



BRAZOS VALLEY AMATEUR RADIO CLUB



AMATEUR RADIO FOR SOUTHWEST HOUSTON AND FORT BEND COUNTY

MAY 2007

VOLUME 31 ISSUE 5

BVARC MAY GENERAL MEMBERSHIP MEETING

7:30 PM, Thursday, May 10.
Sugar Land Community Center

Mike Hardwick, Texas Senate bill SB154 - Will it really affect amateur radio?
Allen Brier, Allocation by bandwidth -Will it work?
Plus - DX Videos and cartoons

MS-150 – A record breaking year.

See article inside.



Command Central



On the road

APRIL GENERAL MEMBERSHIP MEETING

Allen Brier, N5XZ, showed a video of the South Sandwich Islands DXpedition



Robert, KD5YVQ, Allen, N5XZ and Bill Stone, WS5H

President's Corner

The 2007 Greater Houston Hamfest is behind us but the planning for the 2008 is moving forward. Application has been made to the ARRL for the GHH to again be the South Texas Section Convention. Hopefully the approval will be forthcoming in a week or two. The GHH committee has already started on notifications of vendors and the fair grounds facility has been reserved. Everyone on the GHH committee is working hard to make the 2008 hamfest, the biggest yet!

I called Steve Lee at the FCC and he agreed to come out and do a presentation on FCC enforcement from the amateur radio point of view for the June meeting. For the old timers in the club you will remember Steve came out about 10 years ago and did a program on tracking down interference. He brought out a few of his "toys" which everyone enjoyed looking at as well as wishing for! I know we will enjoy Steve's program.

Field Day is just around the corner and we need to start working with the captains. We will have a small presentation at the June general meeting to do some wrap up planning for field day. If you are interested in helping out for field day, contact Carl, KA5MEI or Robert, KD5YVQ. Everyone has a great time at field day and the club needs your help to make it a success.

Don't forget the Ice Cream social in August. This is one of the more popular meetings of the club and we always have a great turnout. This year I would like to make a big general get to know your neighbor social gathering. So let's invite other hams from other clubs so we can get to know everyone in the area. Amateur radio is a hobby of meeting people both on the air as well as in person.

See everyone at the next meeting.

73, N5VCX

Houston Amateur Radio Supply

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<http://texasparadise.com/hars/> George DiLetto KD0RW

Public Service events

The 'Faith West - Pedaling the Prairie

8:00 am Saturday, May 19, 2007

Bicycle ride fund raiser in the Katy Fulshear areas. Twelve operators are needed for communications for this event. Operators need at least a VHF mobile radio to volunteer. Talk-in and event will be on the 145.19 repeater with a 123.0 tone. Operators will meet at 6:00 am at the Jack-in-the-Box at Katy Mills Mall just south of Interstate 10 for maps, final instructions and tee shirts. Contact Doug Woodruff, KC5VYZ, (281) 232-8452 or kc5vyz@arrl.net

Monday Night NET Updates

Don't forget the Monday Night Public Service Net starts at **8 pm**, 145.47 (PL -123.0) The order of check-ins start with mobile units first then fixed stations. If you have something for the net, make sure you let Net Control know about it when you check in. We are looking for Net Control Operators. Contact any officer of BVARC if you are interested.

An updated list of Control-Ops will be included in next month's newsletter.

MORE PICS FROM THE MS-150



“TAINT THIS QUAIN’T”

THE END!!! > >



BP MS150 Bike Tour – A Success for Everyone!

It took a year’s worth of planning as it does every year but it paid off. The 2007 BP MS150 Bike was a huge success both for the National Multiple Sclerosis Society and amateur radio. The NMSS will raise from this ride nearly 12 million dollars which will be used to help find a cure for multiple sclerosis and to support those that are suffering from the disease.

The bike ride also provides a place for nearly 100 amateur operators to train and prepare for emergencies and disasters. Since the beginning of the ride 23 years ago, amateur radio has been the primary communication source for the event. As in the past, amateur radio proved itself again this year by being one of the most valuable tools on the event.

Communications was coordinated from a Houston Command post with local Net controls in Bellville, La Grange and Austin . Amateur operators were stationed at all 16 break points as well as lunch areas and the over night area in La Grange . To provide support for the event vehicles, operators were placed in 17 medical vehicles, 10 SAG vehicles, as well as various supply trucks and event staff vehicles. All medical vehicles were tracked at the Houston Command post as well as La Grange and Austin using APRS. In the few days before the ride, several extra digipeaters were brought on line to provide coverage along the entire route.

To insure that all communications were monitored by the Command post and all Net controls, both Echo Link and IRLP were used. By utilizing the Internet, the coordination for the event was basically handled by one location.

