



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, at (713) 667-5123.

Volume: 16 Issue: 7

July 1993

ADDRESS CORRECTION REQUESTED

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



B-VARC MEETING SCHEDULE

Thurs, July 8 General Membership Meeting
7:30 pm Sugar Land Community Center
Program: *Legal Aspects of ELF Radiation* by Carl Hacker,
KB5LDY

Thurs, August 5 Board Meeting
7:30 pm Sugar Land Community Center

Allen Mattis N5AFV
5314 Wigton
Houston, TX 77096

July 1993

B-VARC Calendar of Events

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
4 7:30pm South Texas ARES Net 3.873	5 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	6 8:00pm 10 X Shot 28.488 10:00pm AMSAT 147.10	7 8:00pm B-VARC Rag-Chew 3.960 (Busy? +3 KHz)	8 7:30pm General Meeting: Sugar Land Community Center	9	10 7:30am B-VARC Breakfast 9:00am Hou Emergency Mgmt Net 146.84 (9:30 on 3.905) 8:30pm C.W. 147.32
11 1:30pm Texas State RACES Net 7.248 7:30pm South Texas ARES Net 3.873	12 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	13 7:00pm Amateur Exams (Strake Jesuit College Prep) 8:00pm 10 X Shot 28.488 10:00pm AMSAT 147.10	14 8:00pm B-VARC Rag-Chew 3.960 (Busy? +3 KHz)	15	16	17 B-VARC Campout 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
18 7:30pm South Texas ARES Net 3.873	19 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	20 8:00pm 10 X Shot 28.488 10:00pm AMSAT 147.10	21 8:00pm B-VARC Rag-Chew 3.960 (Busy? +3 KHz)	22	23	24 7:30am B-VARC Breakfast 9:00am Hou Emergency Mgmt Net 146.84 (9:30 on 3.905) 8:30pm C.W. 147.32
25 1:30pm Texas State RACES Net 7.248 7:30pm South Texas ARES Net 3.873	26 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	27 8:00pm 10 X Shot 28.488 10:00pm AMSAT 147.10	28 8:00pm B-VARC Rag-Chew 3.960 (Busy? +3 KHz)	29	30	31 7:30am B-VARC Breakfast 9:00am Hou Emergency Mgmt Net 146.84 (9:30 on 3.905) 8:30pm C.W. 147.32
1 6:30pm RACES AMTOR Net 7.080 7:30pm Board Meeting: Sugar Land Community Center	2	3 7:30am B-VARC Breakfast 9:00am Hou Emergency Mgmt Net 146.84 (9:30 on 3.905) 8:30pm C.W. 147.32	4	5	6	7

Notes from the President . . .

by Betty Wicox, KAØTEN

How time flies when you are having fun or when you are responsible for writing an article which has a deadline. Every month this deadline sneaks up on me. This month is no exception.

By the time you read this you will already know what happened about Field Day. Rain has really been a problem for us this year. The campout and fishing trip had to be cancelled and now we are dealing with tropical storm rains. As I type this I can tell you that I know Pavillion #3 at Bear Creek is under water. I went by and checked it today. The park is trying to find us another location which is dry, but the outlook is not good.

B-VARC participates in two regularly scheduled nets, 2-meters (145.47 Mhz) Monday night at 9:00 and HF (3.960 Mhz) Rag Chew Net on Wednesday night at 8:00. Both of these nets are run by volunteer net control operators on a rotating/random basis.

If you ever thought you would like to participate in a real emergency and would be good at it, now is the time to find out. Volunteer to help out as net control on these nets. This is a skill you don't want to have to learn when in a real emergency. The time to learn the skill is when you can practice under normal conditions, and this practice will see you capable and competent to assist in a real emergency. It's OK to be nervous. Hams are good sports. They will see you through while you get a handle on it.

Al Zermeno, KK5W, gave the June program which had hams literally sitting on the edge of their chairs. This is a two-part program with Carl Hacker, KB5LDY, presenting the second half. Even if you missed the first part, you will find the second part interesting and worth hearing.

Dues to the rains in May, the B-VARC campout was rescheduled for July 17th. Doug Holley, KE5SR, will be expecting to hear from you about your plans to attend.

