pm First Thursday See club section for location.

PR WD5DYI Mark Northcutt 755-4672
VP WB5ISO Wendall Cochran 943-4308
S/T WB5UIY Stan Van Nort N/L

EDITOR: Stan Van Nort, WB5UIY N/L

17 TRI-CITY AMATEUR RADIO CLUB

MEETS: 7:00 pm First Tuesday. Location varies. See club section.

PR WB5UBB John Warriner 379-3149
VP WB5VLT J. B. Bills 379-3992
S/T WB5TYW Yvonne Warriner 379-3149

EDITOR: Yvonne Warriner, WB5TYW 379-6448

18 GREAT PLAINS AMATEUR RADIO CLUB

MEETS: 7:30 pm First Tuesday, Basement Woodward court house

PR N5CCV Gerald Bowman 994-5381
VP WB0PGD Ron Tice 994-2138
Se WB0QGW Carla Tice 994-2138
Tr KA5KAG Gerry Ford 256-5342
EDITOR: Carla Tice, WB0QGW 994-2138

19 SOUTHEAST OKLA AMATEUR RADIO ASSN.

MEETS: ? ? ?

PR WB5TTV Ron Henson 326-5418
VP WB5ULI George Weldon 326-6572
S/T WD5FUE Orville Kaley 326-3650

EDITOR: ? ?

Central Oklahoma Radio Amateurs

HAM HOLIDAY - JULY 23, 24, 25 1982

Ham Holiday plans are almost complete! We have signed with the MYRIAD and pre-registration forms will soon show up in your C&E. Please register early - if possible. Once again, Ham Holiday '82 is the Oklahoma ARRL State Convention.

The Ham Holiday has grown in scope every year and 1982 is no exception. This year we will feature a computer fair in conjunction with the amateur radio programs. There will be (at least) two programs on the personal computer and its impact on our hobby and our daily lives. One program will be aimed at the person, like myself, who knows absolutely nothing about personal computers. A second program will be directed at those folks who already dabble in 'puters and will be more advanced.

We'll still have programs on DX, 6 meters, FM, antennas plus M.O.R.I. has guaranteed an outstanding ladies program this year! This is a family event so plan to bring everyone. A QCWA breakfast is planned for Sunday. The VHF Society is holding their 25th anniversary reunion on the same weekend as Ham Holiday '82 and we welcome the VHF Society friends and founders to join us. It should be a great time.

I will be winging to Kansas City on April 2nd to visit the Kansas ARRL State Convention. I hope to get some ideas from them-visit with dealers and speakers-and hopefully bring back some surprises for Ham Holiday '82.

All C.O.R.A. participants are requested to have a representative at the May meeting. (See the calendar.) Pre-registration should be taking shape by May and we need everyone's input.

The Ham Holiday "Super" issue of C&E will be mailed to all ARRL members in Oklahoma. This is an excellent chance for dealers to advertise their products to an expanded readership. See our editor for details. De AD1S

Shawnee Amateur Radio Club



W5SXA

This is all we have on the Shawnee club.

SOUTHEAST OKLAHOMA AMATEUR RADIO ASSN.
SOUTHEAST OKLAHOMA AMATEUR RADIO ASSN.
SOUTHEAST OKLAHOMA AMATEUR RADIO ASSN.

This is all we have ever had on the Southeast Oklahoma Amateur Radio Association.



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1-3

APRIL



CORA COMMENTS

The March CORA meeting set a couple of new records: First, it was short - we were ready to head home or to a coffee shop in one hour. Secondly, Unless I missed some late-comers there were only 6 clubs represented: SCARS, MORI, VHF, Autopatch, Aeronautical Center and Wheatstraw.

There wasn't any old business to dispose of since Ham Holiday planning is out of the planning stage and is moving to perfection with all of the committees organized and getting the loose ends gathered up.

The CORA body is handling the programs this year and has several lined up, but, there is always room for another good one - especially something we haven't done before. MORI has the Ladies Program and would like some input from ladies as to what they would like.

The dance Saturday night will be "Western" and will also be livened up by a Clog Dancing demonstration put on by the Dixie Road Runners. If there are some who would like to learn to clog while the rest watch the group will try to get both of their feet working together.

Since this Ham Holiday will also feature a Computer Fair it was decided to make an appropriate Pre-Registration Award and let the lucky pre-registrant take home a Radio Shack TRS-80 Color Computer, thus it should be of interest for not only amateurs to pre register but there are lots of computer types who will be interested and thus maybe get them into the amateur fraternity as well.

The QCWA Continental Breakfast price and place was firmed up. In the Myriad and \$2.75.

The rest of the meeting was devoted to the special edition of CORA Collector & Emitter which will be mailed to every amateur and computer buff that we can get an address for in Oklahoma and surrounding border states. Since it was brought out that the Autopatch club had received a nice big fat credit to their subscription account by their members selling ads, everyone wanted to know the prices and specifications so they could get in on selling ads for the special edition. Here they are:

If the advertiser furnishes camera-ready copy (all type set and pasted up) the price for one page will be \$60.00. A half page will be \$35.00. A quarter page will be \$20.00. If we have to prepare the ad there will be an extra charge not to exceed 25% surcharge.

Copy should be prepared in either of two formats; Full Page = 9 7/8" wide X 15 1/2" deep.
OR

Full page = 6 3/8 wide X 10" deep.
Black or red copy. Photographs can be used.

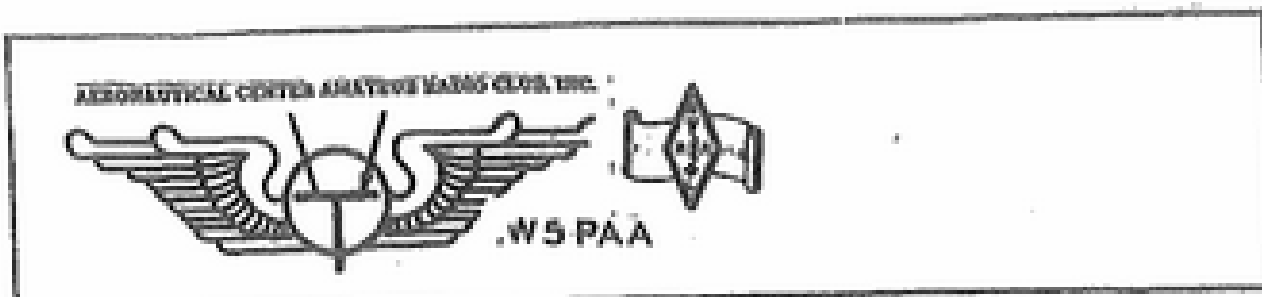
If you can sell the space (and earn 25% of the sale for your club) and have trouble with the copy - or any other problem contact Joe, WA5ZNF, at 737-1044 and it can be resolved.

All ad copy must be turned in by 15 May and all text copy is due by 19 May. Pasteup will be on the 24th with mailing on May 29th.

If you can't sell space try a business card ad at \$30.00 for a full year, that's only \$2.50 per month to reach all the active hams in the area.

Joe, WA5ZNF

COLLECTOR AND EMITTER



MARCH MINUTES ACARC

In spite of the poor winter weather, our March meeting began at 8:00pm with 99 members and guests present. The meeting was held in the Aeronautical Center auditorium to accommodate the large turnout.

The normal club business was postponed by the President, Rob Runyon, AA0O, to allow time for the presentation by Neil Marchbanks. Rob made introductions of the club officers and distinguished guests, including - Lee Akin, the Dep. Director of the Oklahoma State Civil Defense and Leonard Hollar, W5FSN, the Section Communications Manager for the ARRL.

Neil started his program at 08:30pm which included two films and an excellent narrated slide presentation on severe weather spotting.

Our thanks to Jack Iman, WB5SVN, for running the projection booth and to Neil Marchbanks for an excellent program.

Jim Seisnious, WB5UHW
Secretary ACARC

The "O" Files

This business of being Pres. is kind of interesting. One of the interesting things I get to do is write this little column each month. I'm going to try out various names for it until I find one that fits...then hopefully it will be time for someone else to take over.

Our March meeting went very well thank you, despite some uncertainties with the weather. It was snowing at about the time people were ready to start from home for the meeting, with dire predictions from the weather folks about accumulations during the night. We still had about a hundred brave souls turn out, and as things finally went, the weather was a paper tiger, and OKC dodged the bullet once again.

I enjoyed the meeting, and managed to learn some more about severe weather that I didn't know. Neil Marchbanks analysis of thunder storm structures was excellent, and demonstrated once again that the body of knowledge concerning damaging weather phenomena is growing almost daily.

Oklahoma City and environs is fortunate to have so very much community interest in weather, and the amateur radio community is right up there in the lead. The C. O. CAPA severe weather warning net is unexcelled in the business of real-time warning communications which is so very vital to us folks in the tornado belt. Knowing areas of probabilities for severe weather to develop is one thing, but having trained eyeballs on the situation talking to a meteorologist able to issue specific warnings in real-time is so important. Amateur radio is uniquely equipped to provide just that service, and does it well in this community. The secret is two-fold. First you need a large cadre of trained observers over a large geographic area. Neill pointed out very vividly that an observers angle relative to the storm is critical. And secondly, (assuming the observers are radio equipped) immediate access to one or more media outlets, either radio or TV is a must if the warning specific to an area is going to get to the public timely. The rapidity with which tornados develop, and their erratic ground paths make mass-media real-time alerting an absolute must in this area. We currently have that capability essentially through a single media outlet. What we need now, what we require now, is expansion of that very successful concept into a wider, and more accessible system. Think about it...and work for it...community public service will be well served.

Every morning I get the opportunity to talk to the trustee of W5PAA, and W5AVM, and get a first-hand report on the status of the stations. I get that meeting with the trustee because I shave his face daily, and thereby have an opportunity to talk to him. I've been assured the stations are operating normally...Thought I'd pass that information along to you. 73
Rob...AA0O

FLASH!! QST's GROW LEGGS AT W5PAA.

Due to massive RF exposure at W5PAA, the entire twelve issues of QST for 1981 have mutated with legs, and are now walking around on the loose!

As you know all issues of club magazines including QST, CQ, 73, C&E, Worldradio, Amateur Radio, etc.etc. are available at W5PAA for members to use for reference and research. They are kept on open shelves in an honor system. Apparently someone has been using the file of 1981 QST, and forgot to return it (them).

If anyone reading this has, or knows where to find, the missing issues, please bring 'em back.

As a general rule, publications should not be taken from W5PAA without letting one of the club officers know, so if you forget, someone will know who to contact for return.

Thanx... Rob AA0O

PRODUCT REVIEW - TEN-TEC ARGOSY

I've just spent an enjoyable weekend with a most unusual and versatile little rig capable of working either QRPp, or medium QRO. The Argosy seems to be Ten-Tec's answer to filling out the product line of fine transceivers so as to leave no significant gaps.

For the QRPp purist, there is a new version of the highly acclaimed Argonaut. I think it is safe to say that the Argonaut is to the QRPp world what the Mercedes is to the automotive world. Next in the famous Ten-Tec lineup is the Argosy bridging the QRPp gap with a 100 watt (50 output) amplifier built-in to take the place of the now outlawed little 50w amplifier. Next is the Delta with it's 200 watt input capability built with the operating trade offs in favor of SSB, and lastly Ten-Tec's most versatile (and expensive) line-up with the OMNI-C having all the bells and whistles for superlative SSB as well as CW operation. The only thing any of these equipments lack is the digital control features which have lately become the vogue among amateurs. For sheer operating convenience, and unsurpassed sensitivity, selectivity, and stability however, they (none of them) can't be beat. And that's a fact you can hang your operating hat on.

All Ten-Tec gear is solid state, including the mighty Hercules automatic bandswitching kilowatt amplifier. And, all except the Argonaut QRPp, and Argosy come with remote VFO which includes a unique ability to listen on two frequencies in the same band at once, and transmit on either one at will...That's a very neat trick for DX work!

Back to the Argosy, presently under review.. The Argosy shares many of the same operating characteristics of the next model up, the Delta. It has a tracking RF section and fixed (wide open, broad banded) gain. So, the only control you have for gain is an AF knob. This gets to be a little troublesome for fine CW, but works great for the 'phone operator. Instant band-switching is, of course a plus, and the analog dial uses a unique oblong lens LED as the indexer, and it works very well. Argosy works either as a QRPp rig or as a medium power outfit capable of driving most KW amplifiers of the single 3-500Z variety, or a pair of 572B's. Selection of output is made at the rear apron with a guarded switch. Unlike the smaller Argonaut, the Argosy has provision for optional, internally selected crystal filters, both CW, and SSB. Along with the 2.7kHz crystal filter in the IF chain, use of these additional filters will give you 16 poles of crystal filtering, and if you use the optional AF filtering some of the sharpest edges in the industry are possible with this rig.

