



# 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: 5

May 1993

ADDRESS CORRECTION REQUESTED

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



## B-VARC MEETING SCHEDULE

Thurs, May 13 General Membership Meeting  
7:30 pm Sugar Land Community Center  
Program: *Personal Computers*  
by Vincent Orlando, WA5ETS

Thurs, June 3 Board Meeting  
7:30 pm Sugar Land Community Center

Allen Mattis N5AFV  
5314 Wigton  
Houston, TX 77096

## Notes from the President . . .

by Betty Wicox, KAØTEN

May 8th brings us to the B-VARC fishing trip on the Colorado River/Matagorda Bay right out of Bay City, Texas. All those checking in to the Monday night net at 9:00 p.m. know that we have been extended the use of a private home on the river. This is really a treat for those family members who don't like to fish, get hot and sweaty, or fight bugs. The house with a/c and TV will keep everyone in a good mood.

Large trees provide shade for those bringing tents or pop-ups. The ground-level basement provides a bunk house style sleeping area for gentlemen with complete restroom facilities.

Upstairs in the main section of the house are several bedrooms. The kitchen is available for any cooking that needs to be done; microwave, too. It is recommended that ice chests be used due to the refrigerator's size.

Outside there is a lighted pier for all-night fishing. It comes equipped with sink and counter top with running water for cleaning fish. The river is clearing nicely and catfish are biting. What more could you ask?

And this is all that I ask — at the owner's request. Please, call and give me a tentative head count. By the time you read this, time will be very short. Directions and talk-in frequency will be available upon request. My number is good in the roster.

## The World of 10-10 International

by Al Mattis, N5AFV

Ten-Ten activity has dropped off as it usually does for the summer months. The S.H.O.T. chapter continues to wait for the results of the 1993 Winter QSO Party. The wait seems to be about as bad as that of a new ham waiting for his or her first license. Will the S.H.O.T. chapter continue its winning streak? We'll let you know as soon as we find out.

Ten-Ten paper chasers are still active on 28.345 mhz and, to a lesser extent, on 28.825 mhz. Ten-Ten chapters with specials for paper chasers this month include Battle Road (MA), Branding Iron (TX), 51st State (MI) and Steel City (IL). Plans are being

## B-VARC RAG CHEW CHECK-INS

3.960 MHz 8:00 pm Wednesdays

Compiled by Melvin Thatcher, KB5ION

March 31, 1993

KE5SR NCS, KB5ION, W5IHY, KB5TIB, N5OAC, KB5USL, N5VRR, N5CPA, WA5OEN, N5AFV, WASTWL, N5WMB, WD5DRB, KG5KV, W5GHK, KB5LFU, N5VDY

April 14, 1993

KB5USL NCS, KE5SR, W5EFB, N5OAC, W5IHY, N5AFV, KG5KV, N5KXU, KB5LFU, WD5DRB, N5WFP, K15SC, KB5TIB, KB5ION, N5UOG, KB5DNT, K15CE

April 21, 1993

KB5USL NCS, KB5ION, K15SC, WB5SRN, N5OAC, N5CPA, N5KXU, KB5LFU, N5AFV, WD5DRB, W5EFB, KB5TIB, N5WFP, WA5OEN, WASTWL, KG5KV

April 28, 1993

W5IHY NCS, KB5ION, WD5DRB, KB5USL, KE5SR, K15SC, N5AFV, WA5OEN, N5CPA, N5ECP, KB5TIB, N5OAC, KG5KV, N5WMB, KB5LFU, K5KV

made for a Ten-Ten banquet at the upcoming Dayton Hamvention, and many paper chasers are expected to attend this giant convention.

