



# B-VARC BULLETIN

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

Editor in Chief: Vincent Orlando, WA5ETS 774-7651 (0800-2100 hrs)

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 Fort Bend and Southwest Harris 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 each year conducts classes leading to amateur radio licenses, and each month sponsors a volunteer-examiner team that offers examinations in all levels of HAM licenses.

To obtain information about the club and its various activities, please call the Houston Amateur Radio Helpline (713) 488-4HAM (488-4426). For information about joining the club, contact Randy Pollard AK5G: residence 729-6484 or work 224-3930.

---

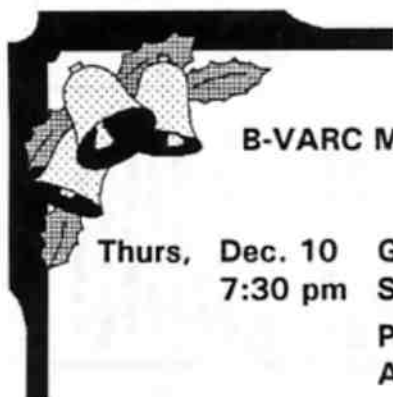
Volume: 15 Issue: 12

December 1992

---

## ADDRESS CORRECTION REQUESTED

From: *Brazos Valley Amateur Radio Club, Inc.*  
P. O. Box 1630  
Missouri City, Texas 77459



## B-VARC MEETING SCHEDULE

Thurs, Dec. 10 General Meeting  
7:30 pm Sugar Land Community Center  
Program: *Cold Fusion* by  
Al Zermeno, KK5W



Thurs, Jan. 7 Board Meeting  
7:30 pm Missouri City Fire Station

Allen Mattis N5AFV  
5314 Wigton  
Houston, TX 77096



# December 1992

## B-VarC Calendar of Events

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<b>6</b> 7:30pm South Texas ARES Net 3.873	<b>7</b> 7:30pm 34-94 Swap Net 146.94 8:00pm ARES 147.30 8:00pm Ft. Bend County RACES Net 145.49 9:00pm B-VarC Net 145. 47 & linked repeaters	<b>1</b> 8:00pm 10 X SHOT 28.488 10:00pm AMSAT 147.10	<b>2</b> 8:00pm B-VarC RAG-CHEW 3.960 (Busy? +3 Khz)	<b>3</b> 6:30pm RACES AMTOR Net 7.080 7:30pm Board Meeting: Missouri City Fire Station	<b>4</b>	<b>5</b> 7:30am B-VarC Breakfast 9:00am Hou Emergency Mgmt Net 146.84 (9:30 on 3. 905) 8:30pm C.W. 147.32
<b>13</b> 1:30pm Texas State RACES Net 7.248 7:30pm South Texas ARES Net 3.873	<b>14</b> 7:30pm 34-94 Swap Net 146.94 8:00pm ARES 147.30 8:00pm Ft. Bend County RACES Net 145.49 9:00pm B-VarC Net 145. 47 & linked repeaters	<b>15</b> 8:00pm 10 X SHOT 28.488 10:00pm AMSAT 147.10	<b>16</b> 8:00pm B-VarC RAG-CHEW 3.960 (Busy? +3 Khz)	<b>17</b>	<b>18</b>	<b>19</b> 7:30am B-VarC Breakfast 8:00am Sidewalk Sale 9:00am Hou Emergency Mgmt Net 146.84 (9:30 on 3.905) 8:30pm C.W. 147.32
<b>20</b> Happy Hanukkah! 7:30pm South Texas ARES Net 3.873	<b>21</b> 7:30pm 34-94 Swap Net 146.94 8:00pm ARES 147.30 8:00pm Ft. Bend County RACES Net 145.49 9:00pm B-VarC Net 145. 47 & linked repeaters	<b>22</b> 8:00pm 10 X SHOT 28.488 10:00pm AMSAT 147.10	<b>23</b> 8:00pm B-VarC RAG-CHEW 3.960 (Busy? +3 Khz)	<b>24</b>	<b>25</b>  Merry Christmas!	<b>26</b> 7:30am B-VarC Breakfast 9:00am Hou Emergency Mgmt Net 146.84 (9:30 on 3. 905) 8:30pm C.W. 147.32
<b>27</b> 1:30pm Texas State RACES Net 7.248 7:30pm South Texas ARES Net 3.873	<b>28</b> 7:30pm 34-94 Swap Net 146.94 8:00pm ARES 147.30 8:00pm Ft. Bend County RACES Net 145.49 9:00pm B-VarC Net 145. 47 & linked repeaters	<b>29</b> 8:00pm 10 X SHOT 28.488 10:00pm AMSAT 147.10	<b>30</b> 8:00pm B-VarC RAG-CHEW 3.960 (Busy? +3 Khz)	<b>31</b>  New Year's Eve		

30K Warmup Run

Award Nominations  
Due

## Notes From The President . . .

by Randy Pollard, AK5G

Happy Holidays! This is my last column, and I had a great year being your president. Congratulations to all of the new 1993 officers:

President	Betty Wilcox, KAØTEN
Vice-President	Doug Holley, KE5SR
Treasurer	Sam Wilson, N5CPA
Rec. Secretary	Bud King, N5UOG
Corr. Secretary	Vincent Orlando, WA5ETS
Directors	Vic Richard, N5NAS Mel Thatcher, KB5ION Gerry Borg, N5APW

Thanks to all of the 1992 officers and committee chairmen for all of them had work throughout the year.