Tune-up and operation of this rig (like the other Ten-Tec line) is the ultimate in simplicity. If you are into a decently resonant 50 ohm antenna, just select your operating frequency, advance the drive control until the ALC light comes on, and you are on the air. You don't even need to peak up the receiver, and Sideband selection is automatic for each band in accordance with the established conventions of LSB on 80/40, and USB on the others. Of course, for you non-conformists,

(CONTINUED) See TEN TEC on page 6

APRIL



We had a good turnout for our March meeting of the WHEATSTRAW AMATEUR RADIO CLUB. We filled the Peoples National Bank at Kingfisher with 29 members and guests and at least 3 boxes of goodies. I want to recognize Ed WD5EGB and KA5JLA from Okarche. They have a very complete ham station and Betty is especially active in 6 meter DXing. Very Fine Fellows, and I hope they make a habit of attending the meetings. Tom KA5FUU and Bertha brought his sister and her husband Floyd from Vienna Va. They had a fine time. It seems they had known Frank and Virginia from many moons ago. It sure is a small world.

Speaking of Virginia, WB5WTN is no more. She is now N5EMD. No upgrade. Just a new shorter name.

Ralph WB5PFW was recognized for his "Certificate of Achievement" from the ARRL. Ralph had a very nice article written by the El Reno Tribune about his hobby. Ralph was thrilled with the front page picture and story but when Leonard, WA5FSN, sent a copy of the article to the League it was like frosting on the cake. Congratulations to Ralph.

a number of Club members went to Calumet on Sunday, March 7 to help Jamie K5RLM and Leona WA5LTJ celebrate their 50th wedding anniversary. Jamie is one of the charter members who founded the Wheatstraw Amateur Radio Club.

The Fellowship Hall was full of friends and hams. Several of these hams are inactive and I enjoyed meeting them. Can you imagine how long it would take Marvin to get through the list if they all checked into the net?

Congratulations to Jamie and Leona. We will expect ice cream for your 75th.

Last Wednesdays Net [March 10] was a sad one. and I think Marvin conducted it very well. We had received word from South Texas that Darla had not made it through the night. Venus and I felt something special about her and from the turnout at her funeral Saturday a lot of people had the same feelings. I was real proud to be a part of our group and I think we made a very hard day for Leo KA5DUO a little bit easier.

At the meeting we took up a collection to be donated in her name to the memorial fund at her church. If anyone would like to add to the \$75 collected, they can get in touch with Ralph WA5PFW in Watonga.

Because of the Easter Bunny our next meeting will be changed to the first Sunday, April 4 at the Watonga State Bank at 2:30 pm. Ralph WA5PFW volunteered for net control.

Tune in Wednesday nites at 8:30

doubludeefivejaynnntee

GLEN HALL 1-3

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Manager

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(405) 840-7593

APRIL

OK DX

The OK DX meeting will be held at the Waterhole Restaurant, 3333 N.W. Expressway (across from Baptist Medical Center) on April 12, 1982. Happy hour starts when you get there. Everyone is invited - let's meet and find out how you are doing on the HF bands. Whether you're a NOVICE or EXTRA or in-between come on out.

ON THE BANDS:

ZD9BV - Trestin de Cuhna - Andy has been working exclusively from a list - 3-5 days a week. The list is usually taken from 1730-1800 UTC on either 21.337 or 28.620 Mhz (depending on stateside propagation) and Andy comes up on 28.620. List-takers heard have been KALDE, KA7AUH, W7RQ, J3AH, ZD8TC, WA2JUN and others. QSL to W4FRU.

V59K - Kamaran was deleted as a DXCC country on March 11. Another one I didn't get!

VK9AN - Marquarie Island - you have to get up early for this one. He's been heard on VK9NS net - 14.220 with check-ins around 0700 UTC. Listen on Tuesdays and Thursdays. Lots of coffee.

PY8RR - Trinidad - Rumor is that PY1RR plans to spend 4-5 days on PJ7 beginning 27 March and then will travel to Trinidad for 25 days! I haven't heard any other info for several weeks on this - so this may not pan out.

BY - China - Amateur radio has been approved in China and applications are being taken for club stations. These may start to show up within 60 days. Rumored was appearance of BY1PK on 28 Mhz but I cannot confirm.

CE8X - San Felix - You may recall that KF1O allegedly went to CE8X back in November. Yours truly was one of the fortunate 650 to work him. However, I may have lost all of that sleep for nuthin'. Don Search, W3AZD, DXCC manager says documentation is incomplete and Westlink Report says KF1O was arrested by Newington Police (ouch!) in the parking lot of ARRL HQ on an alleged "bad check" charge while trying to deliver additional documents.

The FCC is now considering expansion of the 20 meter phone band for U.S. amateurs. The ARRL submitted a plan; W7PHO submitted a plan; but the FCC plan is really strange. Check your next QST - Happenings and file your opinion with the FCC! Good DX. De AD1S.

TEN-TEC CONTINUED

these is a revers sideband selection position as well. Since CW is generated by upsetting the balanced modulator, then the direction of offset (about 800Hz) follows the same convention as the SSR.

As with the rest of their line, Ten-Tec extends an unusual warranty which in effect says that if you hurt the machine trying to fix it during warranty (provided it breaks, and you aren't just screwing around with it), then they will not void your warranty. So, making an honest effort to make minor repairs during warranty, and ham-handing it, won't cost you a lot of bread to fix. Also, it needs to be said that their factory back-up service is quite resonable, and technically excellent.

So there you have it. Ten-Tec's transition machine, the next step up for QRPp may be your next logical choice if you are looking for light weight, straight forward design in an inexpensive equipment. I personally don't think it is very good for serious CW work, but it sure is a dandy sidebander, and quite adequate for the occasional CW buff.

Thanks to Bill Brodie for loaning me the Argosy for this review.

73's for now...and I'll have another equipment review a little later for you.

Rob AA00

The South Canadian Amateur Radio Society

SCARS DINNER MEETING.....

On March 4th, a good crowd of the SCARS faithful gathered at Furr's Cafeteria on Main St. in Norman for what seemed to be a successful regular monthly meeting. No Business was conducted with the possible exception of certain of us that are never very far from our "monkey business" (I know, I know, that was pretty bad, but I haven't got much to say this month so, give me a break, huh!)

When asked to comment on the success of the meeting, KU5B (club president) told this reporter, "Frankly Sam, chomp chomp munch crunch." He went on to add, "chew, chew, chew, and also slurp."

Among other remarks heard were, "uurrp!", "burp?", "---. ---. ---. ---." and the ever-popular "aaaaaash!".

WD5HAM RECOVERING.....

Late word as of this writing is that Bonnie, WD5HAM, is doing much better. While she is still in the Norman Municipal Hospital, she no longer requires IV antibiotics or oxygen. Her condition was very serious for several days but she seems to be doing well enough that she may be able to go home later this week.

IMPORTANT DISCUSSION AT NEXT MEETING.....

At the next monthly meeting of SCARS, April 10th at the RED CROSS, one of the topics of discussion will be the decision on whether or not SCARS will take part in Field Day this year. If a decision to participate is made, a committee will be formed to plan the event. Your attendance at this meeting is very important for at least two reasons:

- 1) We must have all of the input that we can get on club interest in Field Day. After all, it won't do much good if we decide to take part and only 2 or 3 members are willing to do the work.
- 2) If entry into the event is approved, you may or may not want to be on the committee in charge, so be there when or if the committee is appointed.

-wa5rpp-

WORLDWIDE VHF DX IS HERE - NOW!!!

The six meter amateur band (50-54MHz) is still providing worldwide propagation just as it has since May 1979. The peak of this solar cycle (designated by scientists as "Cycle 21") and the resulting reflection of VHF radio waves by the "F"-layer of the ionosphere are bringing DX contacts which delight even those of us who expected some really phenomenal activity.

We here in the southwestern US have certainly received our share of exotic DX, even by HF standards. The most recent round of great 50 megahertz DX began for us last October as many Venezuelan, Ecuadorian, and Colombian stations were contacted by several Oklahoma operators, all receiving S9 reports. Throughout October, the Caribbean and northern South American path provided numerous contacts with: British and US Virgin Islands, Barbados, Curacao, St Lucia, Puerto Rico, Colombia, Venezuela, and Brazil. No less than three Pacific openings transpired and several Hawaiian stations were worked.

Early November gave us an excellent Japanese opening - all signals well above S9. One of the Japanese operators was worked here by Charlie, WB5ZKY, using a ten watt transceiver and an attic dipole! Several Alaskan stations were

COLLECTOR AND EMITTER

repeatedly worked here in November, as well as many Hawaiians, and T32AB on Kiribati. On the 13th of November, history was made as the two US operators on DX'pedition to Gambia, in west Africa, began working stations all across the USA! The Gambia station, C5AEH, was well over S9 almost every day for a week-and-a-half. As the west African path opened, two Liberian ops were also contacted, as well as SW Africa, and ZS6LN in South Africa.

Also in mid November, HCLMD took a six meter transceiver on vacation with him to the Galapagos Islands (west of Ecuador). Almost every active six meter operator in central Oklahoma established solid contact with him on his special HCLMDVHF callsign. (Again, ZKY sacked him for a 57 report with his 10 watts & dipole). Near the end of November, two of us were fortunate enough to work HK0BKX on San Andres Isle, near Colombia.

Early December produced more Alaskan and Hawaii openings, as well as several crossband contacts with England, Germany, France, etc. An Iceland station and two on Gibraltar gave many of our operators their last required continent on the six meter band. For the record, a "crossband" contact occurs when one of the European stations whose country doesn't permit operation on six meters listens for our signals there and transmits back to us on ten meters.

BBC television in London operates on what is our six meter band. On no less than five occasions in early December, very strong BBC video pulses were received here. Hence, the lack of activity from the European continent (very disappointing too).

Recent reports of 50MHz Worked-All-States awards by no less than ten of us here in central Oklahoma now seem overshadowed by the fact that six of us have finally achieved the 50MHz Worked-All-Continents awards: W5VCJ, W5NZS, WB5DSH, K8JRM/5, N5DDB, and N5WM. (I listed Steve, W5VCJ, first because he completed his WAC in 1958!)

The month of January didn't give us any outstanding DX contacts. February has netted many fine contacts, starting with J3AB on Grenada and some other Caribbean islands for six straight days, and New Zealand (ZL2KT) during the late afternoon of Feb 2. The Caribbean and northern coast of South America have been worked almost every day through the middle of February.

If you are interested in hearing more about the nature of propagation on the six meter band, be looking for our club presentations, lecture and discussion at Ham Holiday (when we're invited), or listen on our worldwide DX watch net on the ten meter band (28.885MHz) - or on 146.46MHz for local reports.

73, Bill Riddles
N5WM

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Club
NEWS

Volume 1
The Club Newsletter

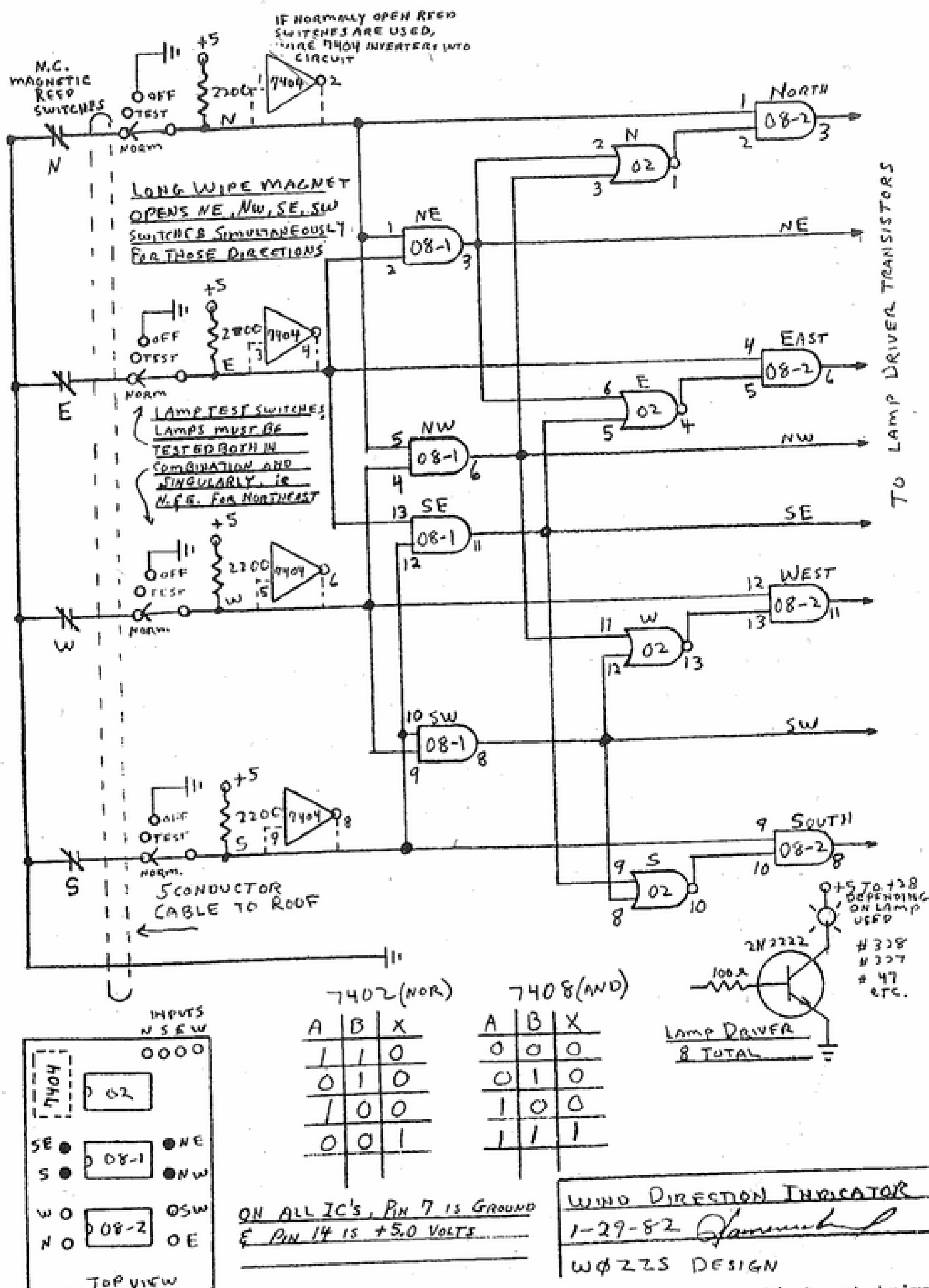
MINUTES OF MARCH 1982 MEETING

Will be published in next month's C&E. This month, paste-up happens two days before the meeting. Joe, K5JB, Sec'y

WIND DIRECTION INDICATOR

Fred Pfannenschmid, W0ZZS, a regular check-in in the 3900 kHz weather net, from Pueblo CO, sends this circuit which he designed and uses to get remote indication of wind direction.

