

# B-VARC BULLETIN

The Monthly Publication of the  
**BRAZOS VALLEY AMATEUR RADIO CLUB**  
Serving Fort Bend and Harris Counties

Editor-in-Chief: Irv Smith, KB5EXM

## About the Brazos Valley Amateur Radio Club...

Organized in 1977, the club has been growing steadily. It is a gathering place for HAM radio operators in Southwest Harris and Ft. Bend Counties and surrounding communities. It is a general purpose type of HAM club offering a variety of activities open to all interested persons. Membership is open, not only to licensed HAM operators, but also to anyone interested in the hobby. In addition to regularly scheduled membership meetings, the club conducts classes leading to amateur radio licenses each year and sponsors a volunteer examiner team which offers examinations in all levels of HAM licenses each month.

For more detailed information about the club and any of its activities, please call Stu Lamkin, WB5IGG, at (713)777-3345.

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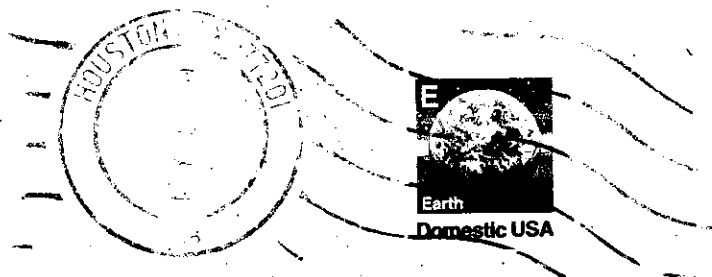
May 1988

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## ADDRESS CORRECTION REQUESTED

From:

Brazos Valley Amateur Radio Club, Inc.  
P.O. Box 1630  
Missouri City, TX 77459  
Telephone (713)777-3345



## Meeting Schedule

Thursday, May 5	B-VARC Board Meeting
8:00 pm	Missouri City Fire Station
Thursday, May 12	B-VARC General Meeting
7:30 pm	Missouri City Fire Station
	(6:30 @ Vaso's; socialize at 7 at ED)
	Program: R/C Model Airplanes
Thursday, May 26	B-VARC West-side Meeting
7:30 pm	Bear Creek Civic Center

Stu Lamkin, WB5IGG  
7401 Heilig  
Houston, Tx 77074

## WESTSIDE NOTES

by: Bill Kemp, KG5CB

First a call for HELP! The 442.5 R.A.C.E. Repeater group is currently having a fund drive to beef up the account to cover expenses such as the phone bill, insurance and maintenance on the machine. As lots of the users of the 442.5 machine are B-VARC members, I hope you can help out with our fund drive and donate a contribution.

Please send whatever you can to:

R.A.C.E. Repeater Group  
c/o Ken McAninch, KA5KDS  
3730 Devon  
Houston, TX 77027

We sure do appreciate the donations that some of you gave at the December dinner and we hope that you can help out again!

I hope everyone is looking forward to Field Day at NSKRU'S place at Oak Hill. Looks like it is really going to be a lot of fun this year.

We hope to see you May 26th at 7:30 p.m. at the Bear Creek Park Community Center for your monthly Westside Social.

## REPORT: WESTSIDE MEETING

by: Cindy Hammer, N5LXE

Sixteen people attended the Bear Creek Social. The topic was RC model airplanes. Thanks to Joe Ross, AA5BD, for a very interesting and informative program.

Harold Parker, NDSF, described the annual opportunity to communicate cross-band with MARS stations on Armed Forces Day, May 22nd. Details can be found in the May *QST Magazine*. A chart of frequencies for the various QTH's and modes is included elsewhere in this Newsletter. Note that the RTTY warmup is at 10:35 p.m. with the test at 10:45 p.m.

"Need a 'K9'?" Kingman Island DX could be found the week of 4/25. Frank, K5CM, told us about this 10' X 30' island off Hawaii which was visited by an American DXpedition and was easily reached on all modes. Hope you caught 'em!

## NEWSLETTER NOTES

by: Irv Smith, KB5EXM

The Newsletter takes a big bite out of B-VARC's annual income. Stamps alone are 25 cents. Bulk mail rates would save us 8 to 16 cents, but they require a minimum of 200 mailings. Now we mail out only about 100 copies.

Selling advertising is a possibility to help defray costs. Another possibility is not to mail the Newsletter - just give it out at the meetings. But this will miss those who can't get to that month's meeting. One member suggested having each recipient give us SASE's

Also, the By-Laws require that we send a meeting notice to all members 7 days before the general meeting. The Newsletter does this, although we could do it by post card.