Once again, our annual banquet will take place in January. The banquet will take the place of our monthly meeting on January 14, 1993. This first-class event will start at 8:30 pm with cocktails and dinner at 7:30. Buy your ticket at the December meeting. We already have a good many door prizes to be given away.

Special thanks to Bill Dessens, N5KXU, and Betty Wilcox, KAØTEN, for their organizing the chili cookoff. Also thanks to all who made and brought the chili, cakes, and all the fixin's. This was another great meeting!

Our December meeting speaker will be Al Zermeno, KK5W. He will talk on the status of "Cold Fusion". Also, all of the award nominations must be in to me by this meeting.

Finally, thanks to all who took such an active role in the recent tornado disaster. This was truly hams working and helping their community.

73 de AK5G

## The World of 10-10 International

by Al Mattis, N5AFV

Last month I promised to give you the results of the 10-10 International Summer Phone QSO Party in this month's column. Unfortunately, the Suncoast Chapter in Florida did not finish scoring the QSO

**B-VARC RAG CHEW CHECK-INS**  
3.960 MHz 8:00 pm Wednesdays  
Compiled by Melvin Thatcher, KB5ION

*November 4, 1992*

KB5ION NCS, KB5LFU, KG5KV, KB5USL, W5EFB, N5AFV, K15SC, N5KXU, W5GLD, WA5OEN, K5DIY, AA5PB, W5/J73TW, K15CE

*November 11, 1992*

KB5ION NCS, K15CE, N5CPA, KB5USL, W5EFB, K15FO, W5IHY, K15SC, KG5KV, W5GHK, N5AFV, N5UOG, KE5SR, WA5ETS, N5YKR, KB5LFU

*November 18, 1992*

KB5ION NCS, KG5KV, K15SC, W5IHY, W5EFB, W5/J73TW, N5AFV, W5GHK, KE5SR, W5GLD, KB5DNT, N5JBL, W5SRN

party in time for the results to appear this month, so watch next month to see if the Houston S.H.O.T. chapter continues its winning streak.

Results have been announced for the 10-10 International Spring CW QSO Party which was held May 2-3, 1992. The S.H.O.T. chapter took second place with 6 logs submitted for a total of 353 points. The Possum Trot chapter in North Carolina easily placed first in the contest with 14 logs and 904 points.

The S.H.O.T. chapter held a 10-10 Forum at the recent ham convention in Houston. It was nice to see several B-VARC members in attendance. The S.H.O.T. chapter did pick up two new members as a result of the forum.

The big 10-10 news for Houston concerns the October issue of 10-10 International News which featured a picture of KB5UEO, Casey, on the cover. Casey, who lives in South Houston, is seven years old and is the youngest member of 10-10 International. Casey has been working on upgrading to general class and passed Element 3B at a recent B-VARC VE test session. Casey was also featured in a recent issue of World Radio. It's always nice to see national coverage of a local ham and especially if the person has ties to B-VARC.

Propagation on 10 meters has been very good lately, and if you have not been on the band, you have missed a lot of fun. So please join us! Remember,

the Houston S.H.O.T. net meets every Tuesday evening at 8:00 local time on 28.488 Mhz. All amateurs are welcome to check in, even if they do not have a 10-10 number. If you are not a member of 10-10 International and wish to join the organization, please check in to the net. There are a lot of exciting activities in 10-10, and many friendly people can be found on the 10-meter band.

73 de N5AFV

---

## **The City of Houston Repeater**

by Bob White, KF5ZL

The 146.84 repeater (KF5ZL) is owned and operated by the City of Houston's Emergency Operations Center. It is the primary repeater for any emergency operations in the Houston area.

New equipment was installed in May 1992, and the call was changed to KF5ZL. The repeater is located in Allen Center, which is in the southwest corner of downtown Houston. The repeater consists of a 50-watt Kenwood commercial repeater and an S-Com controller.

### **Control Operators:**

Bob White	KF5ZL
Dick Wilkie	N5PU
Gene Whitehurst	WA5GZX
Scott Byrd	N5KEU
Bill Read	KB5FYA
Dick Wells	KH6FHS
Harold Parker	ND5F
Ron Hogan	N5HNE

Repeater access is open with the rare exception of those times when conditions require using a 103.5 Hz PL tone on the repeater's input frequency to prevent natural or man-made interference.

The status of the repeater will be announced by a combination of courtesy tones and the morse ID. "Normal" status consists of a low-toned courtesy beep and "KF5ZL/R" morse ID.

