

Allen Mattis N5AFV
5314 Wigton Drive
Houston, TX 77096
|||||

January 1995

B-VARC Calendar of Events

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1 7:30 PM A.R.E.S. Net 147.30	2 7:30 PM 34-94 Swap Net 146.94 8:00 PM Fort Bend County Emergency Net 145.49 9:00 PM BVARC Net 145.47 & Linked Repeaters	3 8:00 PM 10-10 SHOT Net 28.488 10:00 PM AMSAT 147.10	4 8:00 PM B-VARC Rag Chew 3.960 (Busy? +3 KHz)	5 7:30 PM B-VARC Board Meeting: Sugar Land Community Center	6	7 7:30 AM B-VARC Breakfast 9:00 AM Hou. Emer- gency Management NET 146.84 (9:30 on 3.905)
8 1:30 PM Texas State RACES Net 7.248 7:30 PM A.R.E.S. Net 147.30	9 7:30 PM 34-94 Swap Net 146.94 8:00 PM Fort Bend County Emergency Net 145.49 9:00 PM BVARC Net 145.47 & Linked Repeaters	10 6:00 PM Amateur Exam Session Strake Jesuit College Prep. 8:00 PM 10-10 SHOT Net 28.488 10:00 PM AMSAT 147.10	11 8:00 PM B-VARC Rag Chew 3.960 (Busy? +3 KHz)	12 NO MEETING	13	14 7:30 AM B-VARC Breakfast 9:00 AM Hou. Emer- gency Management NET 146.84 (9:30 on 3.905)
15 6:30 AM Houston / Tennessee Marathon 7:30 PM A.R.E.S. Net 147.30	16 7:30 PM 34-94 Swap Net 146.94 8:00 PM Fort Bend County Emergency Net 145.49 9:00 PM BVARC Net 145.47 & Linked Repeaters	17 8:00 PM 10-10 SHOT Net 28.488 10:00 PM AMSAT 147.10	18 8:00 PM B-VARC Rag Chew 3.960 (Busy? +3 KHz)	19 6:30 PM Annual B- VARC Awards Banquet Houston Engineering & Scientific Society Building 3121 Buffalo Speedway	20	21 7:30 AM B-VARC Breakfast 9:00 AM Hou. Emer- gency Management NET 146.84 (9:30 on 3.905)
22 1:30 PM Texas State RACES Net 7.248 7:30 PM A.R.E.S. Net 147.30	23 7:30 PM 34-94 Swap Net 146.94 8:00 PM Fort Bend County Emergency Net 145.49 9:00 PM BVARC Net 145.47 & Linked Repeaters	24 8:00 PM 10-10 SHOT Net 28.488 10:00 PM AMSAT 147.10	25 8:00 PM B-VARC Rag Chew 3.960 (Busy? +3 KHz)	26	27	28 7:30 AM B-VARC Breakfast 9:00 AM Hou. Emer- gency Management NET 146.84 (9:30 on 3.905)
29 7:30 PM A.R.E.S. Net 147.30	30 7:30 PM 34-94 Swap Net 146.94 8:00 PM Fort Bend County Emergency Net 145.49 9:00 PM BVARC Net 145.47 & Linked Repeaters	31 8:00 PM 10-10 SHOT Net 28.488 10:00 PM AMSAT 147.10				

S	M	T	W	T	F	S
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

S	M	T	W	T	F	S
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

Please report any changes or corrections.

Kelley Hughes, NSULZ, 499-9806

Notes From the President

by Doug Holley, KE5SR

The year 1994 has moved by so quickly and now it is time for a new 1995 slate. I would like to think 1994 flew by so rapidly because we were so incredibly busy with all our many activities. There was not a spare weekend for BVARC in 1994. Board meetings, general meetings, picnic, campouts, field days, etc. kept us busy, and add to all that the breakfasts and monthly Friday dinners and public service events, there was not much time left for other things.