Your Board-of-Directors wants to keep the Newsletter as monthly mailed-out item, so any suggestions on how to cut costs will be appreciated. Obviously one of the main areas is in the reproduction.

Reproduction at commercial shops costs from 3 to 5 cents a side; we normally have four double-sided pages. This month's issue was run on a copying machine owned and offered to us by Greg Lefebvre, N5LTV. B-VARC furnished the paper (wholesale cost: \$20/ 5000 sheets).

Roland Torres, KB5EQH, helped Greg and your Editor run the copies, assemble the pages, and glue on the stamps and mailing labels (furnished by Jack, W5A). I appreciate Roland's and Greg's help, and we always can use more volunteers for the monthly Newsletter party.

Please send all Newsletter items to me at the B-VARC post office box. Or, get them to me in any form including ASCII format on a disk.

# THE PRESIDENTIAL REPORT

by: Dave Dyer, KA5UXP/AE

## Thanks and Congratulations:

Congratulations to Herb Nance (N5GZW), appointed to the B-VARC board of directors as our new corresponding secretary.

Congratulations to Irv Smith (KB5EXM), appointed to the B-VARC board of directors to serve as the one-year board member-at-large.

Congratulations to Rick Meyer (KA5YSL), appointed to the B-VARC board of directors as our new recording secretary. Rick will be providing the newsletter with a monthly recap of the general membership meeting.

Thank-you Vice-President Suzanne King (KB5BAY), for starting a monthly vice-president's column that will keep us up on activities of the B-VARC board of directors.

Congratulations to Ray Dillard (WA5F). Ray coordinated communications for this year's very successful MS-150 bicycle tour. Super job, Ray.

Thank-you to the two Lee's (KB5EST and KB5WJB), David Lance (KB5EYK) and Karla Dyer (N5LGS) for your invaluable help in putting on the B-VARC novice/technician class.

Thank-you Mike Eason (N5KRU) and Cathy Eason (N5LKU) for allowing us to use your farm for field day this year. And, congratulations on your new home. And a special thank-you to Mike for the outstanding programs you have arranged for our general membership meetings.

## Field Day

The Field Day Committee is headed up by Randy Pollard (AK5G), Herb Nance (N5GZW) and Mike Eason (N5KRU). Field Day will be the last full week-end in June. This year, field day will coincide with a B-VARC picnic. Start making plans now.

## Change in tax-status

Soon, B-VARC will begin a major undertaking: Changing our tax-status. This involves a fair amount of work, including some changes in the charter and by-laws. However, the new status will allow those who donate money and equipment to claim those deductions on their income tax. In addition, it will help us in our efforts to secure support from government agencies and philanthropic organizations. Randy Pollard (AK5G) has had some experience at getting the desired tax status and has volunteered to help us in our efforts. Thanks, Randy.

## VEC Exams

Just to remind everyone, B-VARC is now sponsoring two VEC exam sessions per month. The second-Tuesday exams are held at Strake, and the fourth Saturday exams are held at Frosty's. For details on the VEC exams, or to register for one, contact Stu Lamkin (WB5IGG) at 777-3345.

## B-VARC Public Service Net

Good things just keep getting better. The number of check-ins to our public service net just keeps climbing. This month marks a different kind of record. Dave Lance (KB5EYK), at 12 years old, became the youngest net control operator ever for this public service net.

## VHF/UHF Band Openings

We have had several good band openings on both UHF and VHF this month. One morning, we had a great QSO with Laura Yates (KB5SGM), a B-VARC member residing in Fort Worth. Laura was assuring us that both she and Steve (KA5DUU) would be at our field day.

(Continued on next page)

## THE PRESIDENTIAL REPORT (cont'd)

### President admits defeat

My wife Karla (NSLGS) and I decided to ride to Austin on the MS-150 bike tour. We prepared carefully, trained steadily, and stuck to our plan. Unfortunately, all the preparation, planning, and strategy did not guarantee success.

By lunch on the first day, it was over. We loaded our bikes on the van, rubbed in some liniment, and consoled ourselves as we spent the rest of the tour picking up other saggars.

It was a tough tour. We covered 50 of the 150 miles, and enjoyed every minute we spent riding and helping. But next year.....