Summer propagation has returned to ten meters. Conditions on the band changed markedly during the last week in March. The band is seldom open now to one-hop F-layer domestic skip; however, limited DX openings still occur. Latin American stations can be heard on a fairly regular basis. In addition, Craig Culver, KB5USL, reports that he has worked Australia twice in recent weeks. Shorter distance E-layer openings characterize summer propagation, and we can expect openings to the southeastern states, central states, and southwestern states. Many of these openings occur in the evening after dark, so listen on ten meters occasionally, and you may be rewarded with one of these surprise 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



## Newlyweds Start Life in a Bed of Roses

by Vincent Orlando, WA5ETS

While every aspect of the lives of married couples doesn't always prove to be a bed of roses, Steve Gottlieb, WA5OEN, and Sandra Owen did their best to start their married life if not as a bed of roses then at least in one. Steve and Sandra exchanged their marriage vows on Saturday, April 17th, in the Houston Rose Garden right off Hermann Park. It was a beautiful affair with equally beautiful and cool spring weather and lots of fragrant and colorful roses all around. It was truly a historical moment.

This wedding might have made history in yet other ways—one of them being amateur radio history. Almost everyone involved in the wedding are hams (some in more ways than others, um...). All the wedding music was played on the guitar by the Dessens: Bill, N5KXU, and Mark, KG5JT. (Like father, like son.) Probably the highlight of the musical selections was an original rendition of the *Lord's Prayer* set to guitar. The best man was Larry Levy, WD5DRB, and the two officiating ministers were Dick Kruse, N5OUT, and Vincent Orlando, WA5ETS. Of course, the groom himself, Steve, is also a ham. It is my understanding that his lovely bride, Sandra, is working on getting her ticket soon.

After Steve and his new XYL were presented to the gathering as Mr. and Mrs. Gottlieb and after they were invited to exchange 88's with each other, they processed down the aisle of pink roses through an arch of extended HT's held heavenward by a group of their ham friends who were in attendance. If anyone has a photograph of this grand event especially the promenade through the allee of antennas, we should send it to *QST* for publication.

We all congratulate you both, Steve and Sandra, on the occasion of your new life together. Thanks for sharing your love and your commitment and your selves with us in B-VARC. Good luck and God bless!

## Results of the April Amateur Exams

by Harold Parker, ND5F

B-VARC again sponsored and administered the ARRL's Amateur Radio Examinations that were held on Tuesday evening, April 13, 1993, at Strake Jesuit College Preparatory in Houston.

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### The V.E. Team

Craig Culver, KB5USL

Glenn Lewis, KI5CE

Harold Parker, ND5F

### Assistants

Carl Albrecht, AA5JW

Cass Germany, KG5IT

Irene Gordon, N5AYX

Don Schexnailder, AB5IV

Tony Stevens, N5LSQ

A total of thirty-one exams were administered during the evening to seventeen applicants. Seven unlicensed candidates received their new licenses: two Novices, four "no-code" technicians and one General. Six others upgraded with a total of twenty-five elements passed. The overall "pass rate" for the evening was eighty-one percent. Stephen Neubauer, one of the new Novices, is nine years old!

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

Arthur Alvarez, N5KTN — Advanced  
Christopher Blankenship — Technician  
Norman Butler, KB5NXV — Element 4A  
Joseph Clements — Technician  
Robert Deere — Element 2  
Willie Doty, Jr. — Technician  
Charles Hall — Novice  
Kevin Hinton, KB5VHE — Element 3B  
Madison Jones, KB5ZMH — General  
Glyn Miller, Sr., Pending — Technician  
Stephen Neubauer — Novice  
Douglas Poteet, KB5VTB — Technician  
Ronald Smith, KB5VSX — General  
Eric St. Cyr — General  
Robert Supina — Technician  
Jim Wilkerson, N5WMB — Advanced

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

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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.

73's ... ND5F

### **B-VARC Board of Directors Meeting Minutes, April 1, 1993**

by Bud King, N5UOG

A quorum of the B-VARC Board of Directors met at the Sugar Land Community Center on April 1, 1993. This was the fourth meeting of the Board of Directors for the 1993 calendar year.

The minutes of the March 4th meeting were submitted by Bud King, N5UOG, and approved with corrections.