The mechanical details of his weathervane are on the next page. His sketches are pretty much self-explanatory. Watch out for the logic symbols used. The 7408's are a little unusual. The 7402's are NOR gates.

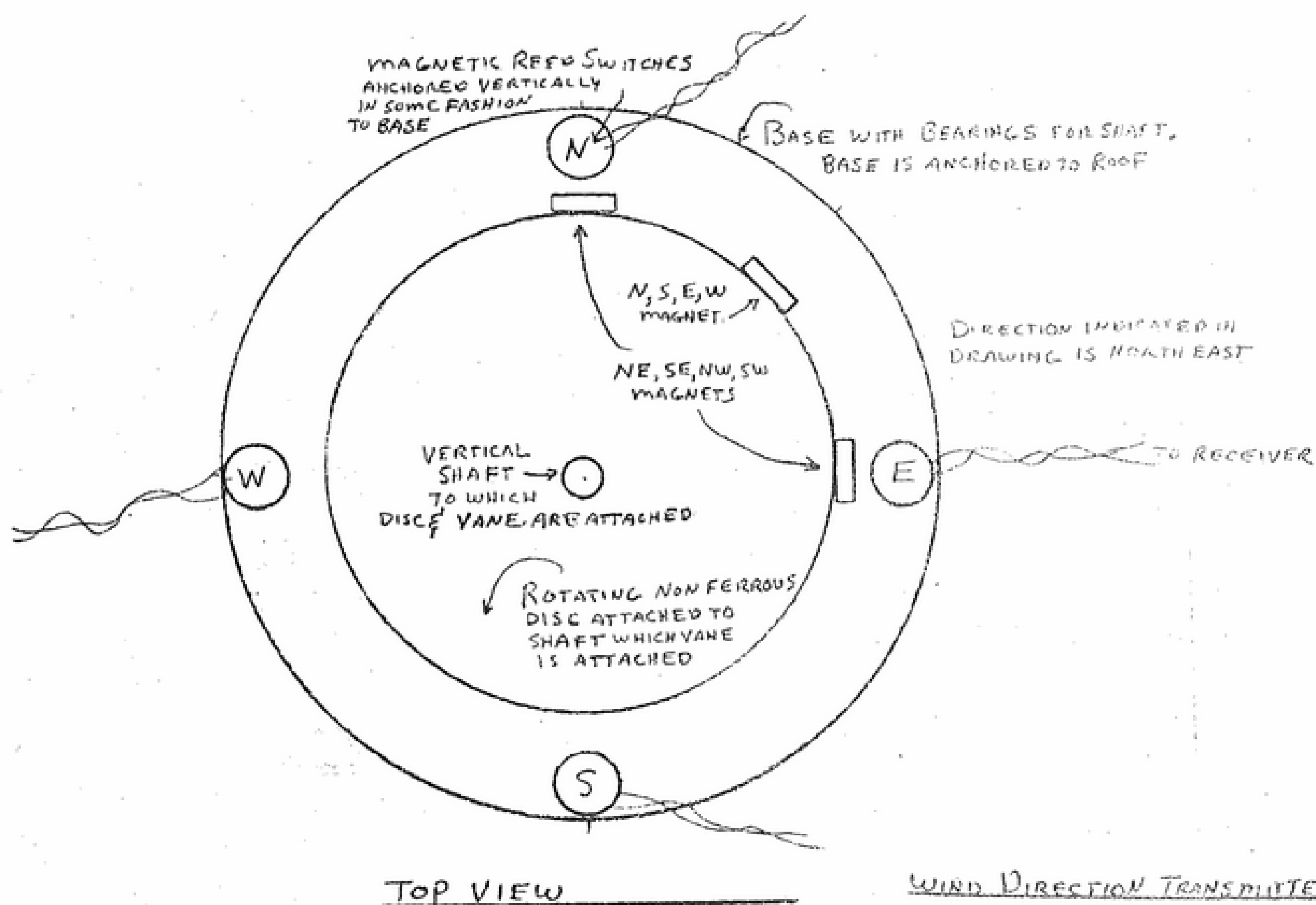
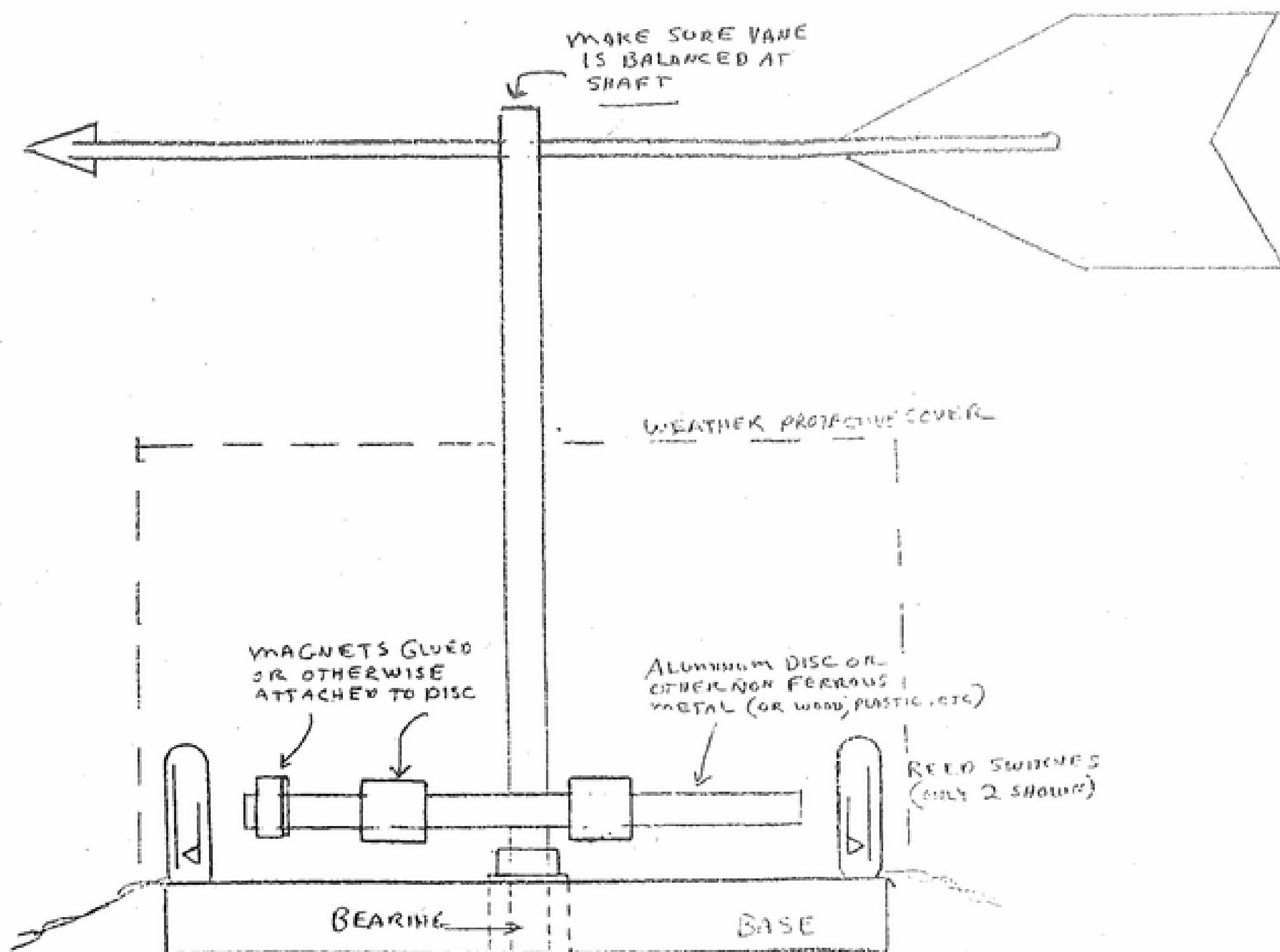


Next Month Club Meeting

Steve, W5VCJ, advised me in advance, so I could meet deadline, that the April VHF Club meeting would have a program on Amateur TV.

He has invited Ken Goddard, WA5DTL, and Doc Goodhead, WA5CZN, to present a program on Amateur Television, both slow and fast scan. They will be discussing FCC allocations for each type, Types of equipment required (including modification of equipment for the purpose), and, how amateurs typically operate TV. Should be a good program. Joe, K5JB

One of Fred's notes that got trimmed to make his sketches fit was "If desired, 8 reed switches may be used and I.C. circuit eliminated by driving lamps directly. Use 9 conductor cable and one magnet on disc." I might add the comment that if driving the lamps directly, it would be a good idea to use AC because those little reed switches have a bad habit of becoming magnetized if used to switch DC for an extended period of time. Nothing would be worse than having to go up on the roof once in a while to peck on the thing to get it working. Thanks Fred for the circuit. Joe, K5JB



WIND DIRECTION TRANSMITTER
FOR USE WITH I.P. RECEIVER -
5 CONDUCTOR CABLE REQUIRED
W 0225 DESIGN

THE HAND CAPACITY PARADOX

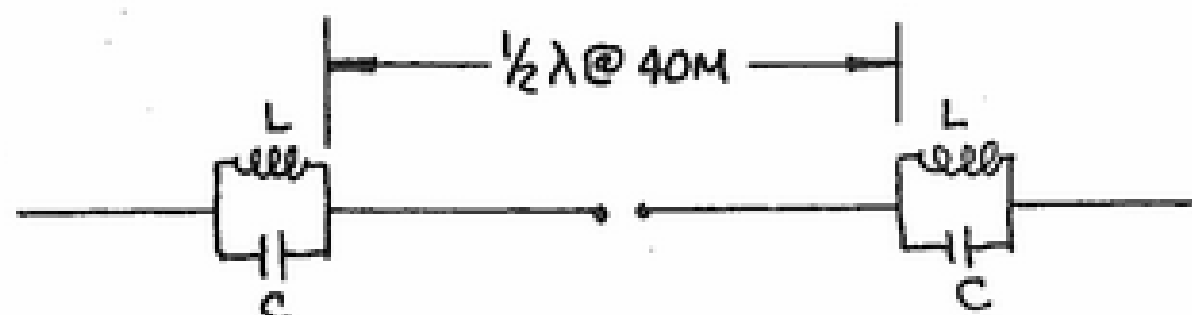
One Saturday afternoon, during a meeting of the Norman Spitt & Whittle Radio Club, down at TD's Radio and TV, I asked a question that really started the wise old men stroking their beards. I asked if the hand is brought close to an antenna on a mobile installation while it is transmitting and the reflected power goes down, is the antenna too short or too long?

Dean answered instantly. "It is too short", he sez. But Darryl furrows his brow and says, "If it is too short, it represents a capacitive reactance in series with a resistance. How can adding capacity make this condition better?"

"Simple" says I. "It has something to do with the strange way that reactances add sometimes." Well with that comment, the discussion was closed and another subject was attacked.

But for me, it wasn't over. I kept nagging myself until I got out a sheet of paper and started drawing pictures of antennas. The answer at first wasn't obvious. I had to recall just about every thing I had discovered about impedances, etc. I reviewed duplexers, matching networks, Smith charts and antenna traps.

Aha, the good old antenna trap. I am sure most of you noticed the peculiarity of antenna traps, having studied for your license, and all. The two band antenna shown here is made to cover 40 and 80 meters. The center section is cut to resonate as a half wave antenna of 40 meters. The traps are so constructed that they also resonate on 40 meters. Now reduce the frequency to 80 meters. X_L becomes less and X_C becomes greater. The combination becomes inductive, however, and loads the remainder of wire at the ends on 80 meters.