73's, Dave Dyer - KASUXP

## NOTES FROM THE V.P.

by: Suzanne King, KB5BAY

The April board meeting was very interesting. Robert Ricketts (NSJKD) and Clint Gilliard (NSFNA), two of our original board members, have taken jobs out of state. That left us with a few empty slots on the board. Rob's shoes were so hard to fill as secretary, we decided to split the job in two sections. Herb Nance (NSGZW) will be our new corresponding secretary, and Rick Meyer (KASYSL) will be our new recording secretary. Irv Smith (KB5EXM) is our third new board member. Irv is taking the last year of Clint's term as a director. (Talk about hard shoes to fill!) We are all going to miss Rob and Clint; they have added so much to the club. However, we are confident that Rick, Herb, and Irv will do a fantastic job as board members.

We also discussed Field Day at the board meeting. The Field Day committee will be presenting the board with a list of items needed to make the function a success sometime in the very near future. So, if any of you would like to help out on the committee, or just have an idea, talk to Randy Pollard (AK5G) or Herb Nance (NSGZW).

Along those lines, we discussed our semi-annual picnic. Unfortunately, we will not be able to have our usual spring picnic out at the Holley's, due to the fact that Doug (KE5SR) has to be working in Louisiana. This got the board to thinking that combining Field Day and the picnic could be great fun. The exact day and time has not been pinned down as of yet, but I'm open to suggestions. The cost will be the same as last fall, \$3.00 for adults, and \$1.50 for children. I, Suzanne (KB5BAY), will be heading this function, and I would appreciate all the help I can get. Just call me at home at 270-4188.

The board also touched on the subject of the newsletter. Irv (KB5EXM) has found a place that will copy the newsletter at \$0.03 a side, which is great. The only problem is that if we pay for copies of the newsletter every month the club will run out of money. Fortunately a few of our members have donated their time and effort. Gerry Borg (NSAPW) has offered to run copies at work, if his supervisor agrees. Greg Lefebvre (K5LTW) has also donated use of his copy machine. If anyone else can donate time towards the newsletter it would be greatly appreciated.

That was the April board meeting. Board members attending were:

David Dyer (KASUXP), President  
Suzanne King (KB5BAY), Vice-President  
Kari Albrecht (KA5QLQ), 3rd year director  
Jack Van Demark (WN5A), 2nd year director  
George Jolly (NDSE), Past President.

Also attending were general members Herb Nance (NSGZW), Gerry Borg (NSAPW), Rick Meyer (KASYSL) and Karla Dyer (NSLGS).

All of this sounds exciting, huh?! Actually it is a lot of fun, and the best part is... anyone can come! The board meets the first Thursday of every month at 8:00 p.m. at the Mo. City fire station. The next meeting will be May 5, 1988. I hope to see as many of you out there as can make it.

## RESULTS OF THE APRIL EXAM

By: Harold Parker, ND5F

B-VARC again sponsored the ARRL's Amateur Radio Examinations that were held on Tuesday evening, April 12, 1988 at Strake Jesuit in Houston.

The V.E. Team and Assistants:

Joe Ross, AA5BD  
Henry Morrison, W5RIY  
Stu Lamkin, WB5IGG  
Harold Parker, ND5F

A total of twenty-one (21) exams were administered during the evening to ten (10) applicants. Of those, four (4) upgraded their license with a total of nine (9) elements passed. The overall "pass rate" for the evening was forty-three (43) percent.

Congratulations to all the following who upgraded and passed exams:

Brian Melancon, N5LDS . . . Advanced  
Stephen Morris, KA3PNJ . . . Advanced  
Roselin Osias . . . . . Element 2  
Bill Todd-Brown, KB5ESL . Technician  
Robert Torres, KB5E2Q . . Technician  
Carolyn Wilson, KB5FP0 . Element 1B  
Herschel Wilson, KB5FPN . Element 3B

Many thanks to our V.E. Team Members and Assistants for all their time and effort. We especially want to thank Vincent, W4SETS, and everyone at Strake Jesuit for allowing us to use the classroom each month for our exams.