An "alert" status for the repeater is announced by a high-pitched courtesy tone. This tone should aid in gaining the attention of all persons monitoring the repeater. When this tone is heard, the use of the frequency is restricted to whatever operation or alert is in progress. Also, a 250.3 Hz PL tone will be transmitted by the control operator to "open" receivers

that have a decode capability for those persons who wish to "silent monitor" 146.840.

When the high-pitched alert tone is engaged because the Houston National Weather Service office has issued a weather watch or warning of any kind, the CW identifier will be supplemented by a "WX". When "WX" is heard, the weather watch or warning may or may not affect the Houston area. Nonetheless, the repeater is to be kept as clear as possible so that the Houston Weather Service office may exchange information with the areas it serves.

The Houston Weather Service office serves the following counties: Houston, Trinity, Madison, Brazos, Burleson, Grimes, Walker, San Jacinto, Washington, Montgomery, Liberty, Austin, Waller, Harris, Colorado, Brazoria, Galveston, Chambers, Wharton, Jackson, and Matagorda.

Any questions about this repeater and its use may be directed to either Bob White or Dick Wilkie at the City of Houston's Office of Emergency Management. The phone number is (713) 236-7750.

---

## **Results of the November Amateur Exams**

by Harold Parker, ND5F

B-VARC again sponsored and administered the ARRL's Amateur Radio Examinations this past month. Because of the Houston Ham Convention the exams were offered twice this month: once at the Sheraton Crown Hotel on Sunday morning, November 8, and again at the regularly scheduled second Tuesday evening, November 10, 1992, at Strake Jesuit College Preparatory in Houston.

### **The Ham Convention V. E. Team**

Bob Brigham, AA5ZK  
Henry Morrison, W5RIY  
George Walker, KQ5W

### **Assistants**

Carl Albrecht, AA5JW  
Ray Dillard, WA5F  
Cass Germany, KG5IT  
Ron Grimes, WA5SCE  
George Jolly, ND5E  
Allen Mattis, N5AFV  
Harold Parker, ND5F  
Randy Pollard, AK5G  
Joe Tarrant, K5DIY  
Mark Tyler, K5GO

---

A total of one hundred and nine exams were administered during the morning to fifty applicants. Twelve unlicensed candidates received their new licenses: 10 Technicians and ten "codeless" Technicians. Seven others upgraded with a total of fifty-two elements passed. The overall "pass rate" for the morning was forty-eight percent.

Congratulations to all the following who upgraded and/or passed exams at the convention:

Scott Beeman — Element 2  
Jeffrey Brown — Element 2  
James Cahanin, KB5TBZ — Element 4B  
Mark Cole — Element 2  
Patrick Collins, K5DEP — Advanced  
Rob Christie — Technician  
Lawrence Daze — Technician  
Tommie Elliott, KF5SS — Element 4B  
William Fowler — Technician  
Joyce Gent — Technician  
Richard Hedrick — Technician  
Marc Hendrickson, N5XWN — Element 3B  
Rickey Hood — Technician  
Debra Hooten, N5OIA — Element 3B  
Scott Hooten — Element 2  
Brian LeVack, KB5ESE — Advanced  
Jerome Levi — Element 2  
Jon Littmann, KB5MKP — Element 1B  
G. N. Livingston — Element 2  
Billy Lowery, WB5PKD — Technician  
Kenton Maulsby — Technician  
Matthew Mucker, KB5FWG — Technician  
Matthew Owens, KB5UJC — Technician  
Edwin Pate, N5RZO — Element 3B  
Teresa Perry, KB5VUD — Technician  
Elmer Pumphrey — Element 2  
Robert Rice, WB5PKN — Element 4B  
Fred Schaefer — Technician  
Justin Sheffield — Element 2  
James Sutherland, N5SBP — General  
George Taylor — Technician  
Billy Vaselo — Technician  
David Waddell — Technician  
Brandt Welker — Element 2  
Ollie Williams — Technician

#### The Regular 2nd Tuesday Session V. E. Team

Glenn Lewis, K15CE  
Harold Parker, ND5F  
Joe Tarrant, K5DIY

#### Assistants

Carl Albrecht, AA5JW  
Ray Dillard, WA5F  
Cass Germany, KG5IT  
Hy Gordon, NC5A  
Irene Gordon, N5AYX  
Michael Lay, N5PTN

A total of 33 exams were administered during the evening to 20 applicants. Eleven unlicensed candidates received their new licenses: 1 Technician and 10 "codeless" Technicians. Four others upgraded with a total of 27 elements passed. The overall "pass rate" for the evening was a fantastic 82%.

Congratulations to all the following who upgraded and/or passed exams that night:

John Albers, Jr. — Technician  
Scott Beeman — Technician  
Rome Burns — Technician  
Brian Burton — Element 2  
Rob Christie, Pending — Advanced  
Mark Cole — Technician  
Craig Culver, KB5USL — Advanced  
Melanie Erickson — Technician  
Richard Harrison — Technician  
Tim Hebert — Technician  
Allen Lepley — Element 3B  
Gerald Livingston — Technician  
Robert Martin, KB5MWU — Technician  
Herman McKinney — Element 4A  
Rodney Miller — Technician  
Christopher Mognann — Technician  
Byron Ratterree, KB5NOZ — Element 1B  
Kenneth White — Technician  
William Wilkerson, W5DPL — Advanced

Many thanks to all the Team Members and Assistants who volunteer their valuable time and effort each month and each year at Ham-Com.

