



the
B-VARC
BULLETIN

of
BRAZOS VALLEY AMATEUR RADIO CLUB, INC.
Ft. Bend and Harris Counties, Texas

Vol. 6, No. 3

March 1983

Editor -- Stu Lawkin WB5IGG, 7401 Heilig, Houston TX 77074

Production -- Vic La Rocca K5KNH Cathy Schneider KA5BNC

Publication Deadline:

**The 3rd Thursday
of each month.**

CALENDAR

Next B-VARC -- Regular membership meeting - Mar. 10, 1983
-- Board of Directors meeting - Mar. 17, 1983

Nets -- B-VARC 2M - Public service - Mondays 9PM, 144.85/145.45 MHz
-- Ft. Bend County ARES - Mondays 8:30PM, 144.85/145.45 MHz
-- B-VARC 10M - Ragchew - Wednesdays 8:30PM, 28.700 MHz
-- West Houston RACES - Sundays 8PM, 146.07/67 MHz
-- Ft. Bend County RACES - Tuesdays 9PM, 146.16/76 MHz
-- Hella Hams Fone Patches for Sick Kids - Wednesdays 7:30PM, 3.955 MHz
-- Houston Area Traffic Net - Mondays, Wednesdays, Fridays 6:30PM,
147.60/00 MHz

Conventions -- Ham-Com/ARRL Texas State - June 3-5, 1983 in Dallas
-- ARRL National - Oct. 6-8, 1983 in Houston



OUR PRESIDNET SAYS--

We had a nice turnout at our February club meeting. I would like to thank ANDY McALLISTER(WA5ZIB) for his informative program on satellites. We also gained several new members. Keep on talking up the club on the repeaters, it helps.

Thanks to those Board members, officers, committee chairmen and interested members who participated in the last Board meeting. We covered a lot of important areas and were quite productive. We were in session from 7:30 until around 11:00. That shows a lot of interest and concern. Thanks for the input. The next Board meeting will be held at Ron (KA5GYG) and Ethel Bolyards home. All members are encouraged to attend.

Please start thinking about field day and how we can continue to make it a bigger and better event. Contact Louis (KD5GM) when you come up with helpful suggestions.

Have a good March,

73, Steve Gottlieb WA5OEN

VP QSO---

Thanks to all of the officers, Directors, and Committee Chairmen who attended our meeting of the Board at Steve's house. We had a good exchange of information and thoughts. Many of these ideas will be offered to the membership by way of future activities, programs, and functions. Once again, please feel free to contact any chairman or officer if you have any ideas to put forth. We welcome all ideas that will benefit the club and offer the majority of the membership worthwhile learning experiences. **BECOME INVOLVED!!!**

Thanks to Ed Truitt, KD5JC, for volunteering to Co-Chair the SPECIAL EVENTS committee with Dick Hagerman, WB5SRN. Both Dick and Ed have much experience in furnishing and handling communications for walk-a-thons, marathons, etc. So those of you who wish to help in these activities, please contact Dick or Ed for more information.

The Honeywell Amateur Radio Club will be sponsoring the Annual Teleconference Radio Net on 144.85/145.45 repeater on March 3 at 7:30 P.M. CST. This will be a telephone link to repeaters in various large cities throughout the U.S. WB5RDK/RPT is the Houston representative to this link. The subject will be "The Future of Amateur Radio" presented by Vic Clark, W4KFC, President of ARRL.

Come and Join in on the Fun!!

CUL on this frequency next month and I hope to see you all on the B-VARC nets and at the regular membership meeting on March 10.

73, Ron Bolyard, KA5GYG

IT's \$2.00 for B-VARC---if you renew your ARRL membership or join the League through the Club. And if you're over 64 or under 18, you yourself save \$5.00. Call Lloyd, WD5HEH at 498-2088 for details as to how to go about it.