August is the regular ice cream social/meeting. Bring the XYL and harmonics. But most of all, bring ice cream! Dick Kruse, N5OUT, will be coordinating this extravaganza as he did last year. Please sign up with him if you plan to bring goodies. Ice cream toppings, aerosol whipped cream, chopped nuts, fruit cocktail, cookies, cake, pie, etc. are the types of things you can bring if you don't have an ice cream freezer for

B-VARC RAG CHEW CHECK-INS

3.960 MHz 8:00 pm Wednesdays

Compiled by Melvin Thatcher, KB5ION

June 2, 1993

W5IHY NCS, KB5ION, KB5USL, W5EFB, KI5SC, WD5DRB, N5UOG, N5CPA, N5OAC, KG5KV, N5AFV, W5GLD, KB5LFU

June 9, 1993

KB5ION NCS, KB5LFU, N5CPA, N5AFV, KG5KV, KI5SC, N5OAC, WA5TWL, W5GHK, N5UOG, NL7PQ, N5JBL

June 16, 1993

KE5SR NCS, KB5ION, KB5USL, N5UOG, KB5LFU, N5AFV, W5GHK, N5OAC, KG5KV, KI5SC, W5GLD

June 23, 1993

KB5USL NCS, KE5SR, WN5A, N5AFV, N5CPA, W5GLD, N5KXU, N5OAC, KB5TIB, KB5LFU, KI5SC, W5EFB

June 30, 1993

KB5USL NCS, KE5SR, N5AFV, KI5SC, W5IHY, WA5EON, N5CPA, N5OAC, KB5TIB, W5EFB, KG5KV

the homemade kind and can't keep the store-bought kind from melting on the way to the meeting.

Our plan this year is to find a way to keep the ice cream from melting. I am open for suggestions. Maybe a child's swimming pool filled with ice. A good time will be had by all. Ugh! I hate that expression!

73 de Betty

The World of 10-10 International

by Al Mattis, N5AFV

The S.H.O.T. chapter continues to wait for the official results of the 1993 Winter QSO Party. The chapter has received unofficial word that the City of Lights chapter in Illinois won the QSL party, but the reports have conflicting details. We will just have to wait for the next issue of the 10-10 International News to see the details. The S.H.O.T. chapter will be looking for all the help it can get in the 1993

Summer QSO Party. If you have been thinking of joining the chapter, do it now! If you've been planning to help the chapter in a QSO party, mark your calendar for August 7-8, 1993! The S.H.O.T. chapter's record setting winning streak may have been broken, but that's no reason to give up on the fun and excitement of participating in the QSO parties.

The S.H.O.T. chapter is pleased to welcome two new members. KB5VTB, Lanny Poteet, and KB5YVT, Mike Hance, joined the chapter this past month. The chapter extends a warm welcome, and we look forward to having others join us in future nets.

This past month many paper chaser's were targets of a phony equipment sales scam. A former chapter head and certificate manager in Nevada announced that he was giving up his position and found another person to take his place. A few weeks later, approximately 800 Ten-Ten members throughout the nation received a letter from him offering his amateur radio equipment for sale. At least eighteen persons reportedly sent him \$1,200 checks for his TS-940. Several other transceivers, amplifiers, VHF/UHF gear, antenna tuners, scanners and similar equipment were also offered for sale. The FBI knows of at least \$115,000 that he collected, and the actual total may exceed a quarter of a million dollars. The man has disappeared, and the FBI has reportedly learned that he obtained his amateur license, N7KRS, under an assumed name. The investigation continues.

Sporadic E propagation has been present on the ten-meter band almost every day. In the past month, I have worked stations in twenty-one states and three foreign countries. I worked most of these stations while operating mobile with twenty-five watts. Many new operators have been taking advantage of this propagation to get a good start on their ARRL Worked All States award. As stated last month, the ten-meter band is far from dead, so check out the band occasionally, and you may be rewarded with one of these summer openings.

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 into 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

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

Beltone

BELTONE
HEARING AIDS
AND AUDIOMETERS

Better Hearing Through Professional Care

LAWRENCE COX, BC, NBC-HIS
CERTIFIED AUDIOPROSTHOLOGIST NS04Z

BELTONE HEARING AID CENTER

2410 AVENUE H
ROSENBERG, TEXAS 77471
713/342-1205

5706 FONDREN
HOUSTON, TEXAS 77036
713/977-8781

Delta Loop Antennas

by Doug Holley, KE5SR

Over the past fifteen years I have built and used a dozen or so delta loop antennas. I personally have had very good luck with the loop, more so than with most other antennas. I have experimented with feeding them at various points, have used baluns, and presently I am using sixty feet of 600 ohm open-wire feed line.