73's ... ND5F

#### November Election Meeting

by Allen Mattis, N5AFV

The November B-VARC general membership meeting was a great success, and everyone seemed to enjoy the meeting. Over ninety persons were in attendance, and the chili and refreshments were delicious. Thank you to Bill, N5KXU, and Betty, KA0TEN, for coordinating the refreshments, and a special thank you to everyone who brought something to eat or helped in any way.

The program consisted of the election of officers for 1993. Congratulations to the new officers whom Randy has already named in his column. Randy himself, AK5G, will serve on the board as the immediate past president of the club. The new

officers will assume their responsibilities in January, 1993. Good luck to the new club leadership, and I urge any club members who wish to take an active role in B-VARC to please contact Betty, KAØTEN, and volunteer. B-VARC is only as good as we all make it!

I wish to thank Bill, N5KXU, and Jack, WN5A, for serving on the Nomination Committee. Two other past presidents, Harold, ND5F, and George, ND5E, also assisted the committee; and their input and interest were very much appreciated. The relatively large number of past presidents active in B-VARC is certainly one of our club's strong points. Thank you also to the various club members who spoke with those of us serving on the Nomination Committee and offered suggestions and comments. It was a pleasure to serve B-VARC as chairman of this year's Nomination Committee.

---

### **1992 B-VARC Picnic** by Doug Holley, KE5SR

The annual club picnic was held on October 24th at Doug and Marie Holley's home in Rosenberg as usual. Someone must have smiled on our group as things could not have been better.

The weather was perfect with the temperature in the mid 70's. The day was sunny, but a shady spot under the big pecan tree was just perfect.

The meal this year was catered unlike those of the past. It consisted of barbecued links, chicken, and sliced beef. Lots of side orders of beans and slaw were available also. We had the caterer furnish one hundred meals, and we sold seventy plates. The remainder of the feast was stored until the next weekend when the B-VARC campout finished it off.

This year we welcomed a lot of new faces at the picnic, far too many to name. We were happy to see them and look forward to having them back at future picnics. We also saw most of the familiar faces that we have seen for many years. We are happy that they all came and look forward to many more picnics together in the future.

So many people helped to make the day a complete success that I can't list them all. But I am sure you

know who you are. My sincerest thanks to all that helped to make our day go well. One person of note that stands out is Al, KK5W, with his dog Cindy. What a pair!

I welcome your suggestions for our next picnic. We can always use that. Thanks one and all for a wonderful B-VARC day.

73's, Doug

---

### **Sferics on the Long Wave Band** by Al Mattis, N5AFV

Some of the current research on the long wave band (below the AM broadcast band) concerns sferics or static discharges due to lightning. There are approximately 1,800 thunderstorms in progress at any given time, and over a million lightning strokes occur each day. We are all used to hearing static from lightning on the ham bands, but as one tunes lower in frequency, the effect becomes more pronounced. Most amateurs know that QRN is usually worse on 80 and 160 meters, but what happens on long wave? On these lower frequencies, the effect is even more pronounced. Only a small portion of the QRN from lightning extends up to the HF band. It is on these very low frequencies where sferic research is currently underway.

We all know that QRN increase as a thunderstorm approaches. Amateurs tend to think of QRN from lightning as being local in nature. In general, we only hear the QRN on HF when the storms are nearby. Recent studies on long wave, however, indicate a somewhat different picture. Long wave sferics are propagated over greater distances. An analysis of midday sferics from California, Tennessee and New York indicated that many of the same sferics were heard at all three locations. Experiments in Italy and Antarctica also suggest that the same sferics were heard at both places. At long wave frequencies, the more intense sferics are apparently propagated around the world.

Scientists have found a unique way to make use of sferics in their research. One of the most scientifically controversial topics today is global warming. Very little scientific data exists to prove that global warming even exists. It is difficult, if not impossible, to document changes of only 1 or 2 degrees in the

average temperature of the earth. Reliable temperature data only extend back for decades, while geological data suggests that terrestrial thermal cycles may occur on the order of hundreds or even thousands of years. Sferics may help measure changes in the earth's average temperature over short periods of time. Scientific observations have shown that an increase in the average monthly temperature of 2 degrees Celsius would increase lightning activity by a factor of 100. An attempt is underway to organize a worldwide network of stations to record sferics, and determine if they are increasing in number. Such a network may provide reliable data concerning short term terrestrial thermal changes.

Scientists have also found other areas of research where the long wave band may provide helpful information. Watch for future articles about these exciting ongoing research efforts.