I, as your 1994 President, have had the best year of my life. Meeting so many new people and being involved with the many activities are some of my best memories. Major events I recall were helping put up the 120' tower for the Stephen F. Austin Radio Club, helping Bill Clark take down and reinstall his antennas, and working with the field day group.

The only one negative point I can think of was getting the threatening letter from Grundy Wiley, our Texas Tax Comptroller, indicating we were attempting to evade sales tax through our monthly sidewalk sale and even through HamCom 1993. Losing BVARC sponsorship of the sidewalk sale, which was one of our main events, cost us membership as we have always signed people up to join our club at these gatherings.

We taught two no-code theory classes and taught two code classes. The achievements from these groups surprised me as we turned out both new hams and a host of upgrades. When events like this happen, it makes you happy to be a ham and to have had a part in it.

Work is continuing for the 1995-1996 Gulf Coast Amateur Radio Convention. We met November 13, 1994 for our second meeting. Eleven core members were elected. Our prime sites, the Astrohall and George R. Brown Convention Center were already booked the first two weeks of October, so either another site or another weekend is in our future. Plans are at present for the core group to locate another site or date. A representative from many clubs will be called on to help with a particular aspect of the organization.

BVARC RAG CHEW CHECK-INS
3.960 MHz 8:00pm Wednesdays
Compiled by Mel Thatcher, KB5ION

November 2, 1994

KB5ION (Net Control), KG5KV, W5GLD, KE5SR, WN5A, N5UOG, K5LTW, N5ECP, KB5LFU, N5CPA, N5OAC, WWO, WD5CJL, K15SC, KB5PAJ, AB5OK, N5AFV, N5YKR, W5GHK, KB5TBZ, N5KXU, KF5NU

November 9, 1994

KE5SR (Net Control), KB5ION, WD5CJL, WN5A, N5CPA, W5GHK, K0NM, N5UOG, KB5TBZ, KJ5SF, W5GLD, W5IHY, WA5SCE, KD5GM, KF5NU, KG5KV

November 16, 1994

KE5SR (Net Control), WD5CJL, WN5A, N5CPA, KB5ION, W5GHK, K0NM, N5UOG, KB5TBZ, W5GLD, KJ5SS, W5IHY, WA5SCE, KD5GM, KF5NU, KG5KV

November 23, 1994

N5CPA, N5UOG, W5IHY, WB8SVR, AB5OK, KJ5SS, KD5GM

November 30, 1994

KB5ION (Net Control), KE5SR, N5UOG, K15SC, KB5PAJ, W5GLD, N5CPA, W5DIG, W5IHY, N5RTN/Mobile, N5OAC, N5AFV, KF5NU, WA5TWL, WD5CJL, W5GHK, KD5GM, N5KXU

Our club banquet will be held January 19, 1995 at the same site as it was in 1994, the Houston Engineering and Scientific Society building at 3121 Buffalo Speedway. Arrival time is 6:30 p.m., and dinner will be served at 7:30 p.m.. The price is \$17 per person plus bar. We have three meals to choose from: Chicken Oscar, 10 oz. Ribeye steak, or West Coast Snapper. The club is picking up a portion of the cost. You must let Sam Wilson (N5CPA) know if you are coming and what your dinner choice is by January 12. This is our only coat and tie function, and I look forward to seeing you there.

In closing, I cannot attempt to name all members responsible for the success of BVARC in 1994 in this newsletter. My sincere thanks to all members and non-members in this team effort who contributed to a great year filled with many accomplishments. Greatness is not achieved through numbers, but through effort.

73 de KE5SR, Doug Holley

Board of Directors Meeting

by Bud King, N5UOG

A quorum of the B-VarC Board of Directors met at the Sugar Land Community Center on December 1, 1994. This was the twelfth meeting of the Board for the 1994 calendar year.