MINUTES OF B-VARC CLUB MEETING
February 10, 1983

1. Meeting was called at 7:35 P.M.
2. Lloyd, WB5HEH, Treasurer reported a balance of \$456.02.
3. Ron, KA5GYG, announced that Dick, WB5SRN, will be SPECIAL EVENTS chairman.
4. Dick, WB5SRN, announced the Houston Festival will be held March 18 and 19 and March 28 and 29. Volunteers are needed to assist communications. Call Dick Hawkins, W5DWI, 222-3901.
5. Meeting adjourned at 7:50 P.M.

Hal Fuglaar, N5BXP, Secretary

MINUTES OF BOARD OF DIRECTORS MEETING
February 17, 1983

1. Meeting was called at 7:30 P.M.
2. Steve, WA5OEN, discussed Special Service Club.
3. Hal, N5BXP, discussed updating Club records.
4. Stu, WB5IGG, requested Bulletin spots from the President, Vice President, Secretary, and Treasurer by the third Thursday of each month.
5. Harold, ND5F, discussed five(5) proposals before the F.C.C.
6. Ron, KA5GYG, discussed YL committee. The post of Parliamentarian is vacant.
7. Ed, W5WVX, discussed Missouri City Emergency Communications.
8. Tom, WA5ACF, discussed the donation of a SB100 to the Club for emergency communications and the need for a membership drive.
9. Bary, N5FAB, discussed social activities for the year.
10. Meeting adjourned at 10:35 P.M.

Hal Fuglaar, N5BXP, Secretary

TREASURER'S REPORT
For Period December 31, 1982-February 10, 1983

Beginning Balance	\$ 236.65	
Receipts:		
Annual Banquet proceeds	303.60	
Dues to date	40.00	
Houston Ham Com refund	200.00	
Miscellaneous	11.00	
Ending Balance	<u>\$ 791.25</u>	Lloyd Phelps WD5HEH Treasurer
Disbursements:		
Swinging Door (annual banquet)	283.48	
Stu Lamkin (postage & newsletter)	25.30	
Steve Gottlieb (copy paper)	26.45	
Balance on hand	\$ 456.02	

MARCH MEMBERSHIP MEETING

The program, following a short business session, for the March membership meeting will be put on by Tom Casey, WA5ACF. It will be a video presentation showing how dynamic RAMs (random access memory) and ROMs (read only memory) are manufactured from the time the wafer is built until it is put into the device of which it is a part. The film is being furnished by courtesy of a major manufacturer of RAM's and ROM's, and should be most informative and interesting.

WB5RDK REPEATER UP AND RUNNING AT NEW SITE

While the WB5RDK/RPT has been on the air for about a year now with an antenna elevation of about 85 feet, coverage has now been improved by moving the equipment to a site atop the Memorial Hospital (south-west) with a new antenna elevation of about 200 feet. Club members Mark Schneider (WB5RDK) and Cathy Schneider (KA5BNC) own the repeater. Mark (WB5RDK), Hal (N5BXP), Bary (N5FAB), Doug, (WB5IRI), and Ron (KA5GYG) moved the equipment, installed the antenna, and got the machine on the air at the new location on Saturday, February 12, 1983. The repeater was down for about 10 hours during the move. Operation at the new site is very good but work is already underway on improvements.

WB5RDK/RPT operates on the assigned pair 144.85/145.45 MHz. For owners of Bearcat Scanners the output can be received on 167.05 MHz. This machine has an output power of about 100 watts. Reliable communications are possible using fairly low power mobiles out to a radius of about 25 miles. High power mobiles can push it to about 50 miles on a good day. The 25 mile range covers the entire city of Houston of course. Often these distances are extended by virtue of good "conditions" making longer paths possible.

In March, 1980, an agreement was executed between the Memorial Hospital System and B-VARC, Inc. to provide for the installation of a repeater on the hospital. Unfortunately, due to a number of setbacks, the installation was never made. On February 7, 1983, a new agreement was executed between B-VARC, Inc. and the Hospital superceding the previous agreement which was no longer

workable. An agreement is necessary as the Hospital must conduct "business" with a corporate entity rather than a group of individuals. Accordingly, the repeater is now operating in conjunction with B-VARC, Inc. but not under the control of the club.