## Packet Radio News

by Ray Dillard

I hope to make this a regular, or at least frequent, column in the *Bulletin*. My purpose is to provide information and news to those who enjoy packet radio or who would like to learn more about this unique form of amateur communications. In this introduction to packet, I would like to begin by listing some important and helpful organizations:

T.A.P.R.  
Tucson Amateur Packet Radio  
P.O. Box 12925  
Tucson, AZ 85732

T.P.R.S.  
Texas Packet Radio Society  
P.O. Box 50238  
Denton, TX 76208-0238

T.C.A.P.S.  
Texas Coastal Amateur Packet Society, Inc.  
P.O. Box 3109  
Spring, TX 77383-3109

T.A.P.R. Offers a lot of software support and a quarterly news letter. T.P.R.S. also offers a quarterly news letter and maintains a current list Texas nodes and paths. T.C.A.P.S. is the local packet support group.

Here are some notes about what you will find on the local digital network:

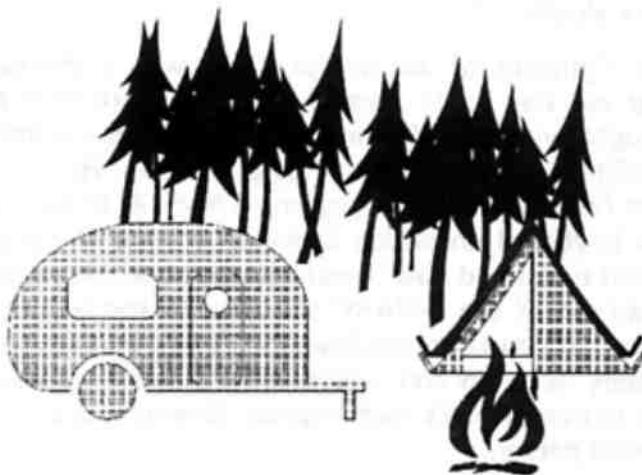
- 145.010 networking, local node, IAHBPQ
- 145.030 ragchew, local digi's, WA5F-1 and POND
- 145.050 ragchew, local digi's, AXH
- 145.070 ragchew, local nodes, WDLBPQ, PLD07 and BTN
- 145.090 PBBS, local node, HOUBPQ

See you all next month. 73's

## 1992 B-VARC Campout

by Doug Holley, KE5SR

Something new this year for our club, a B-VARC campout was held October 31st at Stephen F. Austin Park near Sealy. There was something for everyone: fellowship, fish, a fantastic food feast, phone and CW ham radio, and even fifty-four mile per hour winds in a thunderstorm.



We had about thirty campers and Cindy, three tent trailers, six tents and one car sleeper. Several other club members and their families came for the day but did not brave the night.

Al, KK5W, had both two-meter and HF operations going. It was all but impossible to get a spot at Al's 940 rig as Craig found out that you really can make a contact on HF. He worked his first DX contact there.

Charlie, KG5KV, furnished pounds of Coral Trout and White Fish shipped to him from his friends in the Pitcairn Islands. He and Oraidia cooked up a tasty treat — different from any fish that I had eaten from this area but with a great flavor. Thanks to you, Charlie, for bringing out the fish and for cooking it up just right.

Even with all the fish we couldn't let the leftover barbecue from our picnic go to waste (maybe waist?); so we ate that too! No one went hungry, but most of us did suffer from overeating.

The day was sunny and a little hot, but the nite was pleasant... until about two am. A big thunderstorm rolled through. I chose to ignore it, but finally the rain in the tent got to me and I had to get up and look for a dry spot. If I had installed the rainfly on my tent, there would have been no problem; but when we all went to bed, the night sky looked great. Boy, did I learn my lesson!

Rick Fitch, N5XVZ, left his ham gear outside on the picnic table, but all seemed OK when we dried it out. One tent with campers and two campers who spent the night in their car were gone when daylight arrived. We did not know if they blew away, washed away, or just had the good sense to drive away. I contacted them late Sunday to be sure that they were alright.

The highpoint of our camping trip was a thirteen year old boy scout named Shannon York that Al brought with him. Shannon is blind but is a bright, intelligent lad that stole all of our hearts. He loves *Star Trek* and wants to become a ham. Al brought a CW keyboard on which Shannon proved to be an expert typist and now is learning the code. He wants to attend all the B-VARC activities in the future. I hope that you will meet Shannon soon if you haven't already done so and welcome him and encourage him to continue his ham interest. Shannon is a very special person.

The B-VARC campout was our first for the club, but judging from the turnout and the comments, we will schedule one next year and hope for an even bigger turnout.

We as a public service organization spend so much of our time and energy serving the community that we forget sometime to take time to do the things we like to do as a group. The campout is a good example. One member suggested to me that in 1993 we should have a B-VARC bike ride. I agree. Your suggestions are encouraged and welcome. Please let us know.

## **Downtown 25K Race Communications** by Al Mattis, N5AFV

A total of thirty-one amateur radio operators provided communications for the Dow Chemical Downtown 25K on November 22, 1992. It was a cold morning with temperatures in the low 40's, and the wind chill was even lower. Because of the 7 am race start, volunteers had to arrive and find their places in the dark. Sunrise was at 6:52 am.