The shape of the loop makes little difference. I like triangle shapes, but sometimes we do not have the room to make a perfect triangle. I know many people that have made squares or other odd shapes to fit their real estate. They all work but polarization and radiation resistances do change with shape configurations.

My best results have been in the configuration of an inverted "V" with the coax fed from one of the lower corners. With this configuration the radiation resistance at the loop is about 80 ohms. I like to match the loop connection with a half wavelength of

75 ohm coax, then convert to 50 ohm to the shack, and seldom is an antenna tuner needed.

Presently I have an 80-meter delta loop up about 60 feet high. I am not feeding it as I usually do from a lower corner, but I am feeding it midway with 600 ohm open-wire feed line. This requires a tuner, but this loop with the open-wire feed lines appears to work better than any I have ever constructed. At the tuner I can disconnect one lead and use the delta as a long wire on 160 meters. I have used the delta with both wires to the tuner on all the upper bands, and I can't tell much difference in gain between my Mosley TA53 yagi at 100 feet and the loop.

If you use coax to feed a delta in the middle, your radiation resistance typically will be over 200 ohms and a 4 to 1 balun is best used. With the balun you can use 50 ohm coax to the shack, and the match should be good.

The loop is easy to build, simple to configure, and will work well for you. Many of our club members such as KG5KV, WN5TEN, W5IHY, and others have built many loops over the years, and we find that they work well.

For all the dipole builders, I urge you to build a loop, configure your feed line correctly, and enjoy the long-term positive results from a loop.

B-VARC Board of Directors Meeting Minutes, June 3, 1993 by Bud King, N5UOG

A quorum of the B-VARC Board of Directors met at the Sugar Land Community Center on June 3, 1993. This was the sixth meeting of the Board of Directors for the 1993 calendar year.

The minutes of the May 6th meeting were submitted by Bud King, N5UOG, and approved unanimously.

The Club Treasurer, Sam Wilson, N5CPA, reported a balance of \$3,912.26 in the treasury as of May 31, 1993. The Treasurer's report was approved unanimously.

President Betty Wilcox, WA0TEN, welcomed the new Board Members, three Committee Chairmen, and five visiting club members to the meeting.

Vice President Doug Holley, KE5SR, reported that the details for Field Day were being firmed up. A dinner will be served Saturday evening between 4:30 and 5:30; it was decided to charge \$5.00 per ticket for the dinner. Tickets will be made available to the membership at the regular B-VARC meeting on June 10. Dinner tickets will also be available at the Field Day site on a first-come basis.

Mel Thatcher, KB5ION, was welcomed back after an accident resulting in his being absent from two Board Meetings. Mel stated that the Wednesday night B-VARC Rag Chew Net was holding up well in the summer months with twelve to fifteen check-in's each week.

Vincent Orlando, WA5ETS, notified the Board that the Club membership had reached the 234 figure. Vincent stated that he would investigate the possibility of securing a "Bulk Mail Permit" for the club. The number of B-VARC *Bulletin's* being mailed each month may warrant the use of a "Bulk Mail Permit".

Larry Levy, WD5DRB, will chair a committee consisting of Gerry Borg, N5APW, and Bill Dessens, N5KXU, with the purpose of studying the suggestions made by Larry concerning identification banners, flags, and honorary life memberships. Their findings will be reported at the next Board meeting.

Al Zermeno, KK5W, confirmed that he would present the program on June 10 with the subject being "ELF Electro Magnetic Radiation" and "Field Day Information". As Chairman of this year's Field Day, Al explained the "Point System" involved in the various operations of that event. He apprised the Board of his efforts to inform the media about B-VARC's involvement in Field Day. A motion was made, seconded, and passed unanimously that the call sign to be used for Field Day would be KK5W. Al stated that he was honored to have his call sign used for the event.

The Board Meeting was called to order at 7:30 P.M. and was adjourned at 8:15.