Within the near future a new corporation, MEMORIAL EMERGENCY REPEATER ASSOCIATION (MERA), will be formed as a separate entity which will expand repeater operations at the hospital.

A great deal of credit for making the move possible goes to Tom Cole (WB5MXX), Director of the Department of Pastoral Care at Memorial Hospital. Tom hung in there with Bob (W5UBD) for three years trying to make this thing go. The Hospital has appointed Tom as their representative in all matters pertaining to Amateur Radio and has requested that Bob act as coordinator between the Hospital, B-VARC and the new corporation.

Repeater activity in Houston, Ft. Bend, county and surrounding areas has increased markedly. B-VARC, Inc. has already designated WB5RDK/RPT as the official repeater for its nets.

A NOTE FROM THE WB5RDK/RPT TRUSTEE--

The cost of setting up and maintaining the repeater have, thus far, been defrayed among a small group of individuals. While a donation is not a prerequisite to enjoying the machine, you may make a contribution---if you wish, by sending your check to MWS, P.O. BOX 742263, Houston, Texas, 77274. Checks should be made payable to Mark Schneider. If you include a SASE, you'll receive an informational package by return mail.

Mark Schneider, WB5RDK

SOCIAL EVENTS TO GET INVOLVED IN

Dick Hagerman WB5SRN

Here are some fun activities coming up which need the kind of communications help that HAMS excel in providing:

March 19-20 and 27-28-----Houston Festival

If you can devote 1 hour up to all 4 days, call Dick Hawkins, W5DWI, at 222-3901 during day hours.

Buffalo Bayou Water Race--April

To get in on helping keep track of these intrpid paddlers, call Tom Sellers, K5CNU, at 780-3585 during evening hours.

June 3-4-5--Guadalupe River Canoe Race

This one is a real dinger. It last three days and two nights, starts at New Braunfels and ends with the mouth of the river in the Gulf. To participate in keeping track of this bunch for whatever time and distance you'd like, also call Tom Sellers (K5CNU) at 780-3585 during evening hours.

If you volunteer to help with the communications in any of these events, be sure to tell them you are a member of B-VARC, since this kind of activity qualifies toward the Club's designation as a Special Service Club. Also, call Stu Lamkin at 777-3345 and tell him for purposes of publication in the B-VARC BULLETIN.

NCS SCHEDULES FOR MARCH-APRIL

2M. Pub. Serv. ---	3/7 KA5NYI	3/14 N5FAB	3/21 ND5F	3/28 WA5OEN	
	4/4 KA5NYI	4/11 N5FAB	4/18 ND5F	4/25 WA5OEN	
10M Rag Chew --	3/2 KA5GYG	3/9 WB5IGG	3/16 K5EST	3/23 N5HF	3/30 KA5GYG
	4/6 KA5GYG	4/13 WB5IGG	4/20 K5EST	4/23 N5HF	

HATN'S SERVICE TO PUBLIC

I would like to reflect a moment on the importance of the Houston Area Traffic Net and its service to the public in Houston and the surrounding area.

HATN is a very small but important part of the National Traffic System (continued on pg.6)

HATN'S SERVICE TO PUBLIC---CONT.

on a local level. Figures for 1982, supplied by Steve, (KA5KRI), should reflect this importance. There were 1,130 station checkins for 160 sessions, passing 401 formal written messages and the net logged 2,415 minutes time. A pretty sound record for HATN, wouldn't you say.

Public service comes from the messages delivered via landline and the return messages that may be originated for an Addressee, thus publicity for Amateur Radio in a most direct way.

HATN is also a training NET, so you don't need to know a great deal to get started. Why not give it a try? Come check in, learn and serve the Public through your hobby. HATN meets on Monday, Wednesday, and Friday at 6:30 P.M. CST on 147.60/00 (K5KV/R).