Actually it is quite simple using either the equations in the book or going to admittance parameters, which are a lot easier in shunt circuits. B is susceptance in case you forgot. (I guess the units are Seimens since there are no mho's)

$$\begin{aligned} B_{TOTAL} &= B_L - B_C \\ &= \frac{1}{X_L} - \frac{1}{X_C} \\ &= \frac{X_C - X_L}{X_L X_C} \end{aligned}$$

$$X_{TOTAL} = \frac{1}{B_{TOTAL}} = \frac{X_L X_C}{X_C - X_L}$$

Now examine what happens as the frequency is varied:

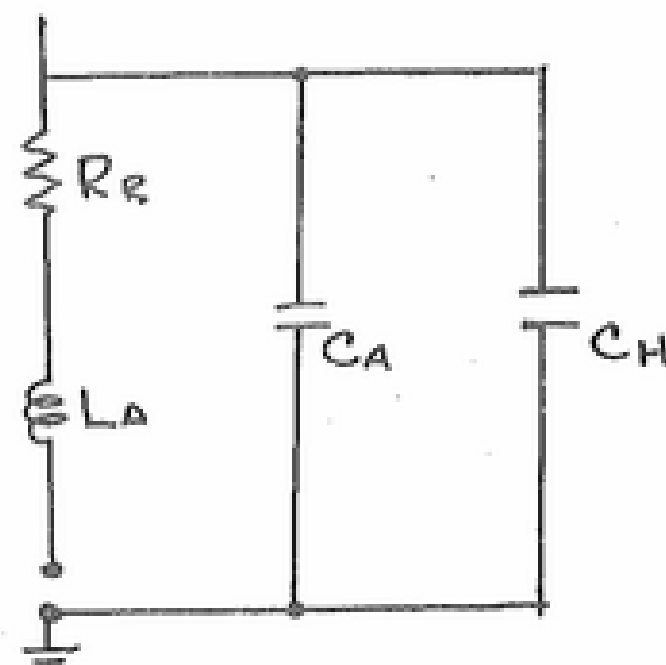
$$X_L = 2\pi f L \quad \text{and} \quad X_C = \frac{1}{2\pi f C}$$

When the frequency goes lower, Inductive reactance goes down and Capacitive reactance goes up. The sign in the equation above becomes positive indicating the total reactance becomes inductive.

Well, what does this have to do with anything? Actually very little because this stuff only deals with a parallel circuit containing reactances. I got stuck in this rut because I knew the answer had to be based on something pretty heavy because the answer wasn't obvious.

Well back to the problem at hand. We are con- with a series resonant circuit on the basic

antenna. It looks something like the figure below, if I can take the liberty to lump all the constants into a resistance, a capacitive reactance, and an inductive reactance.



R_e is the lumped total of the resistances in the antenna, L_a is the equivalent inductance, C_a is the equivalent capacitance, and, C_h is the hand brought near the thing. (Or in the case of an HF whip on the back of the car and SWR bridge in the front seat, a piece of string bending the thing over will do the same thing.)

Now look at this thing. Adding the hand capacitance increases the total capacitance, Right? The antenna is already capacitive if it is too short, Right? So how does increasing the thing that is wrong with the antenna make it work better?

I ought to stop there and let you come up with the answer. Actually, I thought about several things to support my intuition that added capacity lowers the frequency, the capacity hat, for example. But, attempts to run the thing down mathematically just bogged down, HP-25 with its rectangular to polar conversions notwithstanding.

Actually, the correct answer is so simple, I am embarrassed to admit it. A circuit is resonant when the reactances cancel out. Remember that:

$$X_C = \frac{1}{2\pi f C}$$

When C goes up, X_C goes down. Adding C_h to C_a lowers the capacitive reactance, and if the antenna is close, the hand effect may bring the SWR down to 1. If the antenna is a little too long, it has a residual inductive reactance. In other words:

$$X_L > X_C$$

Adding C_h to C_a makes X_C even smaller worsening this condition. The antenna impedance moves in the direction of increased inductive reactance which increases the reflected power (or SWR).

If the antenna is extremely short, say 1/8 wave length, all the hand capacity in the realm of the jolly green giant wouldn't salvage the thing. Because of the low radiation resistance it wouldn't be brought any near to 50 ohms feed-point impedance without some transformation trick. A ground plane antenna would have only six ohms of radiation resistance in series with 500 ohms of capacitive reactance. In order to get a decent feed it would be necessary to run a tap up the radiator a ways or add a matching network consisting of a pair of reactances, one in shunt and one in series, to get a conjugate match and transformation.

Joe, K5JB

Technical Question

Believe it or not, some people are still using vacuum tubes once in a while. I have a question on one. An 8643 is a dual tetrode similar to a 5894. I want to try turning it off (class C operation with fixed bias) by switching the screen to ground, leaving the plate voltage (800 volts) on. Purpose is to reduce wear and tear on relay contacts. It has to be quiet when off because it will be in duplex standby when off. Any information on this tube?

Joe, K5JB

Next month is a BIG SHINDIG at OKC Autopatch and the PUBLIC is INVITED to the big auction! Bring your unwanted gear and accessories to the auction and Bill, W5JYT will sell it for you. We hope to have a big crowd and lots of stuff to sell. A 10% fee will be charged on sales and will go to the club treasury. Donations of items to be auctioned will be appreciated. Spread the word on this one, as it should be a lot of fun - and it might be profitable too! The auction will be held on April 20, 7:30 p.m. at the Fire Department Training Center (back entrance). The center is located on N. Portland between Reno and 10th Street. Easy access off the westbound exit of N.W. 10th and I-240. Talk in on 22-82. Invite your friends. Non-members are especially welcome to join us!

Our March meeting was held on the 16th at the OKC Fire Department Training Center. About 40 members and guests attended.

Bill Orcutt of the Whittington Ins. Agcy. presented the details on the new equipment floater policy. If you don't have coverage on your ham gear and antennas, now is the time to sign up! Do it promptly by contacting Bill at (405) 521-0071.

What does the policy cover? Here is what the certificate of insurance provides:

This is to certify that the Fireman's Fund Insurance Company of Texas issued to the Oklahoma City Auto Patch Corp. et al, policy number MSE 4171842, dated March 1, 1982, and effective for one year from this date.

COVERAGE

Scheduled articles floater, (broad form) This certificate makes a part of the stated policy and gives the named certificate holder blanket coverage in the amount of \$2,000.00 for the following described articles:

Transmitting and receiving equipment, antennas, and all necessary accessories for the use thereof. This includes portable, fixed-base, and equipment in vehicles.

For the additional premium stated below, this policy will include an additional amount added to the basic in the amount of \$-0-. This additional amount is added at the rate of \$1.50 per \$100.00 of value. There must be a premium charged for there to be an additional amount of coverage.

PERILS INSURED

This policy insures against all risk of direct physical loss of or damage to the property insured from an external cause (except as otherwise provided.)

PERILS EXCLUDED

The principal exclusions are:

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- Dishonesty on the part of the insured or other party at interest.
- Unexplained loss, mysterious disappearance or shortage.
- Direct damage from rain, snow, or sleet wind driven or not, however, water damage shall be covered otherwise.
- Loss from unattended vehicle, unless there is evidence of forceable entry.

DEDUCTIBLE CLAUSE

In the event of loss or damage, a \$150.00 deductible shall apply to either the limit of liability or the adjusted loss whichever is less.

COINSURANCE

The company shall be liable for no greater proportion of any loss than the amount hereby insured bears to one hundred percent (100%) of the actual cash value of the property described herein at the time when such loss shall happen. If this policy covers two or more items, this clause shall apply to each

COLLECTOR AND EMITTER

item separately.

This certificate is merely evidence of the issuance of said policy and is given as a matter of information. This does not contain all the terms, conditions or the exclusions of the policy and for more information refer to the policy.

Basic Premium: \$30.00

Additional Premium: \$-0-

Total Premium: \$30.00

Effective date of certificate: March 1, 1982

The OKC Autopatch Association is in charge of dealers/awards for Ham Holiday '82. Chuck K5NK will chair a committee comprised of our CORA reps and will begin contacting dealers at once. Any local dealers who would like to participate in Ham Holiday '82 should see K5NK...or, we will be in touch soon. Please mark your calendar for July 23, 24 & 25 for the Ham Holiday '82 and computer fair. Yes, this year we will highlight the impact of personal computers on our hobby and on our lives...

The 2 meter committee reported on the maintenance problems we have experienced over the past several months. The problems are being resolved and the 2 meter guys are doing a yeoman job!

The Severe Weather Warning Net was called on Monday, March 15. The OKC area was much more fortunate than Ada and Bartlesville. We discovered some weaknesses in our system and these will be corrected before the "next one."

Watch C&E for announcement of some excellent programs planned for the coming months. Art, W1GOM is doing an excellent job with our programs. If you have any ideas for future programs, give Art a call.

Speaking of Art, he is on the disabled list following surgery during the week of March 8. Art will be back lifting weights in a few weeks. Cough.

Also on the disabled list is John, N5DBH. Evil Knevil still lives in Yukon. John, we all hope you make a fast recovery because I think it's time to pay your club dues. (hi!) Seriously, you should be able to work another 300 countries while you're on the mend. Hang in there.

The Storm Watch maps are now available and may be obtained (free) at Guschke's Communications & Electronics, N.W. 50th and MacArthur.

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K5SJV	Don		721-2119
W1GOM	Art		947-5347
AD1S	George	947-0511	722-6195
K5GL	Guy	787-9545	787-9547
K2GKK	Mac		672-4947
N5DDB	Mike		722-1376
N5GE	Tom	789-2685	321-8491
K5IGB	Ron		755-0565
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Editor: STAN VAN NORT WB5UIV

THREE ALARM FIRE IN OKC by MARTIN VINSON

On Sunday night February 21, 1982, the WB5ISN/R, (UHF 444.2Mhz) was again utilized for public service activities. A three alarm fire at the Regency Tower Apartments in downtown Okla. City was to leave many people homeless and frightened. Amateur radio played a vital part in locating the people, arranging transportation and shelter for the homeless. Amateur radio also provided much needed communications for the various volunteer agencies involved.

At around 7:00PM the Okla. City E.O.C. called for county civil defense volunteers. The American Red Cross was also notified, along with the Salvation Army. When I arrived at the scene the OKC Fire Dept. was still fighting the blaze located on one floor of the apt. building. The Salvation Army truck was already present with donuts and coffee. A state of extreme confusion existed about what to do with the tenants already evacuated from the building. (Initial estimates from the Fire Dept. were 200 people.) Communications between myself and the civil defense volunteer radio operator at the Red Cross, Brian DeHart N5BEV, established that the Red Cross was prepared to shelter the people. The only problem remaining was to transport the people from the fire scene to the Red Cross headquarters. This proved to be quite a problem overall. The R.C. was capable of the task, but not really equipped for it. A quick check with Salvation Army Capt. Browning revealed they had several vans available. By 8:30PM the Fire Dept. reduced the estimate of homeless anywhere from 25 to 100. Preparing for the worst case, three vehicles were called to the scene by the Salvation Army using Amateur Radio. Within an hour they arrived despite considerable confusion developing because of conflicting communication efforts by the Civil Defense personnel and newly arriving radio operators at the Red Cross. (Some confusion was caused by an amateur who was apparently mad because he wasn't running the show and therefore refused to answer the two meter station at the Red Cross.)

Red Cross volunteers, non-amateur, finally started to arrive after a long delay. Things continued to limp along for about another hour while the official homeless figure went up and down. (and up & down again) Then about 9:30 or 10:00 the first of the homeless were transported by the Salvation Army vehicles to the Red Cross shelter. The transportation continued without further problems. However, relations between the Civil Defense officer at the Red Cross (Brian) and the Red Cross amateurs had digressed to the point that he was asked to turn off his UHF amateur walkie-talkie. It seems that as far as the R.C. amateurs were concerned the communications would occur on "their frequency, 34/94" or not at all. Shortly after this occurred, the security chief of the

Regency apartments made a request to get a list of the people at the R.C. shelter. (Last minute changes allowed some tenants to return to their apartments.) Not being able to raise Brian on his UHF radio, I called OKC E.O.C. on the county radio. The E.O.C. dispatcher was unable to the Red Cross on two separate radios and the answering service was picking up their telephone. Being thoroughly disgusted at this point, I hiked a couple of city blocks to my car and my mobile mounted IC-22S. A call for W5LOW on "their frequency" yielded an extended silence. An additional call resulted in the same silence. Finally a hearty chorus of "Hey Red Cross are you there" sufficiently distracted the operator from his

conversation to turn around and depress the transmit button on his radio. The request was made and after a "just a minute" I was put on a long hold, without the music. I was finally called back by Brian who broke the rule and turned on his UHF amateur radio.

One would think a point had been made by this time, but the Civil Defense operator continued to suffer various harassment during the course of the evening.

The Salvation Army was greatly impressed by the abilities and professionalism of the amateurs on the scene. These also included Lee Swanson, N5CPN and Harry KA5IH. (Sorry I didn't get your last name Harry) In turn I was impressed by the Salvation Army's promptness and organization. I was not at all impressed by the total lack of organization and down-right childishness on the part of some of the Red Cross amateur operators.

Both the Salvation Army and the Regency management expressed their appreciation to the amateur radio operators at the scene. I encouraged the Salvation Army to call on the amateur community in the event of future occurrences.

MARTIN T. VINSON
WD5FEI



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Mail to C.O.R.A., P.O. Box 15013, Del City, OK 73155, before July 17, 1982.**

A non-commercial flea market table is free to pre-registrants if reserved ahead. Specify whether you want it for Saturday only or for the whole weekend, so we can plan the arrangement more efficiently for you.