July Meeting Program Preview by Carl Hacker, KB5LDY

In recent months the news media have carried stories reporting on the concerns of some people that we are at risk of contracting a variety of illnesses from our exposure to such emitters of electromagnetic force as power lines, electric blankets, and

cellular telephones. These stories often refer to law suits by some to recover damages and to demands by others that the federal government limit exposure of the general population through regulation. Last month, Al Zermeno outlined the biological mechanisms that might underlie this perceived relationship between emf and disease. At the July meeting, Carl Hacker will continue this series by first explaining *how to bring a lawsuit if you believe you have a disease that was caused by someone exposing you to emf*. Then, he will discuss the kinds of evidence or proof you will need to win your case. After first explaining how the biological studies reviewed by Al Zermeno last month could be used, he will introduce some techniques used by epidemiologists, who study how diseases are distributed in populations. This introduction will be followed by a review of the epidemiological studies that could be relevant to the outcome of your case.

The VLA Radio Telescope & Whistlers by Al Mattis, N5AFV

The Very Large Array (VLA) radio telescope located near Socorro, New Mexico, is well known for conducting research in the UHF range. One of the more widely publicized VLA projects was a scheme to listen for possible signals from other life forms throughout the galaxy. Scientists using the VLA had a real surprise recently when they stumbled across possible evidence of propagation paths for VLF whistlers.

Astronomers noticed irregularities in 320 mhz radio signals which were thought to have been caused by disturbances in the ionosphere. Further investigation indicated that the phenomenon was due to variation in the density of electrons in the plasmasphere, a part of the magnetosphere which extends thousands of miles above the earth. The disturbed areas, located 1,000 to 6,000 miles above the earth, consists of a ten percent variation in electron density. These irregularities, which are aligned with the earth's magnetic field and rotate along with the earth, remained undetected during several decades of satellite research. Low altitude satellites passed below these disturbances, and higher satellites were geosynchronous and moved along with the disturbed areas. It was only while tracking cosmic radio sources that the VLA was finally able to observe the electron irregularities.

GADGETEER'S ELECTRONIC SUPPLY

8880 WESTPARK DRIVE
HOUSTON, TX 77063
PH: (713) 978-6576
FAX: (713) 978-6576

MFJ
ARRL
ALUNCO
LARSEN
HUSTLER
LAKEVIEW
VAN GORDON

LOU MARINO
PRESIDENT

10% DISCOUNT TO HAMS
(On Selected Merchandise)

The most widely accepted explanation of this phenomenon is that the newly discovered electron anomalies are the "ducts" which carry VLF whistlers from one hemisphere to another. Whistlers are natural radio signals originating with lightning strokes. The whistlers travel from one hemisphere to another, and sometimes have multiple travel paths back and forth between hemispheres. Dispersion of frequencies during propagation causes the higher frequencies to arrive slightly faster than the lower frequencies, resulting in a descending tone in the receiver.

Whistlers were first heard in an Austrian telephone system in 1886. During World War I, troops on both sides of the conflict heard whistlers on amplifiers used to listen in on leaked signals from enemy telephone lines. Scientists, who have studied whistlers and other VLF natural radio signals for decades, documented the apparent propagation of whistlers between hemispheres, but it has taken UHF research with the VLA to shed further light on this interesting VLF phenomenon.

August Bulletin Deadline

Articles and other material destined to be printed in the August issue of the B-VARC *Bulletin* should be submitted by no later than July 28th. Please send the material to Vincent Orlando, WA5ETS; 8900 Bellaire Boulevard; Houston, TX 77036-4699 or FA (713) 774-6427.