See you there and 73's,

Louis KD5GM
Net Manager

NEW MEMBERS

The following have joined us since the publication of the January issue of the BULLETIN.

Pat Armatta KA5PXA	Bob Grady N5DQR
Chris Armatta KA5PWZ	Lewis Morpew KA5QCQ
Carter Bechtol N5DQP	Gary Richardson N5ANF
Ethel Bolyard	Cathy Schneider KA5BNC
Mary Fuglaar KA5LGJ	



They can be recognized by the red border at the bottom side of their name badges. Introduce yourself and make 'em glad they're one of us!

ROSTER

We had hoped to include with this issue of the BULLETIN a copy of the new 1983 Membership Roster, but it has proven to be impracticable for several reasons. We now expect to have in your hands shortly after the March membership meeting. However, enclosed is a list of members who joined prior to March 1.

MADISON ELECTRONICS SUPPLY

1508 McKinney Houston Tx 77010 Fone 658-0268

TO ALL HAMS---

We carry in stock or can order for you any item you want from any major manufacturer of ham gear, including all line accessories and Kenwood service manuals.

Call me, identify yourself and wants, and I'll quote our HOT SPECIAL prices available to you.

73, Don Busick K5AAD

NO-CODE NOTICE OF PROPOSED RULEMAKING RECEIVED- How to file comments - W5YI Report 2/15/83

We finally received a copy of the NPRM on "Establishment of a Class of Amateur Operator License Not Requiring a Demonstration of Proficiency in the International Morse Code"- was released from the Commission on February 1st. Interested persons should file comments with the Commission on or before April 29th and reply comments on or before May 31st, 1983. (Reply comments respond to original filed comments.)

Some of you may have never filed comments with the FCC on proposed rulemaking. Since the no-code issue seems to be a very explosive one within the amateur community, here is your opportunity to let yourself be heard. It's like voting, You forfeit your right to complain about the outcome if you don't cast it. It is my opinion that this is absolutely your last opportunity to express your views on a No-Code Amateur license.

THE HISTORY OF THE AMATEUR NO=CODE OPERATOR LICENSE

The issue of the Codeless Class has been around for over a decade. On December 4, 1974, the Commission adopted their first NPRM on the "Communicator Class" code-free license (Docket #20282). That rulemaking stated:

(Quote)"A survey and analysis conducted in 1971 indicated that there may be as many non-licensees interested in amateur radio activities, if not more, than there are persons already licensed in the Amateur Radio Service. The most often mentioned reason for not obtaining an amateur license is the Telegraphy requirements." At that time the FCC said they believed a codeless amateur class restricted to 144-MHz and up "could and should be incorporated into the Amateur Radio Service." (End Quote)

On August 8, 1978, the FCC looked into providing a special codefree license for handicapped applicants. The Commission adopted a Report and Order on March 6, 1979, addressing the still open 1974 Docket #20282 and the codeless operator license. At that time the FCC stated:

(Quote) We have decided to take no action at this time... on the creation of a.. license having no telegraphy privileges or requirements. We firmly believe in the principle, articulated in the Notice, that in any licensing system there should be a logical relationship between the qualification requirements and the operator privileges authorized at each license class level. We feel that the (codeless) "Communicator Class" as proposed, was in keeping with this principle; and we do not agree with the majority filing comments who asserted that the privileges to be conveyed by the "Communicator Class" were "out of proportion" to the qualification requirements. Nevertheless, since much time has elapsed since the issuance of the Notice (4 years)... we would like to get the views of... newer licensees on the need or desirability of a "codeless" class of amateur license. Accordingly, we hope to revisit this matter later..in a new rule making proceeding." (Unquote).