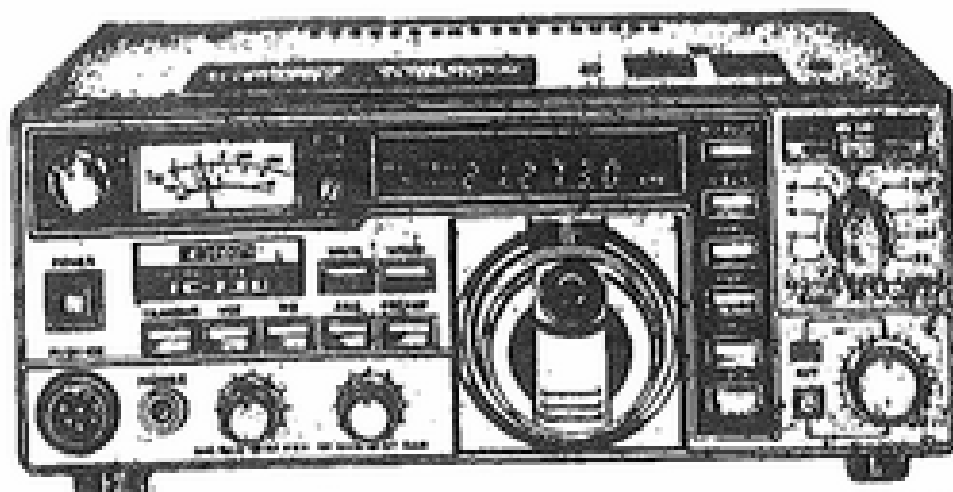
Please reserve one non-commercial Flea Market Table for me: ___ Sat. only ___ Sun. too

(Cont'd.)

More Information about:

- **HAM HOLIDAY '82**
- **COMPUTERFEST**
- **ARRL STATE CONVENTION**

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*** Prize Policy:** The winner and/or his ticket must be present to claim any award except the pre-registration award. You may sign your ticket for someone else to hold for you. Unclaimed registrations will not be deposited for the main drawing - only for the pre-registration drawing.

Pre-registration: \$6.00 with attached form. All envelopes must be postmarked not later than midnight, July 17, 1982, to be eligible for pre-registration prize drawing. Registration packet with badges and tickets will be held at the door. No limit on number of tickets. No refunds or confirmations. Winner need not be present for this drawing only.

Admission: \$6.00 pre-registered; \$7.00 at the door. (Same price as last year.) This price is for everyone attending—visitors, wives, and teenagers—licensed or not. Children age 12 or younger admitted free with parent, but are not eligible for prizes. Badges must be worn as proof of registration for entry into any area, including exhibit hall, flea market, coffee lounge, and banquet/dance.

Facilities: Ham Holiday activities will take place in the northwest area of the Myriad Convention Center in downtown Oklahoma City (same as last year). All events Friday will be held on the main floor while commercial exhibits are being set up. Security has been arranged to protect the area at night. Upstairs meeting rooms will be open all day Saturday for forums, demonstrations, and ladies' programs. Saturday night banquet and dance will be downstairs adjoining the main area. Sunday drawing will be in the rear of the flea market / dealer display area.

Programs: Something to interest everyone. There will be the usual number of topical displays, forums, and seminars; but this year we are inviting computer people to present programs from beginning to advanced levels. There will be programs on DX, antennas, satellites, FM, alternate energy sources, and many others. Special groups are planning meetings: ARRL, Night Owls, Oklahoma Repeater Society, SMIRK, and CORA, to name a few. There will be the QLF and QRM contests, as usual. Ladies will have plenty of interesting things to do, although the plans are not yet finalized.

Flea Market: (Non-commercial only) Every person pre-registering gets a free table reservation. The 30,000 sq.ft. area is indoors and air-conditioned, with easy-access loading doors on Sheridan St. for setting up. If any tables are unclaimed Saturday morning, they will be offered free on a first-come, first-served basis.

Accommodations: The Sheraton Century Center across the street has offered us a block of hotel rooms at the reduced rate of \$50 each (unlimited occupants) and free use of a hospitality room during Ham Holiday. Underground walkway will be open to the Myriad and various downtown shops, restaurants, parking, and other hotels. To make reservations, contact hotels directly. See ads elsewhere in this issue.

Parking: Ample underground parking is available under the Myriad at the usual rate. In addition, there is substantial on-street and off-street parking located close to the Myriad.

Preregistration Award



**USE THIS FORM
PRE-REGISTER NOW**

OVER

TAKE A TRS-80® COLOR COMPUTER HOME!



LEONARD HOLLAR, W5FSN
SECTION COMMUNICATIONS MANAGER

Ralph Watkins, WD5PFW is the proud recipient of a "Certificate of Merit" from ARRL for the F.B. Newspaper story in the El Reno paper in January. We are always looking for this type of write-up to send in. Anything that really shows what Amateur Radio Operators can and do do for their fellow man.

I am well aware of the tendency of our fellow amateurs NOT to blow their own horn, seeking to remain in the background as much as possible. However it will help our image with the general public when these things are brought out.

While I write this, I am monitoring activities in connection with the Tornadoes in Oklahoma. Earlier, I monitored some of the storm watch activities. Several operations going in different directions with the same idea in mind. There is room and need in Oklahoma county for a large and viable ARES organization to coordinate and operate all Disaster communications. It is a shame that petty jealousies are hurting this cause. This statement is based on observation and reports that I have received. Just exactly how much is Fact and how much is Fantasy is hard for me to determine.

The thing I wish to see: Is All dedicated amateurs pulling together for the Common Cause of helping our Fellow Man as directed in Part 97.1

I am also distressed at the greater amount of 'Good Buddy' Lingo that is creeping into our operations. Some method of tactfully correcting this needs to be worked out.

I appreciate, very much, the Club Newspapers that I receive from Altus, Duncan, Enid and Tulsa. Perhaps there are more that I don't receive. They help me to prepare the monthly report that I submit to ARRL HQ.

My Hat is off to all the new licensees and recent upgrades in recent weeks.

February Net Report for Oklahoma.				
Net	Sessions	QNI	QTC	WX
O.P.E.N.	4	226	10	
O.F.O.N.	20	300	182	
S.T.N.	24	512	93	
O.T.W.N.	24	473	383	347
O.A.N.	22	124	9	
O.L.Z.	28	229	78	
O.N.O.N.	28	555	93	
Q.C.W.A.	4	156	15	
N.W.O.T.N	12	130	11	

73



STEVE HUTCHINSON
Dist. Office
2919 N.W. 12th St.
(405) 735-0550
Residence: 721-8084
WB5CTS



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GENE NAILON - K5DLE
Avionics Manager

OFFICE 405-681-2331
HOME 405-341-8289



Tri-City Amateur Radio Club is still in existence even though no recent C & E articles. We have tried for 6 months to replenish our supply of proper forms but lack of communications and improper postage just takes time.

Our club has worked for several months on our emergency preparedness plan that is now final and parts will be included further down the article. We also have a new member of the club who has taken his Novice test and looking for his call anyday now. He is a previous license holder and that new member is Paul Kernek, M.D. Welcome back to amateur radio "Paul". Three of our members are planning a trip to Lawton the last weekend of March for the Hamfest and also taking some "goodies" for the swapmeet, they are J.B. WB5VLT; Yvonne WB5TYW; and John WB5UBB so see you there.

Several members of the club responded for the disaster at Ada and stood by at WB5VLT's shack for a call of assistance but not needed. Ada amateurs did a fantastic job handling the communications needs during the disaster.

Holdenville's disaster plan is as follows: WB5TFX Ben, WB5TFY Pat, W05CGN Jeff, W5AUC Raddy, K5ZDB Walt are assigned to home stations to relay to HF nets.

WB5TYW and WB5UBB assigned as rovers assigned where needed.

WB5VLT City Hall, Police station and/or Fire station.

KA5LAX and KA5LAY with WB5VLT and to act as mobiles.

Wetumka plan:

WB5OFC James; work will probably have him at disaster site, otherwise at Police Station.

N5CJH Bill home station to relay to HF nets.

Wewoka plan;

WB5VLS A B and WB5VPS City Hall, Police or Fire station.

W5ITH Earl home station to relay to HF nets.

Area telephone numbers of interest:

Holdenville: Area Code 405

Police 379-6627

Fire 379-2121

Sheriff 379-2203

Highway Patrol 918-423-3636 McAlester

Ambulance 379-2400

Hospital 379-6631

Wewoka Area Code 405

Police 257-3366

Fire 257-2121

Sheriff 257-5445

Highway Patrol 918-423-3636

Ambulance 257-2121

Hospital 257-3311

Wetumka Area Code

Police 452-3273

Fire 452-3213

Hospital 452-3276

WANTS: AVIONICS TECHNICIANS FOR REPAIR AND INSTALLATION OF AVIONICS EQUIPMENT (NAV/COM, PULSE FLIGHT CONTROL) IN GENERAL AVIATION AIRCRAFT.

EXPERIENCE IN GENERAL AVIATION AVIONICS PREFERRED - - BUT NOT REQUIRED

STATE INTERFERENCE BILL--HOUSE BILL 1501 DANGER TO AMATEUR RADIO

Leonard Hollar WA5FSN and Fred KA5CXW both contacted me at the same time concerning a bill that was wending its way through the Legislature concerning radio interference. From what they were talking about, it sounded like this Bill would be a problem for amateurs. The basis of the bill is good. It seeks to make it a crime for someone to interfere with emergency transmissions on Citizen Band radio. The problem is, however, is that any inroad into the exclusive jurisdiction of the Federal Communications Commission to control radio transmissions is a very dangerous activity. If the courts should uphold this bill, it might similiarly uphold bill that prohibit other interference such as TVI or cable interference. Or such an inroad might be used as justification as a proper exercise of state power to limit antenna height or restrict towers.

Regardless of the high motive, we should be very vigilant to attack any effort to make inroads into the Commission's jurisdiction. After hearing from Leonard, I called Representative Mike Lawter from Oklahoma City to get a copy of the Bill. We briefly talked about the bill and he said that it had been suggested by some Citizen Boob operators (they know not what they do). I pointed out what I felt were some constitutional infirmities, the Commission's jurisdiction is supreme under the Constitution, there were already federal regulations against interference and that the bill was an inroad into a matter of exclusive federal jurisdiction. He stated that a similiar bill had been passed in Texas and that the way that the bill was worded that he doubted that no one would ever be convicted under the Bill. The logical response is that if you expect that no one will ever be convicted under the law, why make a law?

I have reproduced the Bill in the next column. There are several problems, but the most important is that the Bill seeks to make it a crime to deal in a particular way with a federally regulated activity. And a person should not suggest that the Courts may declare the Bill unconstitutional after it becomes law. This is risky again assuming that someone will ever be charged under the law. Second, if someone is ever charged with a violation, will he have the time, money and expertise necessary to mount a constitutional attack? Finally, if someone is charged with criminal interference, would a Court really be inclined to allow him a technical constitutional supremacy defense? I think not.

The solution is to attack the law now. Amateur radio operators should contact their state representatives and senators and explain that the Bill proposes to regulate in an area already precluded by the Federal Government under the Communications Act of 1934. The Federal Communications Commission already has exclusive jurisdiction over the control of radio transmissions. The Bill as proposed is probably unenforceable and may be incapable of being amended so as to be enforceable and still not make an inroad into the FCC's jurisdiction. Urge your senator or representative to vote against the Bill when it comes before them and it might not be a bad idea to write the governor urging him to veto the Bill when it comes before him for his signature.

Section 1 of the Bill makes it a crime to intentionally, knowingly, recklessly or with criminal negligence to interfere with emergency type communications over a citizen band radio channel (what if you are off frequency?) Does that mean you are not on a radio

APRIL

House Bill No. 1501

As Amended

HOUSE BILL NO. 1501 — By LAWTER of the House and COMBS of the Senate.

AN ACT RELATING TO CRIMES AND PUNISHMENTS; PROHIBITING INTERFERENCE WITH CERTAIN EMERGENCY TRANSMISSIONS OVER A CITIZEN BAND RADIO; PRESCRIBING PENALTIES; PROVIDING FOR CIVIL DAMAGES; DIRECTING CODIFICATION; PROVIDING AN OPERATIVE DATE; AND DECLARING AN EMERGENCY.

BE IT ENACTED BY THE PEOPLE OF THE STATE OF OKLAHOMA:

1 SECTION 1. A. Any person who intentionally, know-
2 ingly, recklessly or with criminal negligence interferes
3 with the transmission of a communication over a citizen
4 band radio channel, the purpose of which communica-
5 tion is to inform or to inquire about an emergency, OR
6 TRANSMITS FALSE INFORMATION ABOUT AN EMER-
7 GENCY, UPON CONVICTION, is guilty of a misdemeanor
8 and shall be punished by a fine of not less than One
9 Hundred Dollars (\$100.00) nor more than One Thousand
10 Dollars (\$1,000.00), or imprisonment in the county jail not
11 exceeding one (1) year, or by both such fine and imprison-
12 ment. In addition to the punishment prescribed therefor,
13 treble damages may be recovered in a civil action for the
14 bodily injury or property loss resulting from the commis-
15 sion of the offense.