1993 ATTENDANCE ROSTER
B-VARC GENERAL MEETINGS

		A P R	M A Y	J U N				
N5FSJ	Greg		✓		N05C	Elton Kytie	✓	✓
AA5JW	Carl Albrecht	✓		✓		Deney Laroche	✓	
KI5WV	John Ashmore	✓	✓	✓	N5PTN	Lee Lawson		✓
W4FBG	Richard Atkinson		✓			Michael Lay	✓	✓
	Tom Bailey		✓		KB5TIB	Patricia Layton	✓	✓
	Damon Barnett		✓		WD5DRB	Thomas Layton	✓	✓
KC5BAJ	Chris Blankenship			✓	N5VXU	Larry Levy	✓	✓
AA5ZK	Bob Brigham		✓		KC5ALR	David Litchford	✓	✓
KB5YPC	Bill Brown	✓	✓		N5AFV	Al Ludwig		✓
KB5KLY	Don Brown, Sr.			✓	N5WLY	Al Mattis	✓	✓
KB5YPB	Kelly Buckner		✓		KB5WYX	Robert Meyers		✓
WA2EJO	Robert Berger	✓			N5RBT	Rodney Miller		✓
KB5TBZ	James Cahanin		✓			Art Neumeyer		✓
	Jim Carter		✓		KD4IWB	Larry Nix		✓
KB5SWH	Don Cassling	✓			N5TBI	Pete Norris		✓
KB5PAJ	Marion Chambers			✓	WA5ETS	Max North	✓	
KI5SC	Michael Chambers			✓	KB5ZRV	Vincent Orlando	✓	✓
KB5DNT	Ralph Cheek	✓				Bruce Paige	✓	✓
N5OUZ	Lawrence Cox		✓		ND5F	Sebastian Paige	✓	
KB5USL	Craig Culver	✓	✓	✓	KB5LFU	Harold Parker	✓	✓
KC5AK	Don Daze			✓	AK5G	Roger Pokladnik	✓	✓
WA3PMT	Steven Deaktor	✓	✓	✓	KB5VTB	Randy Pollard	✓	✓
N5KXU	Bill Dessens	✓	✓	✓	KB5RZM	Lanny Poteet		✓
	Jason Dillon		✓		KG5KV	Blake Present	✓	
	Sherry Duff	✓		✓		Charles Prochaska	✓	✓
JBL	Stephen Dunkelberger			✓	N5YKR	Rajesh Rao		✓
84LZG	Glenn Edwards	✓	✓		N5NAS	Michael Ricco	✓	✓
W5LK	Ed Evans	✓	✓		KB5TMY	Vic Richard	✓	✓
N5XVZ	Rick Fitch	✓	✓	✓	KA5FDK	Jack Roberts	✓	✓
	Shannon Frazier		✓		K5CNU	Bernice Sellers		✓
N5TRQ	Susanna Friedman	✓			K5HFY	Tom Sellers		✓
NL7PQ	Ian George		✓	✓	WB5TKI	Claude Sessions	✓	✓
KG5IT	Cass Germany	✓			W9LCQ	Douglas Seyler		✓
KA5IJK	Mark Goodson			✓	N5PRC	Jay Seyler		✓
	Sandra Gottlieb			✓	KB5EXM	Steve Skelton		✓
WA5OEN	Steve Gottlieb	✓	✓	✓	KB5QYF	Irv Smith		✓
KB5LDY	Carl Hacker	✓		✓	KB5ZKO	Llew Smith		✓
N5VRR	Don Hadley	✓		✓	N5WMA	Don Sommer	✓	✓
	Reeda Hadley			✓	N5XWD	Oraida Starr		✓
N5VCX	Mike Hardwick	✓			KB5URT	Don Stevenson		✓
KB5WZI	Richard Harrison	✓	✓		N5TGM	Esther Stiver	✓	
KB5UE	Terry Harrison		✓		WB5VYR	Frank Stiver	✓	
	Barbara Haywood			✓	AB5LT	Charles Taylor	✓	✓
	Abraham Hernandez		✓		KB5UEI	George Taylor	✓	
	Paul Holcombe			✓	KB5UPZ	Tom Tiemann	✓	
N5JQH	Doug Holley	✓	✓		KA5LPH	Leon Toler	✓	
KE5SR	Marie Holley	✓			KD5JC	Jerry Tripp		✓
	John Holliman			✓	KB5WXE	Ed Truitt		✓
WA5TWL	Remi Hutin			✓	WB5IBT	David Waddell	✓	
W5/FE6CNB	George Jolly	✓			N5XWB	Don Wade		✓
ND5E	Chris Jungman		✓		N5ZUE	Donn Washburn	✓	✓
	Roxy Keller			✓	KF5ZL	Gerald Webb	✓	
KA0TEO	Bud King	✓	✓	✓	KA0TEN	Bob White		✓
N5UOG	Bob Kline			✓	WD5AJC	Betty Wilcox	✓	✓
5LI	Greyson Knapp			✓	J73TW	Dale Williams		✓
85VTE	Naveen Korivi			✓	N5YYP	Tony Williams		✓
	Claudia Kozinetz	✓			N5CPA	Larry Wilson	✓	
N5VCZ	Lou Kronberg	✓	✓		W5GLD	Sam Wilson	✓	✓
W5IHY	Dick Kruse			✓	KK5W	Frank Wood	✓	✓
N5OUT						Al Zerneno	✓	✓
						TOTAL:	60	58 75