## COMING EVENTS

June 2 B-VARC Board Meeting  
June 9 B-VARC General Meeting  
June 23 West-Side Social  
(Confirm summer schedule  
with Bill Kemp, KG5CB)

## VOLUNTEER EXAM SESSIONS IN MAY & JUNE

By: Stu Lamkin, WB5IGG

Following are Radio Amateur license exam sessions scheduled to be held in this area in May and June 1988. The listing information is as follows:

- A. Sponsored by
  - B. Date & Site location
  - C. For details, contact
- 1) A. Brazosport ARC  
B. May 7 in Angleton, TX  
C. Steve Ray, KA5KRI, 409-297-7494
  - 2) A. Brazos Valley ARC  
B. May 10, May 28 & June 14 in Houston  
C. Stu Lamkin, WB5IGG, 713-777-3345
  - 3) A. Houston Echo Society  
B. May 28 in Houston  
C. Karl Medcalf, WK5M, 713-781-3151
  - 4) A. Sam Houston AR Klub  
B. June 11 in Cleveland, TX  
C. Sam Neal, N5AF, 713-592-2257

## NET DIRECTORIES

Sunday	West Houston RACES
8:00 p.m.	146.06 (-0.6)
Monday	Fort Bend ARES
8:00 p.m.	147.30 (+0.6)
Monday	B-VARC Public Service
8:00 p.m.	145.47 (-0.6)
Tuesday	10X Houston SHOT
8:00 p.m.	28.488
Tuesday	B-VARC CW Practice
8:00 p.m.	145.47 (-0.6)
Tuesday	AMSAT
10:00 p.m.	145.45 (-0.6)
Wednesday	B-VARC 75m Ragchew
8:30 p.m.	3.960
Wednesday	CW Net (25 to 13 wpm)
8:30 p.m.	147.32 (+0.6)
Friday	B-VARC CW Practice
8:00 p.m.	145.47 (-0.6)
Saturday	CW Net (25 to 13 wpm)
8:30 p.m.	147.32 (+0.6)

## Stories From Our Members ....

The following story was written and submitted by Henry Morrison, W5IRY. This story will be run in serial form over a period of several months. Thanks to Henry for this creative work!

### *SOS de MORRO CASTLE (Installment 4)*

For an instant the corridor leading forward cleared and they half-ran, half-stumbled, toward the bridge on a deck that was twisted and where bulkhead rivets were popping. A few moments longer and both radio men would have been on the casualty list. Third Operator Maki had been forced over the side earlier by the fire and was now adrift.

The log of WIM on Cape Cod:

"3:24 A.M. E.S.T. SOS SOS SOS DE KGOV KGOV KGOV MORRO CASTLE afire 20 miles south of ? ? ? LV. Lost name of LV (light vessel). KGOV signals dropped out and note broke up and couldn't read the word. Nothing heard after this from KGOV. WSC call immediately ? ? ? position. Several other call KGOV but missed calls. No more heard from KGOV. Word passes it was Scotland LV.

"3:35 WFCQ (City OF SAVANNA) and other call KGOV. No reply since SOS. Fire may have put radio out of commission.

"3:45 Silent period. All quiet here. Nil heard from KGOV since SOS call."

The intense heat and the raging storm affected the transmission from the MORRO CASTLE so only a few stations received the full message.

The SOS sent other radio operators and ships into action. Some ship captains did not respond for several minutes, and the admiralty inquiry felt lives were lost because of the slow response. The SOS must be responded to immediately by every ship within a reasonable distance.

The MORRO CASTLE was divided by the fire. Passengers were aft and the captain and thirteen seamen were on the forepeak. The radio operators had been immediately above the fire in a room that now glowed like the inside of a furnace. There was no way the people could communicate and no way the ship could communicate.

The ANDREA LUCKENBACH pounded through ten- and fifteen-foot- high waves to close the seven-mile gap with receipt of the first SOS.

Aboard the MONARCH OF BERMUDA, Radioman Sydney E. Jones was one of the few who received the complete SOS, between 3:26 and 3:28 a.m., with the exact location of the MORRO CASTLE. Jones' radio log showed he notified the bridge at 3:29 a.m. Captain Albert R. Francis acknowledged but the ship continued northward in the storm. The captain did not put about and close the then-ten-mile gap.

At 4:20 a.m. Captain Francis sent to the LUCKENBACH: "Have you sighted the MORRO CASTLE?" No reply.

At 4:24 a.m., one hour after the SOS and one hour moving away from the MORRO CASTLE, Captain Francis sent to the LUCKENBACH: "Am off Ambrose. Can I be of assistance?"

LUCKENBACH: "Yes. Hurry!"

The LUCKENBACH was at that moment being tossed in the sea but had lowered four lifeboats moving toward the MORRO CASTLE -- Now one huge ball of flame amidships with people jumping overboard and hands thrust from the too-small portholes for people to escape from their cabins.

Captain Francis sent the Monarch back at a full twenty knots, handling the ship like it was a motorboat. The ship heeled over to such a degree passengers rolled from their bunks. Before the MONARCH had settled completely, Francis barked the command, "Away all boats!" and eight fully-manned lifeboats hit the water at exactly the same moment.