16 B. For purposes of this section, "emergency" means
17 a condition or circumstance in which an individual is, or
18 is reasonably believed by the person transmitting the
19 communication to be, in imminent danger of serious
20 bodily injury or in which property is, or is reasonably
21 believed by the person transmitting the communication
22 to be, in imminent danger of damage or destruction.
23 channel?) In addition to the criminal liability, the
24 statute also proposes a treble damages recovery for
25 bodily injury or property loss resulting from the
26 commission of such an offense. Section B defines
27 "emergency" in such a way that the determination
28 of what constitutes an emergency resides in the mind
29 of the person who is transmitting the "emergency"
30 communications. The bill would not use a lot of
31 objective criteria on which to rest a conviction. It
32 also ignores the fact that all intentional interference
33 is presently illegal under the FCC regulations.
34 It might be suggested that there are portions of the
35 Federal criminal code that are also crimes under state
36 law, for instance, drug enforcement. The answer to
37 this is that Congress has not made drug enforcement
38 an exclusive federal jurisdiction, but they have done
39 so to radio. I don't really have time to go into all
40 arguments and might try to do so next month.

Micheal Salem N5MS

**COMMISSION NOTICE OF PROPOSED RULEMAKING
TO AX DX OPERATION--URGENT RESPONSE NEEDED
TO SAVE DXCC!!!**

A Black cloud looms on amateur radio's future. No FCC action since the incentive licensing proposals in the 1960's could more drastically alter the operation of one of the most basic of amateur activity. Viewpoints around the country are guarded at this time, but it is expected that a firestorm of fury against the Commission will begin shortly.

What is the problem? Well, RM 40182 is a just released Notice of Proposed Rulemaking that addresses the problem of the mess that Big Gun DXing has become. For too long, DX operation out of the United States has been a pimple on the face of amateur radio. The incidence of malicious interference, excessive power, and improper operating technique has finally reached a limit and it is apparent that the Commission intends the pendulum to swing the other way. The Notice can only serve as a warning that the present DX operation is not, in the Commission's mind, in the public interest, convenience or necessity and must be curtailed. In the summary of action of the NPRM, the Commission stated:

1. The Commission proposes to revise the Amateur Rules to correct present abuses in the operation on amateur bands with certain out of country stations. Recent numerous complaints by both foreign and local operators have drawn the Commission's attention to this growing problem. The purpose of this proposed revision is to seek methods to limit the growth of undesirable operating practices in the international communications context.

Now, this is quite a kick in the pants for a "self-regulated service." And a certain turnaround from recent deregulation activity. It can only be concluded that the problems inherent in DX pileups has reached such proportions that the Commission must act or receive unfavorable treatment at the next World Administrative Radio Conference.

There is no doubt that DX operation has become a black eye in keeping with the "Ugly American" amateur radio image. The search for the top of the DX Honor Roll has become more than a mere statement of world unity and understanding. It is a macho and masochistic activity that in its present form is illbred for amateur radio. The Commission noted a few of the abuses in the Supplementary Information:

5. The so-called "DX Pileup" generates a conglomeration of intentional and unwarranted interference, illegal identification and call sign bootlegging, excessive power and discourteous operation such that international goodwill with many new and emerging countries of the third world is threatened. Although the Amateur Service is well known for its self-regulation and despite the Commission's avowed intent to continue deregulation, it is apparent that these abuses can not or will not be corrected. We propose to take steps to limit this abusive activity in such a way that compliance with present amateur service rules will be mandated and more easily enforced. Operators who do not comply will be more readily identifiable and thus subject to heightened administrative sanctions for noncompliance.

Heck, I thought that the Commission always looked the other way when it came to DX operation. Now, they show us that they don't have a sense of humor. I mean, I know that the world won't end if you don't get that station that pushes you to the top of the Honor

COLLECTOR AND EMITTER

Roll, but it might be difficult to prove it to those who are already there.

What does the Commission propose? Well, you are probably not going to like it. They acknowledge that some of the present abuses are currently illegal, but lack of enforcement ability makes it difficult to do anything about it. As always, the Commission lays off this problem to lack of enforcement personnel and budgetary constraints. Recognizing their internal limitations, the Commission proposes to require a prior filing of a "Notice of Intent to Engage in International Communications" that once filed would be good for a certain number of DX stations and limited period of time. Having thus been previously advised by the U.S. amateur that he will be calling a DX station on a certain frequency and time, the Commission would then be able to properly police the DX pileups. Stations that operated without prior notice would be subject to administrative discipline including license renewal reviews, suspension or temporary revocations. Now, this could be strong medicine. Who would jeopardize that precious commodity of their license by foolishly calling a DX station without prior notice to the Commission.

The rationale appears to be based on a principle similar to that determined by those sociologists and psychologists who study overcrowding in rats. Just as those experiments have shown that overcrowding leads to antisocial behavior, so has the Commission determined that overcrowding in the "frequency" sense creates the antisocial behavior of DXers. It is apparent also that the DX station that comes up on frequency to call a friend will be allowed to make his call and not beset by hordes of RF locusts all calling his name and call in unison. It is expected that there will be a "ripple" effect as the DX station continues to operate and that the net result will be a greater and greater population on the frequency that is regimented by the notice requirement. Although this type of argument is similar to the Ban on 10 meter amplifiers, the Commission may continue despite the rationale that "10 Meter amplifiers don't cause interference, People cause interference."

Will it work? I dunno. I think that the net effect will be to give DXers another rule to break along with the others. The recent trend of the Commission has been to deal with an illegal activity by ignoring it until the problem became an enforcement activity, then legalize it so that everybody would not be a criminal. This occurred with the Citizen Band and satellite downlink stations. In this instance, I am sure that it is quite unthinkable that the Commission would legalize excessive power, malicious interference and bootlegging. I don't think that their method will solve the problem since it does not address itself to the problem of DX abuses. In seeking regulation, it may well ascerbate the very problem it seeks to control.

Nothing is set in concrete about this problem. The Commission recognized the difficulty of its undertaking in acknowledging that its proposals do not directly address the abuses:

12. It is conceded that a systematic requirement of notice prior to intended international communications may not completely curb the abuses recognized under this Notice. Further, the requirement of notice may be unduly burdensome on those who intend to operate and communicate with certain foreign radio stations not of the "rare" variety. To that end, we propose to began negotiations for "second party agreements" with such countries that constitute a waiver of the notice requirements. The selection of such "second party agreements" with particular foreign countries for continuous waiver of notice will be made on a case by case method with the ultimate selection criteria to

be a determination based on objective criteria of the foreseeability of the creation of a large operating population around the local frequency of operation of any foreign operator operating from the country.

13. It is also conceded by the Commission that the proposal herein will severely limit communications by United States operators with foreign amateur operators. Further, the Commission's proposal will also severely limit those operators in the amateur service who regularly engage in "DXing." In response, the Commission feels that the heightened quality of exchanged communications between United States and foreign operators may make up for the expected limitation. Second, so-called "DX" activity has no official sanction in its present form under our Regulations, except insofar as its occurrence has created the problem addressed herein. Conceding the speculative nature of the proposed remedy, the Commission proposes to impose the notice requirement for a period of probation extending from April 1, 1983 to April 1, 1984. Following the probationary period, the Commission will again reopen this proceeding for public comments to determine the feasibility of continued notice requirements as a solution to the problem or whether to seek alternative solutions.

It appears that the Commission may well use this probationary period as a warning to DXers to "clean up their act", suggest another potential solution, or face continued Commission interest or sanction.

I suspect that the howls over this latest proposal will be long duration and of a very high pitch. It is a possibility that it may also not make it out of the starting gate. The notice was published on the first day of April and comments have been solicited until July 1, 1982. Reply comments are due by no later than October 1, 1982. This is a short fuse. Save DXCC!!

Micheal Salem N5MS

NOW DON'T FORGET DAYTON!!

What is Dayton? Breathes there an amateur with soul so dead who never to himself has said, "I'd always rather be in Dayton instead." With all due respect to that musical giant, the Count of Basie, the spring song is not "April in Paris." Nay, Nay, nothing would give my heart a greater lift than to hear the Mills Brothers swing into "April in Dayton." And you should also. This year, the festivities kickoff on Friday, April 23, 1982 and continue through Sunday, April 25 to about 4:00 p.m. for the prize drawing. And Mama Mia! What about the prize drawing? Just a measly complete Collins KWM-380 Transceiver station, that's all. Drake is not to be outdone, Second Prize is a complete TR-7A station including an L-7 Amplifier and MN-2700 Antenna Tuner. And a lowly complete Kenwood TS-830 S station including the remote VFO-230, AT-230, SP-230 and TL-922 Amplifier is the third prize. A bit of a demotion for a similar grand prize three years ago won by our own WB5YWO from Stillwater. I think that Jim will be shooting for the KWM-380 this year. Some of the other minor prizes are a couple of TR-2500 W/T's, C-22U and IC-290 Transceivers (Hey Icom, why don't you guys cut loose with an IC-720A?)

Now, I have never won anything at Dayton so I don't want the prizes. WB5YWO is a different story. They don't call him Lucky Jim for nothing. And that goes ditto for Joe K5JB. He took the Grand Prize at Ham Holiday a couple of years ago.

So, I don't go to Dayton for the Prizes. That is wistful thinking. I do, however, go to Dayton for the Flea Market. It starts on Friday at Noon when the gates for the hamfest swing open and continue until they shoo the people out of the blocked off parking lot at the Hara Arena on Sunday about 4:00 or so in the afternoon. And what a show!! The absolute greatest fleamarket on earth, bar none. I'm not joking! I don't really know how big it really is, but it is big. I spent almost the entire time last year in the flea market and never really got through it thoroughly.

I wax on because my brochure came in last week just about the time that the convention office confirmed my reservations at one of the local Holiday Inns. K5JB and myself have put our heads together about transportation, but unfortunately the 2 for 1 sale was not that good a deal into Dayton. American had only one flight a day in and out of Dayton and the times were very inconvenient. Braniff doesn't go all the way to Dayton. WB5YWO and I now have commercial reservations, but there is still an outside chance that the weather might be so good that the siren song of the private plane might call. The baggage requirements are a little easier.

The brochure is 10 pages long and jam-packed with info. I have never attended a Forum at Dayton, but might take some time off on Saturday and catch the Repeater Control Forum featuring a Fifth Generation Amateur Radio Repeater Controller. Dr. Robert Stone WB4YCB will also discuss using a microcomputer as a controller for Amateur Radio. The forums also feature the usual DX forums, Contest forums, Air Force Mars, etc. There will be a 10 Meter FM forum, ARRL Technical Forum, and the FCC will be there. I am also interested in the Spread Spectrum Communications program, Packet Radio, Amsat, and a Homebrew Equipment contest. Roy Neal K6DUE, Bill Pasternak WA6ITF, Fred Maia W5YI and others will participate in an Amateur Radio and the News Media Forum that looks interesting. Maybe I will actually get to see one of these this year finally.

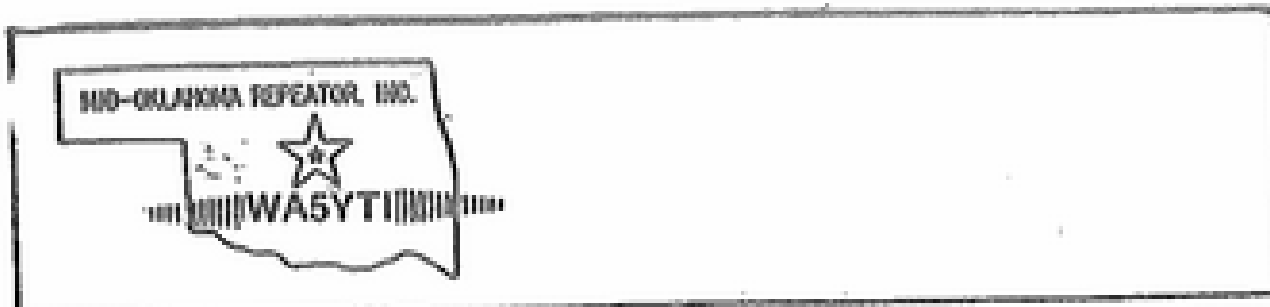
Dayton is not exactly full of your local hotspots, but Bob K8?, Keith WA8ZWJ and others generally find a fine restaurant for the evening meal each night. I know that there is a Burlesque house in town, but as far as I am concerned, I went to Dayton to go to the radio convention, not take up any other type of philandering activity.

The list of commercial exhibitors includes just about everyone who should be who in amateur radio. There are over 150 different commercial exhibitors alone. There are numerous others of a small commercial nature that set up in the Flea Market.

Information about the Hamvention can be obtained by calling (513) 849-1720 or writing Dayton Hamvention, P. O. Box 333, Dayton, Ohio 45405. Registration is just \$7.00 per person in advance. The Hamvention group also gathers up just about every useful motel room within 50 miles or so. You can reserve a room by writing Dayton Hamvention Housing, 1406 Third National Building, Dayton, Ohio 45402.

These guys are well organized. Each year they accommodate an unbelievable crowd (upwards and surpassing 20,000) safely conveniently, and interestingly. They spread the work over about 25 different committee heads whose activity is just a little short of amazing. Sooo, Mecca is not really as far away as you think. You don't have to cross the ocean, just the Mississippi and this Mecca features a flea market that won't quit.