The club treasurer, Sam Wilson, N5CPA, reported a balance of \$4,291.51 in the treasury as of March 31, 1993. The treasurer's report was approved unanimously.

The club president confirmed that the May 13th meeting would be presented by Vincent Orlando, WA5ETS. His subject will be "PC Computers". On June 10, Al Zermeno, KK5W, will present the program "Biological Dangers of ELF Electro Magnetic Radiation". Sharing the program with Al will be Carl Hacker, KB5LDY, with the "Legal Aspects of Such Transmissions".

Vice-President Doug Holley, KE5SR, notified the Board that the B-VARC "Camp Out" would be held on May 1st. He has been able to secure 2 trailer hook-ups and 2 camp sites. Doug announced that June 26-27 are the dates set aside for Field Day. The annual B-VARC picnic will be held on September

25, 1993. Doug reported that, with regret, he was discontinuing the code practice sessions immediately because of lack of participation.

Vincent Orlando, WA5ETS, reported that our membership number was now up to 212. The Board unanimously approved a motion to have Vincent purchase an overhead projector and a suitable screen for the club. These items are to be available for use by the people presenting programs at the club's meetings.

Mel Thatcher, KB5ION, stated that he was well pleased with the number of regular check-ins on the B-VARC Rag Chew Net.

Claudia Kozinetz, N5VCZ, notified the Board that she will present a program to the Houston Striders for the purpose of acquainting their personnel with B-VARC's communication procedures and our personnel. Claudia reported that 10 B-VARC members were among the volunteers at the Texas Special Olympics, Area 22, Spring Games. This event was sanctioned by the Board and was chaired by Esther Stiver, KB5URT.

Michael Ricco, N5YKR, stated that he could use additional input from the B-VARC membership concerning the format changes in the Monday night B-VARC net.

Glenn Edwards, WB4LZG, and Carl Hacker, KB5LDY, stated they were continuing to recruit volunteers for the upcoming events they chair.

The Board gave approval to ear-mark \$300.00 for Field Day expenses.

E. J. Hadash, N5WAJ and Communications Coordinator for the local chapter of the American Red Cross, requested assistance in formulating a plan of action for the coordination of the Red Cross organization and the HAMS in their region, in case of an emergency.

The Board meeting was adjourned at 9:20 p.m.

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## **Product Review: Mosley TA-53-M Beam** by Doug Holley, KE5SR

I had the chance to assemble and install two TA-35-M beam antennas within a week apart. I purchased one from Mosley in November, 1992, while Frank, W5GLD, had his still in the shipping boxes.

For the last twelve years I had used a Cushcraft A4 beam on a forty foot tower. The A4 beam had never been down or even worked on in all those years. It had served me well, but after taking it down I could see severe damage to the aluminum parts.

Frank put up a sixty foot Rohn 45 tower while I put up a new ninety foot Rohn tower. The new Mosley TA-53-M beams were easy to assemble. The element pieces and traps were color coded and pre-drilled leaving only a few measurements to be done. The boom was fourteen feet long; there were four elements with the longest one being twenty-six feet, five inches. It is solid and well built using a much heavier gauge aluminum for the boom and elements than my old Cushcraft used. To assemble the beam requires a very large flat area in order to align the whole antenna.

Mosley claims the front-to-back db gain to be sixteen to one on ten meters, thirteen to one on fifteen meters and ten to one on twenty meters.

A weak design point of the beam was the phasing network where the coax was attached to the antenna. Two very thin  $\frac{3}{8}$  inch aluminum b-bars were used. The coax connections could not be made to snug up tightly. This is a very poor design by Mosley. On both Frank's beam and on mine we used copper shims to try to tighten the connection better.

Mosley warned that other antennas or steel guy cables being used near the antenna would affect the performance. Both Frank and I paid extra to buy Phillystran guy cables to avoid the problem.

Both antennas were assembled, and we lifted mine up first. With help from four other friends, we had my beam on the mast and completed in just over an hour. There was no wind blowing so the lift and assembly went very well. I have to give credit to my friends for their help or things would have never gone so smoothly.