The following Board members, members-elect, and guests were in attendance: Doug Holley, KE5SR; Melvin Thatcher, KB5ION; Sam Wilson, N5CPA; Claude Sessions, K5HFY; Victor Richard, N5NAS; Bill Dessens, N5KXU; Bud King, N5UOG; Ron Grimes, WA5SCE; Louis House 111, KD5GM; Donn Washburn, N5XWB; Billy R. Jones, KC5EVD; Allen Mattis, N5AFV; Frank Wood, W5GLD; Mike Hardwick, N5VCX; and Angel Abbott-Jones, KC5KRV.

Bud King, N5UOG, submitted the minutes of the November Board meeting, and they were approved unanimously.

Sam Wilson, N5CPA, the Club Treasurer, reported a balance of \$2,778.52 in the treasury as of November 30, 1994. The Treasurer's report was approved unanimously. Sam stated the membership had reached 251.

Mike Hardwick, N5VCX, in his report to the Board concerning Public Service Events stated there was one event remaining in December. The 30K Marathon Warm-Up will be chaired by Don Wade, WB5IBT, and held on December 10th. Mike mentioned the Houston Tenneco Marathon would be held on January 15, 1995, along with the 5K Marathon Warm-Up Race. Doug Holley congratulated Mike on the excellent manner in which he had chaired the Public Service Event Committee in 1994.

Vice President Mel Thatcher, KB5ION, stated it was pleasing to see the rapport that had been established between B-VarC and the other amateur radio clubs, especially the Bellville A.R.C. Mel's comments included the well being of the Rag Chew Net, and the possibility that the new Net Control may want to investigate a change of time for the net. Discussion of the subject resulted in no action being taken. Doug thanked Mel for his many years of service as Net Control of the Rag Chew Net.

Vic Richard, N5NAS, congratulated Doug on his outstanding performance as President of B-VarC. The Board echoed Vic's statement.

Angel Abbott-Jones, KC5KRV, was requested to research a source and availability of B-VarC Logo Patches, Caps,

Shirts and any other articles that would identify a B-VarC member.

Louis House, KD5GM, has volunteered to chair and conduct the 1955 B-VarC Code Classes for 1995. Doug Holley will assist Louis.

A brief discussion clarified the method of nominating and selecting the recipients for the awards which are presented at the B-VarC Annual Banquet.

In attendance were seven (7) members of the 1995 B-VarC board of Directors. At the direction of those members, Bud King, N5UOG, was instructed to apply for reservations for meeting rooms for the 1996 B-VarC functions and to report the results at the first Board meeting in 1995.

President Holley adjourned the meeting at 8:45 PM.

B-VarC Bulletin Update

by Kelley Hughes, N5ULZ

You may notice that this issue of the Bulletin is only eight pages long, compared to the usual ten. This is primarily due to the lack of articles submitted for publication this month. I guess the Holidays have everybody a little busier than usual. I know I am! This is "crunch" time at work for my business, and I end up making lots of short out-of-town trips on short notice. One such trip is the reason the Bulletin is a little later than usual.

I had high hopes for the questionnaire in last month's bulletin. I have over the course of the past year had lots of comments regarding how people thought we could improve the bulletin. I figured by putting in a questionnaire, everybody could submit their ideas and a tally of preferences could be made. Well...I had a grand total of three completed questionnaires sent back in. I guess I can presume from this that everybody likes the bulletin the way it is. (or else nobody cares!). My thanks to the three of you who took the time to give your input.

Anyway, please send in an article or two. You are the ones that provide the information for this newsletter. I am looking forward to a great 1995, and hope you are too!

73 es CUL de Kelley, N5ULZ

The World of Ten Ten

International

by Al Mattis N5AFV

Results of the 1994 Ten Ten International election of officers have been announced. Tom Henderson, K4CIH, is the new president. Other new officers are vice president Chuck Insande, W6YLJ, and directors Linda Barnes, KJ4FM, Ed Redwine, K5ERJ, Bob Ryan, K6YVG, Bill Howe, VK4WBH, and Pete Matson, KC1CP. Dave Prichard, KA5OVO, of Houston, TX, was elected secretary.