Micheal Salem N5MS



Hi Everyone!

Well, I see that it is time for C&E again, and so far I haven't received anything from anyone to publish, so I will try my best to give you some news that I have either observed or heard in the past few weeks.

First of all, I would like to say "Congratulations" to Chris - KA5MYX who recently upgraded from a Novice to a General at the beginning of this month during a recent trip that he (and friends & family) took to Dallas. Chris is a very intelligent guy, and I just bet that he will assist in Public Service or some of the other things going on. He has already made several contacts with many other "hams" all around on the C. W. frequencies.

*** I was very happy to hear KA5HGU back on 2-meters the other day, and that he is recovering from a fall on the ice that broke his hip, and also in the same week, his wife was hospitalized. I knew that not even a broken hip would keep "Wake" off the airwaves -- HI! I know that to be partially true, because he had a radio in his hospital (like most of us would) when I went to see him a few times. Glad to hear the reports on recovery.

** I went over to Ken (K5VVZ) and Rosemary Easons' house the other night and heard about their trip to Hawaii. I sure do envy them, but their stories were very fascinating and also the pictures were beautiful. They brought me back a name patch with Susie on it -- which is "KUKE" in that native land. (By the way, that isn't pronounced KOOK - KEE either). Thank you Rosemary and Ken, I really do like it.

Well, March is just about over, and it might be by the time you get this, but there were quite a few activities this month, most of which were dealing with "weather" in reference to tornados, etc., all presented by some of the local clubs etc. I attended most of them, and I always enjoy seeing them over and over, because I always seem to see something I might of missed before, and they are always very informative. Be sure to watch your or look on the calendar on the back page of C&E for dates, times etc., of what is going on, and join in. At the last MORI meeting, our President, John, KC5HD resigned from our club, and we are in need of a President, so if you know some one (or even if YOU are interested) get in touch with one of the nominating committee.

Susie, KA5FED



BICENTENNIAL AMATEUR RADIO CLUB

"To Promote Radio Communications"

Sponsored by Oklahoma Air National Guard
Will Rogers World Airport

The program for the March meeting of the BARC was an extra special treat. We all got a good look at most of the popular home computers. Those represented were: the Radio Shack TRS 80, an Apple II, and a Heathkit H89. Two other models that were particularly interesting were the homebrew model, nicknamed a "Maschino Special", and a micro mini job that made the others seem like boat anchors in a size comparison.

We all got to see just exactly what each model could do and what they could't. Two programs that caught my eye were the "Spell-Star", a word processor that actually proof-reads your own manuscript and points out any spelling errors, and the RTTY programs that make your model 15 obsolete. Unfortunately, no one had a modem setup with their computer and we were't able to see ASCII in action, but maybe we can get a live demonstration at another meeting.

I want to thank all the people who went to the trouble to bring their computers out to the meeting: Jerry N5AUH, Don AE5N, John KH6JTE, George K5GGL, and Allan WB5NER. We all enjoyed it.

I had my doubts about how much the Heathkit could help my awful spelling and punctuation, so I tried it myself, and here it is. I for one am impressed.

Bruce, KC5CR

WHEN IS A STATIC CHARGE PRESENT ! ! !

You can never be sure if you or the items you are working with has a static charge. But small charges up to 100 volts are common and large charges up to 35000 volts could be present.

Examples

- A person after walking on carpet
 - up to 35000 volts on a dry day
 - up to 2000 volts on a damp day
- A person walking on a vinyl floor
 - up to 12000 volts on a dry day
 - up to 400 volts on a damp day
- A person on a padded chair
 - up to 18000 volts
- Styrofoam coffee cup
 - up to 5000 volts
- Plastic solder sipper
 - up to 8000 volts at tip
- Plastic or scotch tape
 - up to 5000 volts
- Vinyl covered notebook
 - up to 8000 volts

Electro Static Discharge

- TO FEEL IT — 3500 Volts or more required
- TO HEAR IT — 4500 Volts or more required
- TO SEE THE SPARK — 5000 Volts or more required

Many electronic components including those in the chart below are susceptible to damage from a static discharge. Voltages far less than you can feel, hear or see can degrade or completely destroy components.

ESD Susceptibility of Various Electronic Devices

Device Type	Range of ESD Susceptibility (Volts)
VMOS	30 to 1800
MOSFET	100 to 200
GaAsFET	100 to 300
EPROM	100
JFET	140 to 7000
SAW	150 to 500
OP AMP	190 to 2500
CMOS	250 to 3000
Schottky Diodes	300 to 2500
Film Resistors	
(Thick, Thin)	300 to 3000
Bipolar Transistors	380 to 7000
ECL (PC Board Level)	500 to 1500
SCR	680 to 1000
Schottky TTL	1000 to 2500



THE UPPER BANDS (or; Worlds above the rest)

Noe one can argue that a weekend goes faster when you can con a friend to ferry you and a few of your other buddies to one of our regional hamfests or a swap meet. Not so many days ago I amazed even myself when I called on Roger WA5JXX to suggest that he, I, and some of my other friends take his plane to the HYDRO HAMTHROW here in Oklahoma. When he said "uncle" I released the armhold, and, with bird in hand, so to speak, I called on my old friends, KTOK, KSELL/R, and K5JB to come along with us. Only K5JB gave me a definite "maybe," but relented when I offered to spring for my fair share of the banquet pizza on awards night. Talk about plea bargaining!!!

The HYDRO HAMTHROW is famous for its flea market. Last years Hamthrow was nearly devastated when the local fleas opted to accompany an unescorted mongrel that was chasing the QST Stray out of the Hamthrow Complex near the Welcome to Hydro sign. The local animal control offiver caught up with them and persuaded the fleas to return to the Hamthrow. Talk about flea bargaining!!!

Joe and I got to the flea market a little late. The taxi he agreed to pay for took a while to get here from Oklahoma City. But the market was a plethora of some of the most amazing equipment available anywhere. While I was attracted to a table covered with surplus gear, Joe was attracted to the blonde, bikini-clad "resonator;" and Roger was busy buying radar paint and prop wash for his plane. We will discuss their "priorities" later...

What I found most interesting was a ESHFT transmitter the surplus dealer has a boxload of. It was obviously military surplus, but the dealer, who also dabbled in Amx-Oil, Tupperware and Florida land deals assured me that Milspecs were met, but he didn't have any data sheets or schematics. He did say, however, that he thought the device worked on a frequency of about 2500 angstroms.

The cylindrical case housing the electronics appeared to ne some type of phenol formaldehyde plastic with a black body and yellow end caps. The radiator itself is enclosed in a clear glass bulb, and mounted in front of a parabolic reflector, giving it a gain of about 20-dB. Both the radiator and reflector were protected by what appeared to be a 2-mm thick piece of methyl methacrylate resin. The electronics were fairly straih forward. Without going into much detail, it appeared that the device was designed for operation on A1 only (but I suppose it could be modified for A3 as well). The interesting thing was that the device required an awful lot of current for proper operation--nearly all of the space inside was reserved for two 1 1/2-volt "D" size batteries!

This was obviously prime surplus. I later learned from Joe that his brother had done extensive research in the kilo-angstrom region and that 2500 angstroms was equivalent to about 1200-THz--well within the ham bands. The radiating element is a doulbe-wound solenoid, and is very lossy when excited with DC. Bandwidth, too, was a problem, but the FCC assured me it would be no problem--unless of course, if it interfered with other communications services. Finally, the unit was designed to operate with a unique two-function switch. The switch could be slid forward or backward and had an intermediate detent. In the mid-range position a small button switch could be used to send Morris code 9I renamed it after my Uncle Morris).

Continued on page 21



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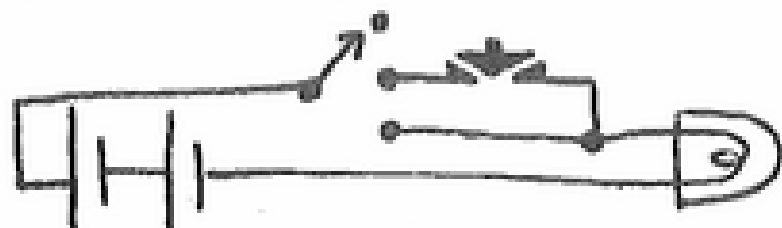
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Back at my lab in Norperson, I put the device to the test. I loaded it with several dry cells I always keep on hand, put the switch in the intermediate position, and tapped out "V DE N5MS." Then it dawned on me I didn't have a receiver for these frequencies! Not to fear--after all I have lots of electronics experience, especially as higher frequencies. You'll recall my experiments at jamming police traffic radar (and, I learned later, also defeated NORAD's Distant Early Warning Radar system and grounded four AWACS planes). The test gear I



made for my 1200-MHz tests consisted of selenium diodes wired in series with a microammeter. Simple, but proven effective. This new gadget really works great! But what we need now is a bonefide receiver and someone to communicate with. If anyone else is working the upper bands with one of these devices, please let me know. The only marking on the box was:
FSN 6230-00-299-3035, Flashlight, 1 ea.

NEXT MONTH --How Doppler Shift affects mobile operation and how to eliminate static caused by lightning bugs.

Holly, KD5DL

(Joe-- Last night my tongue got caught in my cheek, and I thought I'd have a little fun with Mike Salem. If you think the attached is appropriate for an APRIL POOL issue of C&E, feel free to use it.

I think Mike is a marvelous person and always look forward to his articles. 73, Holly.)

For Sale - Tempo 2001 2KW Linear Amplifier 10-80 mtrs 2 new 8874 ceramic tubes - desk top unit in excellent condition. Call Henry, N5IH 722-3848.

WARNING: THE SURGING GENERAL (class operator) has determined that this month's issue of the Collector & Emitter may be hazardous to your mental health.

The Lazy Eight Flying Club is accepting applications for new members. Club operates a Cessna 172 out of Wiley Post. Call Stan, WB5UIY, at 946-2608 or Ben Ratzlaff at 751-9030.

FOR SALE: HEATHKIT GENERAL CLASS COURSE (LIKE NEW) COVERS CODE AND THEORY... CALL JIM OR GLORIA AT 405 751 6698

ARGONAUT 509 (late model) QRP CW/SSB bandswitching 80-10m Transceiver, with CW filter, Crystal calibrator, and full 10m band with inter-cables. In good condition. Operates on any 12vdc source. \$250.00. Rob AAØO 373-1818.

TEN-TEC OMNI Analog, factory converted to Series "B". Complete Station; with noise blanker, notch filter, crystal calibrator, Remote VFO, Omni Powersupply, all interconnecting cables, and complete set of manuals. Super-good station. Make Offer. Rob AAØO 373-1818

I'm LOOKING FOR certain 1950's era AM transmitting equipment. Also looking for Collins 74A4 receiver and Hammarlund "Noise Immunizer" impulse-type noise blanker for HQ-180-A. Could also use certain old CQ's, QST's and Ham Radio's. Charles Frodsham, KØAYS, 348-7682.

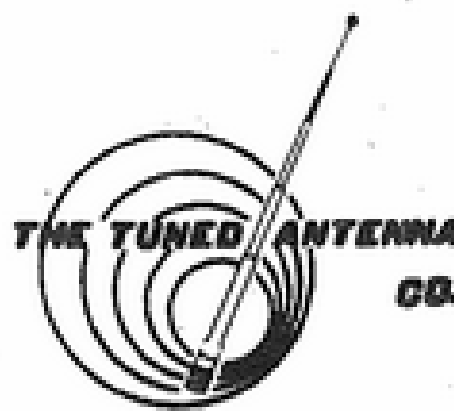
For Sale: Dentron GLA1000B amp; 80-10m.; rated 1 KW input on cw and 1200 watts pep on SSB; tuned inputs for use with solid state transmitters; will operate on 120 VAC or 240 VAC. \$300 Call Ron KE5M 341-7030.

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UNIVERSITY OF OKLAHOMA

Amateur Radio Club 146.28/.88

The OU Club station, W5TC, is back on the air after a three month absence. A new 80-meter inverted "V" antenna was placed on a 35 foot tower located on the west side of Wilson Activity Center. Also, a Ringo Ranger was added to the top of the tower. The club is in the process of obtaining a synthesized 2-meter rig for the ham shack.

Our novice classes are continuing with six students. I feel that with heavy work loads in regular university classes, we are fortunate to have six persons willing to take on the additional responsibility of studying for their amateur licenses.

A suggestion has been flying around that we provide communications for the 89'er Day Parade in Norman in mid April. I think it's a good idea and will bring positive public exposure of the club's resources. We will be discussing this in the near future.

Again, thanks to Ken, N5BEW, and Gayland and Richard for helping Peter, KA5CQI, and myself put up the tower and antenna for the club.

Meetings are the Second Tuesday of each month at 7:00 pm in 119 Wilson Center at 1334 S Jenkins, Norman.

"73"

Greg, KA5LZN

ZEDD EXPLAINS MEANING OF LIFE TO THE BOYS

Some of the boys were sitting around the SCARS shack the other day, warming their feet on the power supply for the TS-120 and talking about late wintry bluster and how it would likely affect DX come summer, when WHANG! (not to be confused with Wang, the computer people), the door flies open, and into the shack with a few late snowflakes and some of last year's Johnson grass comes the great Q.R. Zedd himself.