We lifted Frank's up later that week. The wind was blowing harder so the lift and the assembly did not go smoothly. After two tries and almost dropping

the beam, we secured it to the mast. This attempt took almost four hours. I will not try again to lift a beam with a wind like we had that day!

When I checked my beam on all five bands, I found that the SWR was somewhat higher than the data submitted the beam instructions indicated. Most were 2.0 to 1 so it can be used without a tuner in most cases, but a tuner is required on a couple bands.

Gain/loss front to back is great. Much more than my old Cushcraft. You can turn the beam after hearing a signal and really notice a marked difference. I am happy with the quality, assembly, and performance of the beam. I am unhappy with the phasing coax connections. I hope in the future that Mosley will redesign this part of their beam. The five-band beam sells for \$527.00 plus shipping. I will give it a 9.5 on a rating from one to ten.

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### **Public Service Update** by Claudia Kozinetz, N5VCZ

We are on a roll this year with our public service events. Many B-VARC members have participated in providing communications for a marathon, a run, a special olympic event, or a bike ride. After the May 2nd ALA bike ride, we do not have anything on our public service event calendar until late September. If you know of an upcoming event for which you think the members of B-VARC could provide communications, please call me. A public service event refers to public activities such as marathons, bike-a-thons, fairs, mall displays, boat races, parades, i.e., all events of a non-emergency nature.

The FCC encourages public service events within Amateur Radio. A fundamental principle found in the first FCC rule in Part 97 is: "Recognition and enhancement of the value of the amateur service to the public as a voluntary, noncommercial communications service." The question, "Is it legal?", has been posed in the past regarding the involvement of HAMS with public service events. Therefore, we must keep in mind that not ALL activities related to public events are allowed. For example, using ham radio to coordinate ticket sales at a public festival is not allowed since this is a business function.



As a reminder for the next time you volunteer your time to provide communications for a public service event, keep the following principles in mind.

- Do not apply first aid unless you are trained and certified to do so. Call for medical assistance.
- Do not transport an ill or injured person in a private vehicle.
- Do not handle routine business or commercial communications.

In other words, know the rules for operating as a licensed amateur radio operator and use common sense.

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### June *Bulletin* Deadline

Articles and other material destined to be printed in the June issue of the B-VARC *Bulletin* should be submitted by no later than May 27th. Please send the material to Vincent Orlando, WA5ETS; 8900 Bellaire Boulevard; Houston, TX 77036-4699 or FAX (713) 774-6427.

## The Ozone Layer and the Longwave Band by Al Mattis, N5AFV

With the coming of the space era, longwave enthusiasts found an interesting effect on ELF. During the 1970's, it was found that rocket launches and re-entries cause a distinctive signature of disturbance in the ionosphere. William Van Bise of the Environmental Signal Laboratory in Reno, Nevada, was able to measure both acoustic and electromagnetic transients on a frequency of 5.6 hz that correlated with rockets leaving or entering the atmosphere. These transients were followed by a "ringing" at the first harmonic of about 11 hz. Scientists observed these signals through the 1970's and into the 80's.

During the last few years, however, a change has been observed in these signals. The signals have shifted upward in frequency to 6.5 hz and 13 hz. Van Bise worries that this shift may be related to the loss of ozone from the ozone layer, and based on the frequency shift, he calculates that there may have been a sixteen percent loss in ozone at the latitude of rocket launch.

In a recent issue of *The Lowdown*, newsletter of the Longwave Club of America, Vince Migliore discusses the work of Van Bise. Migliore makes the comment that "there is something strange happening in the ionosphere that is getting worse with time." Migliore, who resides in California, is editor of *Geo-Monitor*, a monthly newsletter related to earthquake prediction. The phenomenon observed by Van Bise is interesting, but scientists do not know what has caused the frequency shift. It is only a theory that the frequency shift is related to the loss of ozone, and there is not enough scientific data to determine whether things are "getting worse", or better, or staying the same. Scientists are continuing their research on the longwave band.