(To be continued ...)

## STATE-OF-THE-ART RFI

by Al Mattis N5AFV

My recent RFI problem made itself known in an unusual way. I was working the Wisconsin QSO Party, and running up a fairly good score. I enjoy that contest, because Wisconsin is my native state.

I was on 20 Meters looking for the extra point bonus of CW contacts when I heard WB9SBD in Vernon County, Wisconsin, call QRZ. I started to send "de N5AFV," but before I finished the letter "D," I heard the piercing sound of my neighbor's burglar alarm. A quick check next door indicated that my neighbor was not home, and that his house was secure. I returned to my rig and worked WB9SBD and a few more stations before my neighbor's alarm shut down and reset after its automatic 5 minute cycle. As I tapped my key, the alarm began sounding again and I knew it was too much to be a coincidence - my transmissions were setting off the alarm.

I kept a very low profile as 3 Harris County Constable cars arrived to check out the alarm. I used discretion and shut down my station. My neighbor had been burglarized about 6 weeks before, and had a new alarm system installed by Brinks Security. I stayed inside as the Deputies completed their check of the house and departed.

My wife and I went out that evening, and left the children with a baby sitter. When we returned home there was a telephone message from the neighbor - call him when we get home regardless of the time. He had obviously figured out what had happened. I didn't feel that it would be a good idea for me to discuss the situation with him at midnight after returning home from a party where I had consumed a few drinks.

The next morning as I was leaving for work, my neighbor opened his bedroom window and shouted to me. He asked if I had been on the air the day before, and suggested we perform some tests to see if my radio affected his alarm. It turned out that his alarm had gone off once before when the Brinks men were there, and they suspected RFI had set it off. A check of my log indicated that I had been on 40 Meters at the time.

That evening we did a test, and found that 10, 20 and 40 Meter transmissions set the alarm off. SSB did not activate the alarm on every transmission, but CW always did. My analysis was that the problem did not appear to be frequency related, and RF overload of the alarm circuit was occurring.

The Brinks men came out a few days later to work on the alarm. They put RF filters on the leads from each sensor where they attached to the main alarm box. The leads themselves were unshielded 2-conductor wire, and sensors were in unshielded plastic cases. The

men told my neighbor that was all they could do. Any other type of work on the alarm to solve this problem would be very expensive, and the problem was clearly the fault of the ham next door.

That evening it was time for another test. I knew before I tapped the key that the alarm would go off, and, of course, it did. My neighbor explained how Brinks had told him I was at fault. I then demonstrated for my neighbor how I could arm my alarm system and transmit on any frequency or mode I chose, and not set my alarm off. My alarm company had no problem installing an RFI proof system. The ball was now back in Brinks' court.

A few days later Brinks again came out to work on the problem. Their explanation was simple. My alarm system was old and outdated; the one they installed was new and state-of-the-art. Their new system was more sensitive than mine, and employed infrared sensors which my radio was setting off. I could see that Brinks was not going to solve the problem unless they were forced to. If I did nothing, things would only get worse, and I would find myself at a legal disadvantage. My neighbor planned to go away for a month and leave his alarm system activated 24 hours a day. The problem needed to be solved before his vacation. Because the problem was not my fault, I felt that I should not voluntarily agree to any "quiet hours." Such action on my part could be legally construed as an admission of guilt and responsibility. Also, under no circumstances should I tamper with my neighbor's alarm. It was up to Brinks to cure the problem.

That evening the neighbor called me. Brinks had been out again, and he wanted to test the system. I was tuned up on 20 Meters, so we began our test on that band. Much to my surprise, the alarm did not go off. After 25 minutes of testing on all bands, I finally managed to set the alarm off on 40 Meters using CW. That was the only band that set the system off, and only two of the infrared sensors were triggered by my transmissions. My theory was that the leads to those sensors were resonant at that frequency. The leads were filtered and grounded at the main alarm box, but not at the sensors. Tremendous progress had been made in solving the problem, but it wasn't over yet. The neighbor was still going away for a month, and I do occasionally operate on 40 Meters. The problem wouldn't be completely resolved until I could operate on all bands and modes without bringing Harris County Deputy Constables to my door.