On March 11, 1982, the Commission adopted a Report and Order terminating, without action, the proceeding in General Docket 78-250 declining to establish a special no-code license for the handicapped. The Commission stated:

(Quote) After careful consideration of the issues and comments in this proceeding, it appears that selecting a particular group of license applicants for favorable treatment in terms of less stringent amateur operator requirements would not be sound licensing policy. For example, if such a policy were instituted, the Commission could find itself ultimately in the untenable position of deciding which applicant actually qualified for telegraphy exemptions and which did not. Therefore, if we decide to introduce a class of amateur radio operator license without telegraphy requirements, it will be available to any applicant, instead

(continued on pg. 8)

THE HISTORY OF THE AMATEUR NO-CODE PERATOR LICENSE--(CONTINUED)

of limited to applicants with certain physical or learning disabilities.(End Quote)

As reported in our last issue, the FCC said that both Canada and Japan had no code licensees and that they were not aware of any difficulties caused by amateurs not having Morse Code proficiency. The tone of the recently issued NPRM clearly was that the FCC was in favor of a no-code license and that they were going ahead with adopting it.

WHAT ARE THE FCC'S EXACT NO-CODE PROPOSALS?

To make it easier for your to file your views with the FCC, here is a capsulized version of what the Commission proposes to do on the No-Code issue.

1. They proposed two alternatives....
 - a. Eliminating the 5 word-per-minute Morse Code Examination from the existing Technician Class operator license. It would still be called the "Technician Class" and would convey all authorized amateur privileges above 50 MHz. Technicians would have Novice class privileges also if they had successfully completed the beginner's (5WPM) code test.
 - b. A class similar to the Canadian Digital Amateur Class Certificate which will be called the "Experimenter Class". There will be no CW (code) requirement, but the written test will be "an Extremely difficult examination on digital techniques. A new examination element (Element 5) is proposed.
2. The Commission said it would "consider only frequencies above 30-MHz for the codeless license class" since it was a signatory to the 1979 WARC conference which requires code proficiency below this level. "The specific frequencies above 30-MHz to authorize for such a license class is an issue upon which we encourage comments."
3. The FCC's specific proposal was for all frequencies above the WARC 30-MHz level for the new "Technician" no-code class and 144-MHz for the "Experimenter" license. "We are also proposing that the privileges include the use of all emission modes currently authorized to amateurs on those frequency bands... We believe that persons whose primary interest lies in the field of computer Communication." The Commission also said that there was nothing to prevent the authorization of "Experimenter" privileges down to the 50-MHz level.

OTHER POINTS YOU MIGHT WANT TO ADDRESS IN YOUR COMMENTS...

Should fully qualified, technically competent individuals be allowed to participate in the amateur radio hobby without Morse Code knowledge? Can they make a contribution to the pastime without code proficiency?

Can amateur radio spectrum support the thousands..even hundreds of thousands or millions of new amateurs that might want to become a ham operator? If not, why not?

Should only specific ham bands be approved-i.e. above 220-MHz, 450-MHz, etc? Is there adequate spectrum on the 2-meter band for an influx of amateurs?

If you object to a no-code license, concisely state why you do and what you feel will happen if one is adopted. Tell the Commission how long you have been an amateur and why your background makes you qualified to make this judgement. Why is the code requirement important even at VHF levels?

What other benefits (or Consequences) will be obtained from a co-code license? International good will, interference, discipline, emergency communications, deregulation considerations, experimentation, effective person commication, whatever.....

(contined on pg.9)

Send your comments to: The Secretary; Federal Communications Commission: Washington, D.C. 20554. Be sure to mark your comments as a response to : PR Docket No. 83-28. Formal comments require filing of an original and five copies. (If you wish each Commission to have a copy, send an original and eleven copies.) Informal copies require only submission of one copy to the above address. Formal and informal comments are given the same consideration. While not absolutely necessary, we suggest that they be typed in the following format....

Before the
FEDERAL COMMUNICATIONS COMMISSION
WASHINGTON, D.C. 20554

In the matter of

Establishment of a Class of
Amateur Operator License Not
Requiring a Demonstration of
Proficiency in the International
Morse Code.