A winter Ten Ten International DX net has been formed. The net meets on 28.555 MHz at 1400 to 1530 UTC on Sundays. The net control station is Mike Davidson, KC5CP, in Houston, TX. A backup net control station from the U.S. East coast will help conduct the net. The net is scheduled to run from November, 1994, through February, 1995.

The Houston SHOT chapter is pleased to welcome Pete Norris, KJ5SS, as its newest local member. Since the chapter was founded in 1976, over 350 amateur radio operators in the Houston metropolitan area have become local members of the chapter. Approximately 1,225 amateurs outside of the Houston metropolitan area have also joined the chapter.

Propagation has improved, and Ten Ten paper chasers continue to be active on 28.345 mhz. Chapters with specials for paper chasers this month include Quahog (RI), Choo Choo Belles (GA), Eagle Watch (AL), City of Melbourne (VK) and Steel City (IL). Word has been received that the certificate manager for the Texas Gamblers (TX) chapter has unexpectedly moved, and the chapter head is attempting to reorganize the chapter.

Propagation on the ten meter band has improved significantly this past month. Band openings occur almost everyday, with domestic propagation to both the East and West coasts being common. Propagation

to Hawaii, the South Pacific, and South Africa has been reported. Scattered reports have also been received of European DX being heard on ten meters. Even with this type of winter propagation, openings to KS, MO, IN and MN, typical of summer E-layer propagation, continue to occur. It is this mix of propagation that makes ten meters such an interesting band.

Remember, the Houston S.H.O.T. (Space Houston On Ten) net meets every Tuesday evening at 8 pm local time on 28.488 mhz. All amateurs are welcome to check in, even if they do not have a Ten Ten number. If you are not a member of Ten Ten International and wish to join the organization, please check into the net. There are a lot of exciting activities in Ten Ten, and many friendly people can be found on the ten meter band.

INDUSTRIAL • AMATEUR • SURPLUS

DONALD P. BUECK
MADISON ELECTRONICS SUPPLY, INC.

12216 ZAVALLA ST.
HOUSTON, TEXAS 77060
PHONE 713-750-7000
1-800-881-8887 (A.S.)

NSAS
WJLW

STATE FARM
STATE FARM
INSURANCE

OR: (713) 498-4988
UN: (713) 498-4988
Res: (713) 879-8611
Fax: 498-2292

STATE FARM
INSURANCE COMPANIES
HOME OFFICE: BLOOMINGTON, ILLINOIS

BOB KUNESH, ChFC
Agent

12135-B Bloomer
Houston, TX 77060

KJ5BG
x-WA5NEM

PAIGE COMPUTERS, INC.

Largest EPSON® Service Center in Texas
We Sell & Service Epson, NEC & Toshiba Products
as well as your favorite software - Discount for BVARC

Bruce A. Paige
KB6ZRV

7625 Boerne Rd.
Houston, Texas 77072
1 Mile W. of I-10 exit

713-833-8285
Ext. 201
FAX - 713-833-3544

Results of the December 13th

Amateur Exams

by Harold Parker, ND5F

B-VARC again sponsored and administered the ARRL's Amateur Radio Examinations that were held on Tuesday evening, December 13, 1994, at Strake Jesuit College Preparatory in Houston.

V.E. TEAM:

Carl Albrecht, AA5JW
Craig Culver, AB5OK
Harold Parker, ND5F

Assistants:

Cass Germany, KG5IT
Irene Gordon, N5AYX
Steve Spaniol, KK5GA

A total of 34 exams were administered during the evening to 21 applicants. Nine (9) unlicensed candidates received their "Codeless" Technician licenses. Four (4) others upgraded with a total of 25 elements passed. The overall "pass rate" for the evening was 74%.