1993 B-VARC PUBLIC SERVICE HONOR ROLL

Compiled by Claudia Kozinetz, N5VCZ

A. Houston Marathon
B. K-9 Fun Run

C. TX Special Olympics, Area 22
D. MS 150 Bike Tour

E. ALA Clean Air Bike Ride

Albrecht, Carl	AA5JW	D
Chambers, Marion	KB5PAJ	A
Chambers, Mike	KI5SC	A
Cheek, Ralph	KB5DNT	A,D,E
Conte, Frank	N5YKZ	A
Cox, Lawrence	N5OUZ	A,B
Creel, Fred	N5LYB	D
Culver, Craig	AB5OK	A
Dessens, Bill	N5KXU	A,B,C
Dillard, Ray	WA5F	A
Dunkelberger, Steve	N5JBL	A,B
Edwards, Glenn	WB4LZG	A,C,D
Edwards, Melanie	KB5KLH	C,D
Gordon, Irene	N5AYX	A
Hacker, Carl	KB5LDY	A,B,E
Hagerman, Dick	WB5SRN	A
Hardwick, Mike	N5VCX	A,B,D,E
Harris, Ron	N5MKO	D
Holley, Doug	KE5SR	C
Hughes, Kelley	N5ULZ	A
James, Mark	N5YKV	A
Kemp, Bill	KG5CB	D
King, Bud	N5UOG	A,B,C,D,E
Kozinetz, Claudia	N5VCZ	A,B,C,E
Lay, Michael	N5PTN	C,D
Layton, Thomas	KB5TIB	C
Levy, Larry	WD5DRB	A

Mattis, Allen	N5AFV	A
McCasland, Excemcia	N5UGG	C
McCasland, Mike	N7ZBV	E
McCasland, Scott	KG6JCM	C,E
Meyers, Robert	N5WLY	A
Morrison, Henry	W5RIY	A,C,E
North, Max	N5TBI	A,D,E
Orlando, Vincent	WA5ETS	A
Parker, Harold	ND5F	A
Pokladnik, Roger	KB5LFU	D
Pollard, Randy	AK5G	C,E
Roberts, Jack	KB5TMY	A,C,D
Rogers, Dennis	N5VRP	C
Smith, Irv	KB5EXM	A,D
Starr, Oraidia	N5WMA	A,C,D,E
Stiver, Esther	KB5URT	A,B,C,D,E
Stiver, Frank	N5TGM	A,B,C,D,E
Tiemann, Thomas	KB5UEI	C
Toler, Leon	KB5UPZ	C
Turner, David	WB5TCW	A,E
Wade, Don	WB5IBT	A
Warden, Mike	WB3HZZ	A
Washburn, Donn	N5XWB	A,B
Webb, Gerald	N5ZUE	B,D
Wilson, Bill	KA5GHI	A,D,E
Winford, Clem	WB5SHU	A

Please report corrections or additions to N5VCZ

(713) 567-1064

HAMMER COMMUNICATIONS

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

RADIO CONSTRUCTION, REPAIR, INSTALLATION
BROADCAST & TOWER SERVICES

EPO

ELECTRONIC PARTS OUTLET INC.

2815 FONDREN, HOUSTON, TEXAS 77063 • (713) 784-0140
FAX (713) 784-0740

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

Mon-Fri 9-6, Saturday 9-5

An Invitation
by Quinn Farabee, N5OWQ

Dear Fellow Amateur:

From time to time we have formal radio traffic addressed to individuals in your vicinity, and we are in need of additional operators to receive and deliver the traffic by phone in your toll-free calling area. We would like to issue a very cordial invitation to you to become active in traffic handling. We hope the information provided below will stimulate your interest and broaden your knowledge of the subject. If after reviewing the information sources provided you still have questions, let us know, and we will try to answer them.

SOURCES OF INFORMATION

The *ARRL Net Directory* contains a comprehensive listing of nets including information on time, frequency, area of coverage and function. In the back of the book, information is given on how to construct a formal radiogram. A sample radiogram is used to give "How to" information on traffic handling.

3 *ARRL Public Service Communication Manual* contains information on the National Traffic System and "How to" traffic handling instructions as well as material on RACES and ARES along with other valuable information.

These two books may be obtained from the ARRL headquarters or from some ham stores.