PR Docket No. 83-28

TO: The Commission

COMMENTS OF (LIST YOUR NAME OR CLUB HERE):

Most comments have a short INTRODUCTION (who you or your club are, how many members, etc.) followed by BACKGROUND of the proposal. Your COMMENTS should follow with convincing reasons for them. The ending of your comments should contain a CONCLUSION such as....

"We respectfully ask the Commission to....(give your suggestion on the no-code issue in a very short paragraph.)"

Respectfully submitted,
YOUR (OR YOUR CLUB'S) NAME

Signed: Your signature, call sign..
(Club Office, if appropriate)

Date: _____

USE OF VOLUNTEER AMATEURS PROPOSED FOR HAM OPERATOR TESTING - W5YI Report, 2/1/83

It wasn't accidental that the FCC issued another NPRM on the same day it issued their No-Code proposal. The No-Code class won't fly without someone other than their field offices certifying applicants. The Commission simply can't handle the influx of new amateurs that are certain to pour into the ham ranks. The FCC knows that their chances of obtaining an adequate manpower/financial budget to handle no-code testing is non-existent and furthermore even if they did, they privately acknowledge that they couldn't do a better job than the amateur community.

As anticipated, the Commission has proposed to authorize volunteers to prepare and administer examinations for Amateur Radio Operator licenses above the Novice class. The FCC said the proposal "was designed to offset the limitations in opportunity for amateurs to take the examinations that had resulted from funding and personnel cutbacks." The exams at present are administered by FCC personnel, usually at Field Operations Bureau Offices around the country. In some areas, they are now given only once a year and the number of remote locations has been reduced.

Legislation (Public Law 97-259) signed into law by President Reagan on September 13, 1982,
(continued on pg 10)

USE OF VOLUNTEER AMATEURS PROPOSES FOR HAM OPERATOR TESTING (CONTINUED)

authorized the FCC to use licensed amateurs on a voluntary and unpaid basis to prepare and administer amateur exams. The American Radio Relay League wants to be the national ham examining liason organization. They proposed a plan for use of licensed amateur examiners in a petition to the FCC of October, 1982. Under the Commission's NPRM, individuals and organizations would propose questions for all examinations based on the FCC Study Guide for the Amateur Radio Operator Examinations. The FCC would issue lists of approved questions which would be drawn on for the exams.

Written examinations for the Technician, General and Advanced licenses would be given by three person teams consisting of a team chief holding the Amateur Extra Class license and two members holding either Advanced or Extra Class licenses. While the ARRL suggested the "team Concept", it was the Capital Hill Amateur Radio Society (CHARS) that detailed the need for a Chief Examiner in their formal comments. All three team members for an Amateur Extra exam would hold that class.

Telegraphy exams above the Novice level would be given by an Extra-Class licensee. No amateur holding a significant interest in or employed by a manufacturer or distributor or amateur station equipment or a publisher or distributor of a publication used in preparation for obtaining amateur licenses could be an examiner. An examiner could not be under 18 or related to any of the licensed candidates.

Under the Commission's proposal, one or more national "umbrella" entities would be established to corrdinate the efforts of volunteer examiners. It appeared from the NPRM wording that the FCC agreed that the ARRL was qualified to be a national amateur exam coordinator. The Commission anticipated that such organizations would coordinate and publicize dates, times and places for the examinations. Candidates would be required to present completed applications (Form 610) to the testing team.

The examination team would certify and forward applications of successful candidates to the FCC so that the appropriate amateur licenses could be issued. Exam team chiefs would maintain files of test papers and pertinent information. Interim amateur permits would be issued to successful candidates enabling them to immediately operate their stations for up to 90 days with the privileges and limits of the newer higher license class.

The Commission in October, 1982, proposed to amend its rules so that volunteer licensees of General Class and above who now prepare and administer Morse Code tests to Novice Class license candidates also would prepare the written exams for the Novice license bases on the appropriate syllabus and Study Guide and conduct and grade them. (PR Docket 82-727) That proposal would not be changed by the current action.