Congratulations to the following who upgraded and/or passes exams.

Richard Allen, W5SXD - Element 4B
Neil Baldwin - Technician
Ari Banerjee - Technician
David Bankhead - Technician
Wilbert Cannonier - Advanced
Edwin Dobson - Technician
Jack Edwards - Element 2
Minh Ha, KC5KGC - Technician Plus
Anthony Hough, N5QAF - Technician Plus
Todd Johnson - Technician
Willis King - Technician
Larry Lawson, KC5HOQ - Element 3B
Terry McCoy - Technician
Richard Pitsch - Technician
Irv Smith, KB5EXM - Element 4A
William Stewart - Technician
Jery Thomas, KC5IWO - Element 4B
Tana Vecchio, KC5HNK - General

Many thanks to all the Team Members and Assistants who volunteer their valuable time and effort each month.

All of us at B-VARC again thank Vincent, WA5ETS, and everyone at Strake Jesuit College Preparatory for making these excellent classroom facilities available to us for our exams each month.

1 Sign - - -

Randy Pollard, AK5G

Certified Public Accountant

(713) 667-6113

*Monthly Accounting,
New Business Accounting Start up,
Individual & Corporate Taxes,
Audits, Consulting*

Adolph

Alex - WA8URT

**CITY
ELECTRONICS
SUPPLY**

Store Hours: Mon.-Fri. 9:00 - 5:00

7045 Alwood

Houston, Texas 77061 663-6066

**HOUSTON
AMATEUR RADIO
SUPPLY, INC.**

**George DiLotto, KD0RW
PRESIDENT**

181 CYPRESSWOOD DRIVE
SPRING, TX 77388

800-471-7373
713-355-7373
FAX 713-355-8007

Don't Forget To Renew Your Membership!!

Attached to the last page of this month's bulletin you will find a B-VARC application. Please renew your membership for 1995 now by filling out the application and returning it with your dues to Sam Wilson, N5CPA (723-9952). Your early renewal benefits the club!

Traffic Handling

by Louis House, KD5GM

In the August issue of the B-VARC newsletter I wrote an article which promoted a Traffic Handlers Training Course. This course is still offered on two slow speed CW nets.

These nets are a part of the National Traffic System of the ARRL. Both nets have liaison with other local and section nets, the fifth region net and the central area net.

The net names are: Oklahoma Training Net (OTN) and Texas Oklahoma Slow Net (TSN). The OTN meets at 6:30 p.m. Central time on 3693 KHz. The net manager is Pat Garvin/WB5NKD, her husband Arley/WB5NKC is the net control station and instructor along with others who participate as volunteer instructors.

The TSN meets at 8:00 p.m. Central time on 3719 KHz and the net manager is Cecil Carter/KI5LQ. All are excellent operators and are dedicated to the upward training of all who are interested.

All stations are welcomed to check in even if the training course is not desired. For those who complete the training course a certificate will be issued to acknowledge your accomplishment.

Listen in a few times if you wish, then QNI with your call sign. If you desire the training course then send "/trng" after your call sign and have a lot of fun.

This next item pertains to morse code classes which will start on the first week of February. The exact location date and times will be announced on our Monday night net and will appear in the January issue of the B-VARC news letter. The class will start out for beginners and will progress all the way to 13 wpm+. No-code techs can learn the code for 5 and 13 wpm. It's going to be fun, don't miss it.

Now I wish to thank all of our 1994 officers for the excellent jobs they have done this year and a very special thanks to Doug Holley/KE5SR who has inspired me to be more active than I have been in years past. A wonderful and safe holiday season to you all.