The race, which had a course along Memorial Drive, went very well. There were no serious medical problems among the 1,750 runners. Because of the early start, the communications volunteers were finished at 10:30 am. Despite the chilly temperatures, everyone appeared to have an enjoyable time.

B-VARC extends a special thank you to Houston Emergency Management for use of the 146.84 Mhz repeater for talk-in. On behalf of the race officials, thanks also to everyone who helped provide race communications.

---

### **January Bulletin Deadline**

Articles and other material destined to be printed in the January issue of the B-VARC *Bulletin* should be submitted by no later than December 30th. Please send the material to Vincent Orlando WA5ETS; 8900 Bellaire Boulevard; Houston, Texas 77036-4698 or FAX (713) 774-8427.

---

### **RUN YOUR BUSINESS CARD AD HERE!**

Contact: Steve Gottlieb, WA5OEN  
bus. 785-4646, res. 933-7249

# 1992 ATTENDANCE ROSTER B-VARC GENERAL MEETINGS

		S E P	O C T	N O V				
AA5JW	Carl Albrecht				KI5CE	Glenn Lewis	✓	
KB5USR	Mike Arnett	✓	✓	✓	KB5UEE	Leonardo Magallon	✓	✓
W4FBG	Dick Atkinson				N5AFV	Al Mattis	✓	✓
N5KXA	Richard Baker		✓		KA5DKS	Ken McAninch	✓	✓
WA2EJO	Robert Berger		✓	✓	N5UGG	Excem McCasland	✓	✓
W5NRJ	Bill Brauning	✓			N7ZBV	Mike McCasland	✓	✓
KB5KLY	Don Brown, Sr.	✓			KG6JCM	Scott McCasland	✓	✓
KB5SWH	Don Cassling	✓			WB5UTM	Ian McNeill	✓	✓
KB5DNT	Ralph Cheek			✓	N5WLY	Scott Merryman	✓	✓
WB5YDD	Bill Clarke	✓			N5YKS	Robert Mayers	✓	✓
N5TC	Tom Comstock	✓			AA5LF	Terry Michnimer	✓	✓
N5OUZ	Lawrence Cox	✓	✓	✓	N5GZW	Steve Moynihan	✓	✓
N5TGN	Alan Crawford		✓		N5RBT	Herb Nance	✓	✓
N5YKY	Barbara Creel			✓	WA5ETS	Art Neumeyer	✓	✓
N5LYB	Fred Creel			✓	ND5F	Vincent Orlando	✓	✓
KB5USL	Craig Culver			✓	KI5DR	Sandra Owen	✓	✓
	Richard Culver	✓			AK5G	Harold Parker	✓	✓
N5UNE	Tony Cypert			✓		Scott Pederson	✓	✓
WA3PMT	Steven Deaktor		✓	✓	KB5UTB	Randy Pollard	✓	✓
N5KXU	Bill Dassens	✓	✓	✓	KB5RZM	Judy Poteet	✓	✓
WA5F	Ray Dillard	✓		✓	KG5KV	Lanny Poteet	✓	✓
N5JBL	Stephen Dunkelberger	✓		✓	N5YKR	Blake Present	✓	✓
WB4LZG	Glenn Edwards	✓	✓	✓	N5NAS	Charles Prochaska	✓	✓
KB5KLH	Melanie Edwards	✓	✓	✓	N5JKD	Michael Ricco	✓	✓
B5ICO	Susan Edwards			✓	KB5TMY	Vic Richard	✓	✓
W5LK	Ed Evans	✓	✓	✓	AA5BD	Robert Ricketts	✓	✓
N5XVZ	Rich Fitch	✓	✓	✓	N5XGT	Jack Roberts	✓	✓
N5KAB	Greg Gatterson	✓			WA5G	Joe Ross	✓	✓
WA5OEN	Steve Gottlieb		✓	✓	KB5VSY	Gene Russell	✓	✓
KB5LOY	Carl Hacker	✓	✓	✓	K5HFY	Eddie Saifi	✓	✓
N5VRR	Don Hadley		✓		N5URI	Steve Schuster	✓	✓
WB5SRN	Dick Hagerman			✓	N5SDL	Frank Secor	✓	✓
N5VCX	Mike Hardwick	✓		✓	N5PRC	Claude Sessions	✓	✓
N5LCY	Betty Haw	✓			KB5EXM	Guy Shechter	✓	✓
N5VCX	Mike Hardwick	✓				Steve Shirk	✓	✓
N5YKW	Edd Handee				N5WMA	Steve Skelton	✓	✓
N5JOH	Paul Holcombe			✓	N5XWD	Irv Smith	✓	✓
N5ULY	Paula Holcombe			✓	KB5URT	Jane Smith	✓	✓
KE5SR	Doug Holley	✓		✓	N5TGM	Oraida Starr	✓	✓
N5RZN	Emmett Jackson			✓	N5RKM	Don Stevenson	✓	✓
N5YKV	Marc James		✓	✓	K5DIY	Esther Stiver	✓	✓
W5EFB	Jim Jeffries	✓			KB5ION	Frank Stiver	✓	✓
ND5E	George Jolly	✓	✓	✓	KB5UEI	Ted Sumnerlin	✓	✓
KG5CB	Bill Kemp	✓		✓	KB5UWI	Joe Tarrant	✓	✓
KB5USX	Danile Kerr	✓			KD5JC	Malvin Thatcher	✓	✓
N5UOG	Bud King	✓	✓	✓	WN5A	Tom Tiemann	✓	✓
	Janis Kinghof	✓			WB5IBT	Don Tipton	✓	✓
N5VCZ	Grayson Knapp	✓			N5XWB	Ed Truitt	✓	✓
W5IHY	Claudia Kozinetz	✓		✓	N5ZUE	Jack Van Demark	✓	✓
5OUT	Lou Kronberg	✓	✓		KF5ZL	Don Wade	✓	✓
NJ5BG	Dick Kruse			✓	KI5OT	Donn Washburn	✓	✓
N5PTN	Bob Kunesch	✓		✓	N5UOA	Gerald Webb	✓	✓
	Michael Lay	✓		✓	KA0TEN	Bob White	✓	✓
KB5TIB	Patricia Layton	✓	✓	✓	N5YYP	Lawrence Whitehead	✓	✓
WD5DRB	Thomas Layton	✓	✓	✓	N5CPA	Mark Widerstorm	✓	✓
	Larry Levy	✓	✓	✓	WB5SHU	Betty Wilcox	✓	✓
					W5GLD	Larry Wilson	✓	✓
					KX5W	Sam Wilson	✓	✓
						Clem Winford	✓	✓
						Frank Wood	✓	✓
						Al Zermeno	✓	✓
						TOTAL:	71	48 67