"Howdy, boys," says Zedd, turning down the volume on the TR7 he has attached to his Elton John tee shirt with velcro tape, "how's DX?"

Well, at that, naturally nobody said a word, because having the great Q.R. Zedd ask you how DX is is a little like having Bill Banowski ask you if you have any good ideas for raising money. W5MCN sort of looked off in the general direction of the 2-meter rig, and W5SQJ got so flustered he spit his Juicy Fruit instead of his chewing tobacco into his plastic cup, but other than that there was silence and obvious deep respect. WA5MLT, joining club members for his semi-annual visit, cleared his throat; WA5RPP, intrepid club reporter, leaped to his Big Chief tablet; N5DWN opened her portable filing cabinet to get out her latest 312 QSL cards. But no one spoke.

Suddenly and without warning, Zedd, pricking his ears, leaped to the club 120, advanced the af gain, and thumbed the keyer. A burst of CW at about 80 WPM boiled into the ether. Zedd listened to what sounded like QRN and possibly a berserk Cuisinart to the rest of us, nodded, sent a couple of R's, a 73, an SK and his callsign, and leaned back from the rig.

"My pal Rhandi in VU-land," Zedd explained. "I waited to make sure no one else in the room wanted to work him, but I didn't want him calling CQ indefinitely. I hope nobody minds."

"No one else heard him," said AF5X, "except the two real CW operators on the premises, Q.R. -- you and me."

"Well," said Zedd modestly, stuffing shag tobacco and shredded DXCC stickers into his ancient clay pipe, "that only illustrates what I have often tried to tell novice DXers -- you know, guys with fewer than 350 countries. Half of working the rarer ones is in good listening. Listen, listen, listen! And don't talk so dadblamed much. If I have said it once I have said it a thousand times, you shouldn't talk all the time, you should listen. Even if you are not going for DX but only engaging in casual conversation, in my opinion it is only good manners to keep your mouth shut and your ears open. Remember the old saying, little pitchers have big ears, and that goes for the great ones like Johnny Sain, too. Silence is golden. You show me a man who talks too much and I will show you a loser. It's like I was telling Tondelayo the other evening, any fool can get in there and talk a person's leg off, but it is a mark of greatness to be succinct and still make the contacts. Are there any questions so far?"

"Q.R.," said W5OU, who had just arrived, "I think all of us would truly appreciate it if you would tell us what you think lies ahead for amateur radio."

"Yes," said KC5CU, "and while you are at it, if you could tell us the meaning of life, some of us younger boys would sincerely appreciate that, too."

"What I think lies ahead for amateur radio is a decline in the sunspot cycle and a rise in the cost of equipment," Zedd said briskly. "As to the meaning of life, I will tell you a little story that I think illustrates my view on this matter."

Everyone leaned back to listen except RPP, who flipped over to a clean page on the Big Chief tablet.

"It was in 1969, I think," Zedd resumed, "when I made my one-man Dx-pedition to Africa, that I learned the meaning of life. I landed in Kenya about 2 a.m. on a beastly hot day, don't you know, and immediately began setting up my tent, antenna farm, and so on, working single-handed except for the meagre help offered by 29 native beaters, three technicians from RCA and the crew I had hired from the Yasme Foundation. Well, as you can imagine, we were all pretty tired by the time we were ready to start operating about four hours later, and everyone went off to bed except me. I jumped right onto seventy-five and gave my name a couple of times, along with my call, and got a right nice pileup going.

"I was working 'em right along just as dawn came, and I heard a small sound beside me. Yelling for everybody to QRX (which is DXer's lingo for 'Everybody else shut up and let the 4s call incessantly by themselves for a while'), I turned and stared straight into the eyes of a huge male lion. At about the same time, he let out a blood-curdling roar, showed me about 300 sharp teeth, and enveloped me in the nastiest case of zebra-breath it has ever been my misfortune to encounter.

"Obviously Mr. Lion was hungry, and obviously he figured I was going to be his next meal. I had to think fast. So what I did was shove the microphone into his face.

"Well, boys, you may not believe it, but Mr. Lion took one look at the microphone, let out another terrible shriek, and turned and ran out of there just as fast as he could go.

"And we never saw him again.

"Just about the worst case of mike fright I ever saw for my own self."

Zedd sighed and puffed his latakia. "Which led me to the insight I have since carried close to my heart about the meaning of life for any DXer. And that is this. When in doubt, grab for the mike; and never be concerned about lion."

--KU5B

The Altus Area Amateur Radio Association met at the North Main Fire Station at 1935 hrs on March 11, 1982. Twenty Hams and three visitors (wives) attended the meeting. Those present were: WB5MJS, WB5NRQ, WB5UMH, KA5KVU, WD5BBV, K9PNT, KA6RTX, W5VXU, WA5OGC, WD5DTX, WB5VRJ, WD5FJE, WD5CVF, WA5GBJ, KA5MPK, WB5KRH, K5KCJ, WB5BBO, WB5MEK, WA5CHF, Mary Gilmer, Ruth Meeks, and Jaquita Martin.

After a round of self-introductions, Chuck Smith, WB5MJS, spoke briefly on the importance of the interested radio amateurs joining the list of stations who want to participate in the state sponsored RACES program. Bennet Basore, the ARRL State Emergency Coordinator, can be contacted for more information on this topic. The local Emergency Coordinator, Dwight Dennis, WB5KRH, should have the necessary registration forms.

Loren Simms, WA5CHF, the AAARA Secretary-Treasurer, next gave the financial report as of 3-11-82. We have currently \$382.16 in the bank. The club still has some amateurs who need to send in their dues. Those behind are WB5LAF and WB5MM. Loren said several reports and correspondence had been sent to C.O.R.A. (C & E), to Leonard Hollar, WA5FSN, and the Club and Training Dept of the ARRL.

Dwight Dennis, WB5KRH, the Jackson County Emergency Coordinator, passed around the registration forms for RACES to be filled out. These will be sent in to the State Department of Civil Defense, Oklahoma State Capital Complex, Oklahoma City, Ok. 73105.

Norman Green, WD5DTX, of Duncan, Oklahoma reported on the club activities in the south-central portion of the state.

Joe Wavra, WA5GBJ, President of the Lawton-Fort Sill Ham club, gave a short report on the upcoming Hamfest in Lawton on March 27-28, 1982. Their hamfest is scheduled for 7:00 am to 4:00 pm and 8:00 am to 12:00 noon respectively. Their talk-in frequency will be on 146.28-.88 MHz and the alternate frequency will be on 146.52 MHz simplex. Joe asked several questions about our weather watch program and the repeater linking project.

Dwight and Chuck next reported on the status of the repeater linking project. They said the 146.25-.85 MHz repeater and link to be installed permanently at Wichita Falls has been tested on the air for the past two weeks. These tests have been conducted at the location of Dan Osborne, WB5AFY. Some bugs have been found in the initial tests and will be worked out before it is placed in operation in Wichita Falls. It is expected to go on the air within two weeks.

Dwight also stated that the Cement project is coming along. More parts have been arriving lately. This linking project is still full steam ahead.

Oliver Meeks, WA5OGC, reported that a new Novice is on the air in Snyder, Oklahoma. He is Todd Porter, KA5NKZ, and it the ripe old age of 12.

Oliver said there should be another Novice by the name of Bob Turner who lives in Mountain Park, Ok. within a matter of weeks. Congratulations go to both Todd and Bob. Bob took his test about 6 weeks ago so he would have known by now if he had failed the test.

Joe Wavra, WA5GBJ, had a question on the Southwestern Ok Severe Weather Net. Deanna McEndree, WB5UMH, is the main net control who works out of the North Main Fire Station communications room. We have no formal net (as it delays the flow of information) but it is still tightly controlled.

Dennis Ratzliff, KA5KVU, reported on the weather information meeting put on in Oklahoma City by Gary England and Channel 9-TV. He said there was not too many Hams who attended this meeting from the southwestern part of the state. Dennis said there was some praise bestowed on the weather watchers in our area. He said Gary England put together an excellent program composed of video tapes, films, and slides which lasted about an hour. Dennis estimated the turnout for this program at between 200 and 300 people.

New Business included the appointment of Loren, WA5CHF; Dwight, WB5KRH; and Gary, KA5MPK to form a Field Day committee for 1982. They are scheduled to make a report at the next club meeting.

Mike Schenkel, W5VXU, along with Ralph, WD5BBV, and Bob, N5AIP was placed on a committee to find out information about the Mangum Rattlesnake Roundup scheduled for April 16, 17, and 18. We had a public relations booth there last year.

Mike also reported on the progress of the Air Force MARS program at Altus Air Force Base. He said that Mike

Davis, WA5PHV, will be the new ass't MARS Director. Mike said there are currently 4 Hams who are active in A.F. MARS here in our area. He said there was a lot of traffic in and out of this base.

Following Mike's report there was a break for cokes and cookies. The cookies were of the home-made variety and baked by Deanna, WB5UMH. They were excellent!!!!!! The chocolate-chip cookies simply melted in your mouth, they were that good! The club members who missed this club meeting really lost out on some good treats. Much thanks goes to Deanna who is an excellent cook!

The meeting closed at 2041 hrs. The next scheduled meeting is for 1930 hrs, North Main Fire Station, on April 8, 1982. Come out and bring a friend.

The writer would also like to thank those who travelled so far to attend this meeting. This is especially directed to Norman Green, WD5DTX; Bob Mosier, WB5VRJ; Woody Truitt, WD5FJE; Joe King, WD5CVF; and Joe Wavra, WA5GBJ. Thank you for coming and visiting with us as we are always glad to have Friends drop by.

The writer would like to stress the importance of support for the Oklahoma Repeater Society. The O.R.S., Inc. had a winter meeting on January 30, 1982 at Stillwater, Ok. One of the items brought out at the meeting was the report by Dan Prater, the Treasurer. Dan reported that at least 2/3 of the members of the ORS were arrears on their dues. Lets try to back this fine organization with your membership dues. It is just \$3.00 per year. If you feel the call to join, send in 2 or 3 years dues at once. Thus you don't have to worry about it for some time. It is a fine organization really trying to solve some of the problems and head off some of the problems which exists on our two meter band. I want to thank Chuck Smith, WB5MJS, for sending in a 4 year membership. Memberships to the Oklahoma Repeater Society can be sent to Dan Prater, K5CAY, P.O. Box 261, Enid, Oklahoma 73701

The following Hams are all due congratulations for up grading their licenses this past month:

- 1) Paul McEndree, WB5BBO- Technician 2-16-82
- 2) Charlie Woodworth, N5DKZ- General 2-23-82
- 3) Steve Sappington, KA5KTJ- General 3-2-82

Charlie, N5DKZ, was so determined he drove to Tulsa to take his General test!

We hope to soon hear two new Novices active in the Hollis area. They are Danny Watson (former WB5YGT) and Delayne Randolph. Danny is not a new-comer to Ham radio as having a Novice ticket back in 1977 and letting it expire! We also heard that Delayne is "itching" to get on the air as he already has purchased a new Yaesu transceiver. A warm welcome to both.

The club needs to start thinking about the 1982 Field Day. We have approximately two months to discuss and think about it.

Last Field Day, 1981, WA5CHF, set up a small H.F. station at the north park by the reservoir in Altus. The FUN Field Day site, the writer has heard of, is down in Texas at Joe Don Brown's W5MCS site. Rumor has it that the food was delicious and the company was great. It w an example of typical Texas Hospitality.

THE WAY IT WAS

The following information comes from an interview with Barto Huff, W5AHD of Lawton, Oklahoma on 2-15-79.

Barto's call is W5AHD which was issued to him in 1922. He was the first amateur radio operator in Altus, Oklahoma, Jackson County. He left to live in Lawton in 1951. Contrary to thought, Barto did not start out with the typical spark transmitter, but with CW using tubes such as the UV202 (\$7.50) in the transmitter. He used a UV216 for the rectifier tube. In those days to really go high power required a 202 A (which cost \$38.00). The receive used a 201 A (\$9.00) and a UV 200 (detector).

The first known club in the southwestern corner of the state was the old North Fork Amateur Radio Club (circa late 40's and early 50's). It was centered in Mangum. There wasn't any clubs in Jackson county in the 20's and 30's.

Barto reminisced about going to the Hamfest in 1939 to Abilene, Texas. Raymond Willis, W5ATO, and he had the first 80 meter mobile rig (in 1939) and travelled down to Abilene. Sonny Bell, of Hollis, started about 1939.











The next person to acquire an amateur license was Ernie Bacum in the 1930's. Next came Gramps Martin, W5IZM, the father of Frank Martin, K5KCJ.

World War II brought a shut down of Amateur radio activity in Altus. Barto also stated that it was a little slow around here starting up following the war.

A person that lived next to him (Barto) was "Doc" Holt, K5SKB.

LCS WA5CHF


N A M H A P P E N I N G S REFER TO CLUB SECTION FOR SPECIFICS

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
APRIL				 DINNER MEETING 1	 2	3
		HORI  6 GP	7	8	9	10
 4	5	 13	14	kay 15	 16	17
11	OK DX 4650C. 12	 19	21	22	23	24
18	 25	EDIT  26	CORA  28	29	MAIL C&E 30	

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