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**1993 ATTENDANCE ROSTER**  
**B-VARC GENERAL MEETINGS**

		F E B	M A R	A P R				
KF5VZ	Brenson Abbott		✓		N5PTN	Michael Lay	✓	✓
N5TST	William Abbott		✓			Patricia Layton	✓	✓
AA5JW	Carl Albrecht		✓	✓	KB5TIB	Thomas Layton	✓	✓
KI5WV	John Ashmore	✓		✓	KB5ESE	Brian LeVack	✓	
N5WAE	Charles Beall		✓		WD5DRB	Larry Levy	✓	✓
	Craig Beall		✓		N5VXU	David Litchford	✓	✓
AA5ZK	Bob Brigham	✓	✓		N5EM	Ed Manuel		✓
KB5YPC	Bill Brown		✓	✓	N5AFV	Al Mattis	✓	✓
KB5KLY	Don Brown, Sr.	✓	✓		N5UGG	Excemcia McCasland		✓
	Kelly Buckner	✓			N7ZBV	Mike McCasland		✓
WA2EJO	Robert Berger			✓	N5WLY	Robert Meyers	✓	
KB5TBZ	James Cahanin	✓	✓		KB5WYX	Rodney Miller	✓	
KB5SWH	Don Cassling			✓	N5RBT	Art Neumeyer	✓	✓
KB5DNT	Ralph Cheek			✓	N5TBI	Max North		✓
KI5ZD	George Clark	✓			WA5ETS	Vincent Orlando	✓	✓
N5EVH	John Cooley		✓			Bruce Paige	✓	✓
N5DZP	Frank Croley		✓			Sebastian Paige		✓
KB5USL	Craig Culver	✓	✓	✓	ND5F	Harold Parker	✓	✓
WA3PMT	Steven Deaktor			✓	KB5LFU	Roger Pokladnik	✓	✓
N5KXU	Bill Dessens	✓		✓	AK5G	Randy Pollard	✓	✓
WA5F	Ray Dillard	✓	✓		KB5VTB	Lanny Poteet	✓	✓
	Sherry Duff			✓	N5MBM	Bill Potter		✓
N5JBL	Stephen Dunkelberger		✓		KG5KV	Charles Prochaska	✓	✓
K2BIK	Gary Edwards		✓		N5YKR	Michael Ricco	✓	✓
WB4LZG	Glenn Edwards	✓		✓	N5NAS	Vic Richard	✓	✓
	John English	✓			KB5USY	Eric Ritzie	✓	✓
W5LK	Ed Evans	✓	✓	✓	KB5TMY	<del>Jack Roberts</del>	✓	✓
N5XVZ	Rick Fitch		✓	✓	N5VRP	Dennis Rogers		✓
N5TRQ	Susanna Friedman			✓	N5XGT	Gene Russell		✓
KG5IT	Cass Germany			✓	N5ECP	Jeffery Salmons		✓
WA5OEN	Steve Gottlieb	✓	✓	✓	AA5IV	Don Schexnailder	✓	
KB5USV	Ronan Gregg	✓			KB5VSY	Frank Secor	✓	✓
KB5LDY	Carl Hacker	✓	✓	✓	K5CNU	Tom Sellers	✓	
N5VRR	Don Hadley	✓		✓	K5HFY	Claude Sessions	✓	✓
N5VCX	Mike Hardwick	✓	✓	✓	WA4SBS	Dott Smith	✓	✓
KB5WZI	Richard Harrison	✓	✓	✓	KB5EXM	Irv Smith	✓	✓
KB5UEC	Bob Helton	✓				Liz Smith	✓	
N5JQH	Paul Holcombe		✓		KB5ZKO	Don Somme		✓
KE5SR	Doug Holley	✓	✓	✓	N5WMA	Oraida Starr	✓	✓
	Marie Holley			✓	KB5URT	Esther Stiver		✓
N5ULZ	Kelley Hughes		✓		N5TGM	Frank Stiver		✓
N5RZN	Emmett Jackson		✓		N5RKM	Ted Sumerlin	✓	
W5EFB	Jim Jeffries	✓			WB5VYR	Charles Taylor		✓
ND5E	George Jolly			✓	AB5LT	George Taylor		✓
	Dwayne Jones		✓		KB5ION	Melvin Thatcher	✓	✓
KG5CB	Bill Kemp		✓		KB5UEI	Tom Tiemann	✓	✓
N5XGW	Charles Keng	✓	✓			Raymond Tiffany	✓	✓
N5UOG	Bud King	✓	✓	✓	KB5UPZ	Leon Toler	✓	✓
KG5PR	Bob Kline	✓				Cliff Tubbs		✓
N5VCZ	Claudia Kozinetz	✓	✓	✓	KB5WXE	David Waddell		✓
W5IHY	Lou Kronberg	✓		✓	N5XWB	Donn Washburn	✓	✓
N5OUT	Dick Kruse	✓	✓		N5ZUE	Gerald Webb	✓	✓
KB5VTE	Greyson Kunpp		✓		KAØTEN	Betty Wilcox	✓	✓
NØ5C	Eton Kytte		✓	✓	N5YYP	Larry Wilson	✓	✓
	Deney Laroche			✓	N5CPA	Sam Wilson	✓	✓
					KK5W	Al Zermeno	✓	✓
						TOTAL:	67	68 60