POPULAR TRAFFIC NETS (PARTIAL LISTING)

Daytime Voice

Daytime Texas Traffic Net[†] - 7273 Khz ±;
0830 CT Mon-Sat; 1300 CT Sunday only

7290 Traffic Net - 7290 Khz ±; 1000 to 1200
CT Mon-Sat; 1300 to 1400 CT Mon-Fri

Daytime Region 5[†] (Cycle 1) - 7280 Khz ±;
1030 CT Mon-Sat; 1345 CT Sunday only

Daytime Region 5[†] (Cycle 2) - 7280 Khz ±;
1530 CT Mon-Sun

Evening Voice

Central Texas Traffic Net[†] (Cycle 1) - Canyon
Lake Repeater 147.140 Mhz +; 1830 CT Mon-Sun

Central Texas Traffic Net[†] (Cycle 2) - Wimberly
Repeater 147.100 Mhz +; 1930 CT Mon-Sun

DFW Traffic Net[†] - Dallas Repeater 146.880
Mhz -; 1830 CT Mon-Sun

Texas Traffic Net[†] - 3873 Khz ±; 1830-1930
CT Mon-Sun

Panhandle Traffic and Emergency Net - 3933
Khz ±; 0000 UTC Mon-Sun

Central Gulf Coast Hurricane Net - 3935 Khz
±; 0100 UTC Mon-Sun

75 Meter Interstate Single Sideband Traffic Net
- 3985 Khz ±; 0100 UTC Mon-Sun

Southwest Traffic Net - 3935 Khz ±; 2130-
2230 CT Mon-Sun

Evening CW

Texas CW Net[†] - 3643 Khz ±; 1900 CT and
2200 CT Mon-Sun

Texas Slow Net[†] (CW Net for beginners) - 3719
Khz ±; 0200 UTC Mon-Sun

Region 5[†] (Cycle 3) - 3650 Khz ± Fall/Winter,
7052 Khz ± Spring/Summer; 1930 CT Mon-Sun

Region 5[†] (Cycle 4) - 3650 Khz ± Fall/Winter,
7052 Khz ± Spring/Summer; 2130 CT Mon-Sun

[†] indicates ARRL-affiliation

There are many amateurs including myself who enjoy traffic handling. We feel that we provide a valuable and much appreciated service by helping to bring friends and families closer together through the messages that we carry. Each of us have formed quality and lasting friendships with our fellow traffic handlers. We feel that the experience that we gained in handling personal messages prepares us to be more efficient in handling emergency type traffic during times of disaster. We hope that you will develop an interest in this aspect of ham radio.

It would be appreciated if you will share this letter with other hams in your vicinity perhaps through your club. We will look forward to hearing your call sign on one of the nets.

Very best regards,

Quinn Farabee, N5OWQ
Manager, 7290 Traffic Net
209 Broadmoor
Fredericksburg, Texas 78624
(210) 997-7492

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!

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



8058 Boone Road
Houston, Texas 77072
1 Blk W. of Wilcrest

BRUCE PAIGE
KB5ZRV

Voice • 713-933-8385
FAX • 713-933-3544

Car Stereos • Car Alarms • Car Phones
Custom Installation Services

River Oaks Car Stereo

Eddie Runner - N5PNX
(713) 661-9981

5532 Wesleyan
(behind Randall)
Houston, TX 77005



Kronberg's
Flags and
Flagpoles

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

Lou Kronberg
Chairman of the Board
WSIH

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.)

RUN YOUR BUSINESS CARD AD HERE!

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



STATE FARM
INSURANCE COMPANIES

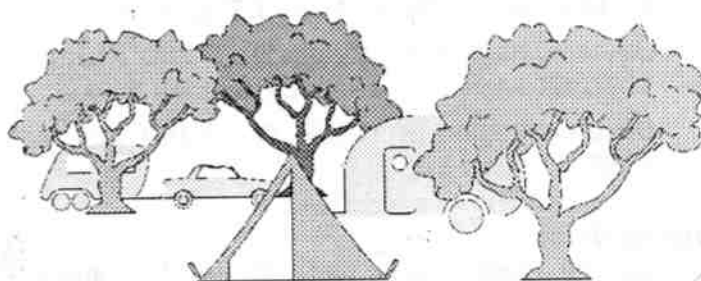
HOME OFFICES: BLOOMINGTON, ILLINOIS

Off.: (713) 498-4366
Res.: (713) 879-9511
Fax: 498-2292

BOB KUNESH, ChFC
Agent

12135-B Bissonnet
Houston, TX 77099

KJ5BG
x-WA5NRM



Annual B-VARC Picnic
July 17th!