The neighbor called me the next week, and told me that Brinks would be out again the next day to install new sensors in the alarm system. My neighbor had requested that shielded wire be used to hook up the new sensors. Brinks claimed they had to special order that type of wire, and it would take a month to obtain it. My neighbor found double shielded cable in stock in a local store, and paid for it himself. When Brinks showed up the next day, it turned out that the new sensors were enclosed in a metal case. My neighbor called me that evening to test for RFI. We tested on all bands and modes, and were unable to set the alarm off. After what seemed like a never-ending ordeal, my RFI problem was finally over.



39th ARMED FORCES DAY - MAY 22, 1988

STATION	TRANSMITTER QTH	LISTEN FREQ. 8am - 9:45pm	9:50pm CALLUP 10:00pm TEST
AAE	Fort Sam Houston, TX.	4028.5 LSB 7358.5 LSB 13994.5 USB 27992.5 USB 14665.0 RTTY/CW 20992.5 PACKET	4018.5 CW 6988.0 CW 9990.0 CW
AAG	San Francisco, CA.	4033.5 LSB 14488.5 USB 6988.0 RTTY/CW	4021.5 CW 7309.5 CW 13994.5 CW
AIR	Washington, D. C.	4025.0 LSB 7315.0 LSB 14408.0 USB 13986.5 RTTY 6995.5 CW 13997.5 CW	6995.5 CW 13997.5 CW
NAM	Norfolk, VA.	14400.0 USB 14400.0 CW 14400.0 RTTY	4005.0 CW 7393.0 CW 14400.0 CW
NAV	Cheltenham, MD.	14389.5 USB 7372.5 RTTY	7372.5 CW 14389.5 CW
NMH	Alexandria, VA.	4015.0 CW 7346.5 LSB 20937.5 USB 14440.0 RTTY	
NMN	Portsmouth, VA.	7393.0 USB/RTTY/CW	
NPG	Stockton, CA.	4001.5 LSB 7301.5 LSB 14375.0 USB 21460.0 USB 13927.5 RTTY 4010.0 CW 6970.0 CW 7365.0 CW 10259.5 CW 13975.5 CW 20998.5 CW	4010.0 CW 7365.0 CW 13975.5 CW
NPL	San Diego, CA.	14385.0 USB 7382.5 RTTY	
NZJ	El Toro, CA.	14480.0 USB 7375.0 RTTY	
WAR	Fort Meade, MD.	4018.5 LSB 6997.5 CW 13992.5 RTTY/CW 14403.5 USB 20994.5 USB	4028.5 CW 6997.5 CW 14403.5 CW

# AMATEUR RADIO EMERGENCY SERVICE

## Registration Form

Name: \_\_\_\_\_ Call: \_\_\_\_\_ Class: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Bus. phone: \_\_\_\_\_ Home phone: \_\_\_\_\_ County: \_\_\_\_\_

List bands/modes you can operate: \_\_\_\_\_  
\_\_\_\_\_

List special capabilities (packet, RTTY, Mobile, etc.): \_\_\_\_\_  
\_\_\_\_\_

Do you have emergency power? [ ] Yes [ ] No

Additional remarks: \_\_\_\_\_  
\_\_\_\_\_

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

**QST QST QST QST QST QST QST QST QST QST QST QST QST QST QST QST QST QST QST QST**

To All Radio Amateurs:

The Amateur Radio Emergency Service (**ARES**) is a voluntary organization of radio amateurs, who have registered their capabilities and equipment for providing emergency communications as a public service to the community. The purpose of the **ARES** is to furnish communications in the event of natural disaster, when regular communications fail or are inadequate. Sponsored by ARRL, the **ARES** functions at the local level to meet local communications needs.

The **ARES** has a long history of public service going back to its formal inception in 1935. Since that time the **ARES** has responded countless times to communications emergencies.

Experience has proven that radio amateurs respond more capably in time of emergency when practice has been conducted in an organized group. There is no substitute for experience gained before the need arises.

The Ft Bend County **ARES** functions to meet the communications needs of the cities as well as the county government of the county. In addition services are provided to volunteer disaster services in the county.

To register in the **ARES**, send the above registration form to the Ft Bend County **ARES** Emergency Coordinator at the address below. League membership is not required for registration. Registration does not require possession of any specially designed equipment. All amateurs can be of assistance to the **ARES**. There is provision in the **ARES** for every amateur regardless of class of license, equipment or personal circumstances.

The Ft. Bend County **ARES** conducts a training Net each Monday night at 20:00 local time on the 147.30/90 repeater. Please tune in and participate.

Ed Harwell, W5WVX  
E.C. Ft Bend County  
1303 Twining Oaks  
Missouri City, Tx. 77489