# 1993 B-VARC PUBLIC SERVICE HONOR ROLL

Compiled by Claudia Kozinetz, N5VCZ

## A. Houston Marathon

## B. K-9 Fun Run

## C. Texas Special Olympics, Area 22

Chambers, Marion	KB5PAJ	A
Chambers, Mike	KI5SC	A
Cheek, Ralph	KB5DNT	A
Conte, Frank	N5YKZ	A
Cox, Lawrence	N5OUZ	A,B
Culver, Craig	KB5USL	A
Dessens, Bill	N5KXU	A,B,C
Dillard, Ray	WA5F	A
Dunkelberger, Steve	N5JBL	A,B
Edwards, Glenn	WB4LZG	A,C
Edwards, Melanie	KB5KLH	C
Gordon, Irene	N5AYX	A
Hacker, Carl	KB5LDY	A,B
Hagerman, Dick	WB5SRN	A
Hardwick, Mike	N5VCX	A,B
Holley, Doug	KE5SR	C
Hughes, Kelley	N5ULZ	A
James, Mark	N5YKV	A
King, Bud	N5UOG	A,B,C
Kozinetz, Claudia	N5VCZ	A,B,C
Lay, Michael	N5PTN	C
Layton, Thomas	KB5TIB	C
Levy, Larry	WD5DRB	A
Mattis, Allen	N5AFV	A

McCasland, Excemcia	N5UGG	C
McCasland, Scott	KG6JCM	C
Meyers, Robert	N5WLY	A
Morrison, Henry	W5RIY	A,C
North, Max	N5TBI	A
Orlando, Vincent	WA5ETS	A
Parker, Harold	ND5F	A
Pollard, Randy	AK5G	C
Roberts, Jack	KB5TMV	A,C
Rogers, Dennis	N5VRP	C
Smith, Irv	KB5EXM	A
Starr, Oraida	N5WMA	A,C
Stiver, Esther	KB5URT	A,B,C
Stiver, Frank	N5TGM	A,B,C
Tiemann, Thomas	KB5UEI	C
Toler, Leon	KB5UPZ	C
Turner, David	WB5TCW	A
Wade, Don	WB5IBT	A
Warden, Mike	WB3HZP	A
Washburn, Donn	N5XWB	A,B
Webb, Gerald	N5ZUE	B
Wilson, Bill	KA5GHI	A
Winford, Clem	WB5SHU	A

Please report corrections or additions to N5VCZ

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



# May 1993

## B-VARC Calendar of Events

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