# 1992 B-VARC PUBLIC SERVICE HONOR ROLL

Compiled by Stephen Dunkelberger, N5JBL

- |                                  |                                 |                   |
|----------------------------------|---------------------------------|-------------------|
| A. Houston Marathon              | D. B-VARC Special Event Station | G. 25K Warmup Run |
| B. MS 150 Bike Ride              | E. 20K Warmup Run               |                   |
| C. Clean Air Challenge Bike Ride | F. Alamo Challenge              |                   |

Albrecht, Carl	AA5JW	B,E,F	Lewis, Glenn	KI5CE	O
Baker, Richard	N5KXA	G	Mattis, Allen	N5AFV	A,D,G
Borg, Gerry	N5APW	A,D	Michnimer, Terry	N5YKS	B
Brighton, Bob	AA5ZK	B,D,F	Morrison, Henry	W5RIY	A,G
Chambers, Marion	KB5PAJ	E,G	North, Max	N5TBI	B,C,F,G
Chambers, Mike	N5QCE	E,G	Onda, Terry	KI5FO	B,E,G
Cheek, Ralph	KB5DNT	A,B,C,E,F,G	Orlando, Vincent	WA5ETS	A,D,G
Clemmons, Bill	N5XWT	D	Parker, Harold	ND5F	A
Cox, Lawrence	N5OUZ	E,G	Pederson, Scott	KI5DR	A,B,F
Creel, Fred	N5LYB	D	Pokladnik, Roger	KB5LFU	B,C,F,G
Culver, Craig	KB5USL	E,G	Pollard, Randy	AK5G	D,G
Cypert, Tony	N5UNE	B,D,E	Prochaska, Charlie	KG5KV	D
Daaktor, Steve	WA3PMT	D	Richard, Vic	N5NAS	D
Dessens, Bill	N5KXU	A,C,D,E	Ricketts, Robert	N5JKD	B,E
Dillard, Ray	WA5F	A,B,C	Roberts, Jack	KB5TMY	F,G
Dunkelberger, Steve	N5JBL	D,E,G	Rogers, Dennis	N5VRP	B,F
Edwards, Glenn	WB4LZG	A,B,E,G	Ross, Joe	AA5BD	B
Edwards, Melanie	KB5KLH	B	Shechter, Guy	N5URI	C,D
Edwards, Susan	KB5ICO	A,B	Shirk, Stephen	N5SDL	A,B,D,G
Eilers, Wade	WN5TEN	B	Shorthose, Ron	N5PHL	B,E,F,G
Estrella, Jesse	N5XWO	B	Skelton, Steve	N5PRC	D
Fitch, Rick	N5XVZ	D	Smith, Irv	KB5EXM	A,F,G
Friedenberg, Henry	N5HF	A	Snitkin, Richard	N5VTV	D
Gordon, Irene	N5AYX	A	Stanley, Tim	N5PHM	A,B,F
Hacker, Carl	KB5LDY	A,C,D,E,G	Starr, Oraida	N5WMA	C,E,G
Hadley, Don	N5VRR	D	Stiver, Esther	KB5URT	E,F,G
Hagerman, Dick	WB5SRN	A,B,C,D	Stiver, Frank	N5TGM	C,E,F,G
Hammer, Dave	WJ5B	B	Thatcher, Mel	KB5ION	D
Hardwick, Mike	N5VCX	A,B,E,F,G	Van Demark, Jack	WN5A	A,E
Harris, Ron	N5MKO	A,B,C,F,G	Wade, Don	WB5IBT	A,B,D,E
Herbert, Earl	WB1CCH	E	Webb, Gerald	N5ZUE	D,E,F,G
Hughes, Kelly	N5ULZ	A,E	White, Bob	KF5ZL	A
Jackson, Emmet	N5RZN	A	Whitehead, Lawrence	KI5OT	C
Kemp, Bill	KG5CB	B,D	Williams, Tony	J73TW	D
King, Bud	N5UOG	A,B,C,D,E,G	Wilcox, Betty	KA0TEN	D
Kozinetz, Claudia	N5VCZ	A,C,D,E,G	Wilson, Bill	KA5GHI	B,C,F
Kytle, Elton	N05C	D	Wilson, Larry	N5YYP	E,G
Lay, Michael	N5PTN	A,B,F	Winford, Clem	WB5SHU	A,D
Levy, Larry	WD5DRB	A,D			