73's Louis House/KD5GM, ORS/ South Texas Section



Lou Kronberg
Chairman of the Board
WSIH Y

7106 Mapleridge • Houston, Texas 77081 • (713) 666-2371

K-ARTS Classical 25K Race Communications

by Al Mattis N5AFV

A total of 25 amateur radio operators provided communications for the K-ARTS Classical 25K on November 13, 1994. A number of these operators were working their first public service event. It was a mild morning with temperatures in the low 60's. Because of the 7 AM race start, volunteers had to arrive and find their places in the dark. Sunrise was at 6:45 AM.

The race, which had a course along Memorial Drive, went very well. A total of 2140 runners registered for the event, an increase of approximately 200 over last year's 25K race. There were no major medical emergencies this year, and no runners were transported to the hospital. Due to a last minute change in plans, there was no lead car, and an HPD motorcycle officer lead the race. The driver for the sag wagon did not show up, and the supply truck was also used as a sag wagon. Thank you to both N5KXU and KB5FDA, who were on location and prepared to provide communications for the lead vehicle and sag wagon. The most serious problem handled by amateur radio communications was arranging for additional cups to be brought to water stations that needed them. Because of the early start, the communications volunteers were finished at 10:30 AM. With the pleasant weather conditions, everyone appeared to have an enjoyable time.

A special thank you is extended to M.E.R.A. for use of the 145.47 MHz repeater for talk-in. On behalf of the race officials, thank you also to everyone who helped provide race communications.

UPDATE ON POSSIBLE LOW FREQUENCY AMATEUR BAND

by Allen Mattis N5AFV

The efforts continue to obtain ARRL support for a low frequency amateur radio band from 160 to 190 kHz (1750 meters) in the United States. Papua New Guinea, Great Britain and New Zealand have all announced plans for the implementation of a low frequency amateur radio band, and it is hoped that the United States will not be far behind. The November, 1994, issue of the Lowdown, published by the Longwave Club of America, summarizes the current status of this activity.

Bob Magraw, K0CBA, of St. Louis, MO, has been one of the leaders in the movement to obtain support for a low frequency amateur radio band. In a recent letter to the ARRL, Magraw stated that "the voices of all the hams in the U.S. could not be heard above the sound of shuffling paper and coffee being poured at the FCC without the League." Magraw received a reply from ARRL Executive Vice President David Sumner, K1ZZ, which expressed reservations about such an amateur radio band. Sumner stated that the League is concerned about possible interference to power line carrier (PLC) systems.

PLC systems are low frequency carrier current systems used by electrical utility companies to provide communications important to the reliability and security of electric service to the public. PLC's are a closed circuit, non-radiating system, similar to cable television in that they use the power lines to carry a signal. These systems operate on frequencies below 490 kHz, and are subject to Part 15 of the FCC rules.

Magraw believes that if interference to PLC's is a serious problem for low frequency transmitters, the existing Ground Wave Emergency Network (GWEN) system with its high power transmissions between 150 and 175 kHz would already be causing interference. No reports of interference have been received by the FCC. Furthermore, the FCC Table of Allocations (US294) states that PLC's operate "on an unprotected and noninterference basis with respect to authorized radio users."

In addition to his efforts to secure ARRL support, Magraw has also been contacting equipment manufacturers such as TEN-TEC and MFJ. The existing pool of LowFERs, as well as U.S. and foreign amateur radio operators, are all potential customers for LF equipment that could be used under either Part 15 or amateur radio rules. With little equipment currently available for the LF band, this could be a good opportunity for a manufacturer to position themselves in order to dominate a future market.

Watch for future updates about the ongoing efforts to secure a new low frequency amateur radio band in the United States.