Comment dates will be announced on the (Technician and up) Volunteer Amateur Examination Program. It is expected that there will be a 90 day comment period with 30 additional days for replies although this is subject to change, the FCC said.
(Action by FCC Commissioners, 1/20/83, by Notice of Proposed Rulemaking. FCC 83-22.)

THOUGHT FOR THE DAY

If you really care, do your greeting in person or in writing. Although always appreciated by the recipient, a greeting loses something in the telling by a third party. As Ma Bell says:

"REACH OUT AND TOUCH SOMEONE."

B-S-S MART

We'll be happy to list any ham-related gear you might want to buy, or sell, or swap. A pretty high percentage of the items listed herein have found new homes. Just send us your listing by deadline date and it'll be in the upcoming issue of the BULLETIN.

Bill Campbell N5EUL, 465-4278 Nites, 972-1000 days.

FOR SALE:

1. Santec HT-1200 w/115 VAC charger.
Accessories: 12 VDC charger, extra battery, speaker/mike, 5/8 whip, stubby whip. \$225.00
2. Morse-a-word--Morse code reader \$95.00
3. Sears 1800 watt (2200 watt surge) generator set \$285.00
4. Helicoil antenna \$15.00
5. 6 meter Cushcraft 3 el. beam \$15.00
6. Kenwood TR-7600 10 watt 2-meter rig \$175.00
7. Swan 350D HF Transceiver \$175.00
8. Icom-551D, 6-meter transceiver, w/vox, speech compressor & PBT \$400.00
9. B&W 6-meter LPF \$15.00

Wanted and will take in trade:

Two, 2-meter rigs that will tune down to 142.00 MHz (MARS). One must be a 25 watt unit, other can be any wattage.

FOR SALE:

- HW-2036 Heathkit synthesized 2-meter HT FM transceiver
- Heathkit 13.8 V. 3A. power supply
- Heathkit HA-202 10 W. in 40 W. out 2-meter FM amplifier
- Radio Shack 13.8 V. 8 A. power supply
- ARX2B Cushcraft 2-meter vertical fixed station antenna

A total package good buy at \$235.00. Prefer a package sale but will consider individual item offers.

Homer Witmer W5OAX 461-7712

I'm in the market for---- an HF transceiver with power supply, and a microphone to fit. If you have one that need a new home, or know of anyone who does, please call me any time day or evening.
Harold Parker ND5F 464-9044

TEN-METER BEACONS ARE AN AID TO FINDING DX

The Sunspot Cycle is destined for a predicted low in 1988 and good DX contacts on ten-meters will become more difficult to find, but the reception of signals from a DX Beacon Station will quickly tell you if the band is open to that specific area of the world.

The following list of ten-meter beacons was compiled by W6RQ for the DXer, giving the area, station call and frequency:

<u>ASIA</u>	<u>AFRICA</u>	<u>EURPOE</u>
5B4CY - 28,220.0	ZS5VHF - 28,202.5	DLOIGI - 28,205.0
A9XC - 28,242.5	3B8MS - 28,210.0	GB3SX - 28,215.0
VU2BCN - 28,285.0	ZS6PW - 28,270.0	LA5TEN - 28,237.5
VS6HK - 28,290.0	ZS1STB - 28,302.5	EA2HB - 28,247.5
	ZS6DN - 28,315.0	DKOTE - 28,257.5
		DFOAAB - 28,277.5
<u>NORTH AMERICA</u>	<u>OCEANIA</u>	<u>SOUTH AMERICA</u>
WD5HES - 28,207.5	ZL2MHF - 28,230.0	OA4CK - 28,240.0
VE8AA - 28,225.0	VK5WI - 28,260.0	YV5AYV - 28,280.0
VP9BA - 28,235.0	VK2WI - 28,262.5	VP8ADE - 28,285.0

Harold Parker, ND5F

B-VARC BULLETIN
7401 Heilig
Houston TX 77074

FIRST CLASS MAIL