Please report corrections or additions to N5JBL

## GADGETEER'S ELECTRONIC SUPPLY

9890 WESTPARK DRIVE  
HOUSTON, TX 77063  
PH: (713) 878-8575  
FAX: (713) 878-8576

**LOU MARINO**  
PRESIDENT

MFJ  
ARRL  
ALINCO  
LARSEN  
HUSTLER  
LAKEVIEW  
VAN GORDON  
10% DISCOUNT TO HAM'S  
(On Selected Merchandise)



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

Lou Kronberg  
Chairman of the Board  
**W5IHY**

## CITY ELECTRONIC SUPPLY

7015 Atwell  
Houston, Texas 77081  
(713) 663-6066  
Alex — WA5UHT

*Serving the Electronic Community with a wide  
variety of small parts: plugs, connectors, wire,  
boxes, chassis, toroids, RF chokes, etc.*

Now stocking Larsen antennas!

## EPO

### ELECTRONIC PARTS OUTLET INC.

2815 FONDREN, HOUSTON, TEXAS 77063 • (713) 784-0140  
FAX (713) 784-8740

Components, test equipment,  
computers, cable, meters,  
surplus bought and sold.

Mon-Fri 9-6, Saturday 9-5

Car Stereos • Car Alarms • Car Phones  
Custom Installation Services

## River Oaks Car Stereo

Eddie Runner - N5PNK  
(713) 661-9981

5532 Weelayan  
(behind Randall)  
Houston, TX 77005



Off.: (713) 498-4386  
Res.: (713) 879-9511  
Fax 498-2292  
STATE FARM  
INSURANCE COMPANIES  
HOME OFFICES: BLOOMINGTON, ILLINOIS

**BOB KUNESH, ChFC**  
Agent

12135-B Bissonnet  
Houston, TX 77099

KJ5BG  
x-WA5NRM

INDUSTRIAL • AMATEUR • SURPLUS

**DONALD P. BUSICK**  
MADISON ELECTRONICS SUPPLY, INC.

KSAAD  
WSUW

12310 ZAVALLA ST.  
HOUSTON, TEXAS 77065  
PHONE 713-729-7300  
1-800-231-3057 (U.S.)

(713) 587-1064

## HAMMER COMMUNICATIONS

**DAVE & CINDY HAMMER**  
2407 QUIVER DR.  
HOUSTON, TX 77067  
WJ5B & N5LXE

RADIO CONSTRUCTION, REPAIR, INSTALLATION  
BROADCAST & TOWER SERVICES

**HARRIS**  
MANAGEMENT TECHNOLOGY

*Increase sales & efficiency!*

GoldMine sales management software helps you get results by making your sales cycle more effective! Call today for information.

RON HARRIS  
(aka N5MKO)  
Phone 713/961-9600

*Beltoné*

BELTONE  
HEARING AID  
AND AUDIOLOGISTS

*Better Hearing Through Professional Care*

LAWRENCE COX, BC, NBC-HIS  
CERTIFIED AUDIOPROTHEOLOGIST N8082

BELTONE HEARING AID CENTER

3410 AVENUE H  
HOUSTON, TEXAS 77421  
713/342-1206

5708 FONDREN  
HOUSTON, TEXAS 77036  
713/977-5781

 **PLEASE DON'T FORGET!**

- \* **YOUR NOMINATIONS FOR ANY OF THE B-VARC AWARDS ARE DUE BY THE DECEMBER 10TH MEETING.**
- \* **30K WARMUP RACE WILL BE ON SATURDAY, DECEMBER 12TH. THIS IS THE LAST PUBLIC SERVICE EVENT OF THE YEAR.**
- \* **PLAN TO ATTEND THE ANNUAL BANQUET AND AWARDS CEREMONY ON JANUARY 14TH, 1993. TICKETS WILL BE ON SALE AT THE DECEMBER MEETING. IT SHOULD BE A GREAT TIME!**