Belton
Better Hearing Through Professional Care

LAWRENCE COX, BC, NBC-HIS
CERTIFIED AUDIOPROSTHOLOGIST N3042

BELTONE HEARING AID CENTER

2416 AVENUE H
ROCKWELL, TEXAS 77471
713/342-1305

5785 FORDHAM
HOUSTON, TEXAS 77056
713/977-8781

Congratulations New Officers

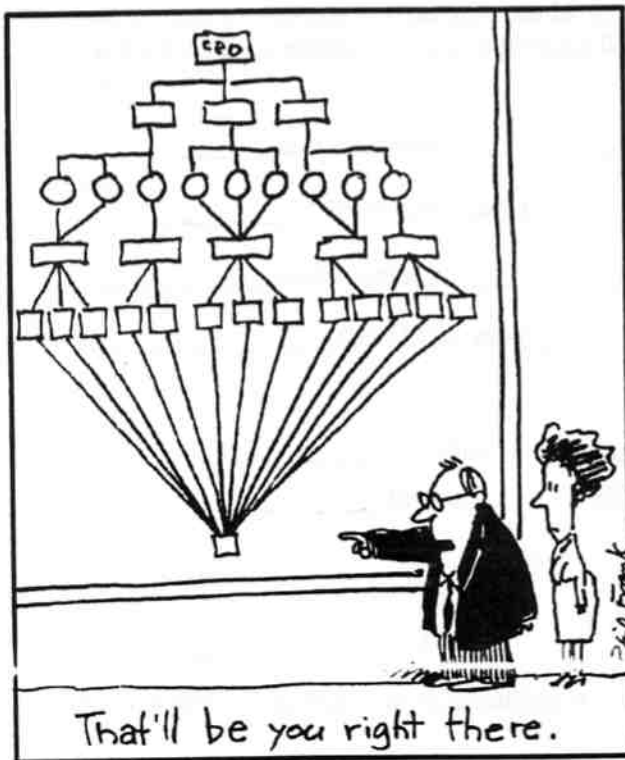
by Doug Holley, KE5SR

At our November monthly general membership meeting, the membership elected the following officers and board members for 1995:

President	Carl Cunert, WB8SVR
Vice-President	Ron Grimes, WA5SCE
Recording Secretary	Louis House, KD5GM
Corresponding Secretary	Billy Jones, KC5EVD
Treasurer	Donn Washburn, N5XWB
3-Year Board Member	Bud King, N5UOG
2-Year Board Member	Claude Sessions, K5HFY
1-Year Board Member	Vic Richard, N5NAS
Past President	Doug Holley, KE5SR

Congratulations are in order to all of the new 1995 B-VARC Officers and Board Members! Please give these officers, and the club, your support and assistance in 1995.

Stray RF



Brazos Valley Amateur Radio Club

Membership Application

Bring to a Club meeting, or mail with check to:

B-VARC

P. O. Box 1630

Missouri City, TX 77459

Check if this application is for: New Membership _____ Renewal _____ Roster Update Only _____

Name _____ Callsign _____ License Class _____

Address _____ Home Phone _____

City, St, Zip _____ Work Phone _____

Are you a member of the ARRL? _____ Each year we report the percentage of our membership who are members of the ARRL on our annual club status report. If you would like to join (or renew) the ARRL, the club will benefit if you do so through our treasurer. Check here _____ if you wish to do so, and include the current ARRL dues in your remittance.

Regular membership dues are \$16.00/year. After the March membership meeting, dues are prorated quarterly. Additional family members may join B-VARC for only \$2.00/year each. They do not receive an additional copy of the monthly newsletter. If you wish to enroll additional family members, please fill out their information below:

Name _____ Callsign _____ License Class _____

Home Phone _____ Work Phone _____ ARRL MEMBER? _____

Name _____ Callsign _____ License Class _____

Home Phone _____ Work Phone _____ ARRL MEMBER? _____

Remittance Calculation:

Regular Membership _____ + Family Memberships _____ = Amount _____

ARRL Memberships (\$30.00/year) Qty _____ Amount _____

Worldradio Subscription (\$14.00/year) Qty _____ Amount _____

TOTAL _____

I agree to observe the By-Laws of the Club and the rules and regulations of the Federal Communication Commission.

Signature _____ Date _____