I want to thank everyone’s hard work on the event and their dedication. I personally want to thank Steve Agee, N5ZUA who spent several late nights/early mornings making sure the IRLP links were up and operating when needed. The event needs everyone’s help to make it work and this year the dedication was clearly visible.

Mike Hardwick, N5VCX
Communications Coordinator
2007 BP MS150
Houston to Austin Bike Tour

Brazos Valley Amateur Radio Club

Minutes of April 5, 2007 meeting; Board of Directors

Mike Hardwick called the monthly Board of Directors meeting for The Brazos Valley Amateur Radio Club to order at 7:35 PM on April 5th, 2006 at the Denny's Restaurant, 8199 SW Freeway; Houston, TX. Attending were: Mike Hardwick, N5VCX (Pres.); Allen Brier, N5XZ (V P); Sid Sherwood, N5ZXD (Treas./Cor. Sec.); Peter Sauermilch, KD5QPX (Rec. Sec.); Robert Polinski, KD5YVQ (At-Large Dir.); Rick Hiller, W5RH (At-Large Dir.); Bill Stone, KS5H (At-Large Dir.); Cameron Mitchell, K5CAM; John Chauvin, K5IZO; Charles Frost, K5LBU; Randy Pollard, AK5G; and Ross Lawler W5HFF

- 1) Minutes for February and March 2007 meetings were approved as published in the newsletters.
- 2) Treasurer's Report was presented to the Board through an email from Sherwood to Hardwick.
 - a) Hamfest gross income was \$4,765.01
 - b) Hamfest cost was \$3,088.72
 - c) Bank balance is \$ 9,919.65
 - d) CD value is \$ 3,291.25
 - e) Report approved by board.
- 3) Old Business:
Club Call: Bill Stone proposed that a net control operator for a club net can use the club call for the net. Board approved after discussion. Additionally the board approved the motion to adopt previously discussed rules governing a club member using one of the club calls for up to 15 days. The completed application is sent to Sid Sherwood. The application can be found on the BVARC website under the "General" tab > "Club Call Usage" link.
- 4) New business:
 - a) Club Patches: Bill Stone is looking into an inexpensive source for new club patches.
 - b) Alternative General Meeting Location: The Sugar Land Community Center has become difficult for BVARC to dependably schedule. Charles Frost thinks that his school might be available in the near future.
 - c) 2008 Hamfest:
 - i) Date: March 1st, 2008
 - ii) ARRL has been petitioned for South Texas Section Convention.
 - iii) The www.houstonhamfest.com website will be modified in short order to announce the next hamfest.
 - iv) Allen Brier will be the vendor contact person.
 - v) Vendor letters will be sent in short order.
- 5) Schedule:
 - a) April: Allen Brier has a multi-media presentation on D-Xpeditions.
 - b) May: Your First Station, part 1
 - c) June: Your First Station, part 2
 - d) July: TBD
- 6) Meeting adjourned at 8:33 PM

Submitted by Recording Secretary Peter Sauermilch-KD5QPX

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THE BVARC Rag Chew Net

March 2007 check-ins

3910 KHz +/-3KHz Wednesdays at 7:00PM, Joe Morgan, K5JWM, Net Coordinator

Just WHAT IS the Rag Chew Net? Well it's a chance for you to get on the low bands and hang out with other BVARC members, as well as hams from around the south central US! WHAT?? Don't have voice privileges? Got a short-wave receiver? Dial in and listen, then check in using the telephone number announced at the beginning of each net.

03/07/07__K5JWM, K5CEK, KB5SIT, K5LBU, N8NOV, KE5CDE, KA5MEI, WD6CQO, W5UHZ, KB5LKE, KE5SR, N5CPA, K5LJ, WS5H, N5UOAKF4OHI, WB5PNL, K5LLF. Check_ins (19)

03/14/07__K5JWM, K5LBU, N5UOA, K5CEK, KE5SR, KD5CDE, KB5LKE, WS5H, N5CPA, KC5HFM, KE5CFF, W5RH, AA5CA, N5SRG, WA5VRB. Check_ins (15)

03/21/07__K5JWM, WA5VRB, K5CEK, KE5SR, KC5HFM, KJ5SS, N5CPA, K5LJ, KB5LKE, W5RH, WS5H, K5LKJ, K5SEE, WB5EXI, K5LBU, WA5TEM, KA5MEI, WB5PNL. Check_ins (18)

03/28/07__K5JWM, N5CPA, K5CEK, KJ5SS, K5LJ, K5LKJ, WS5H, K5AOA, KC5HFM, W5RH, Check_ins (9)

BVARC Historical Vignettes

Project Beacon – A Scientific Investigation Conducted by Amateur Radio Operators

Allen Mattis N5AFV, Club Historian

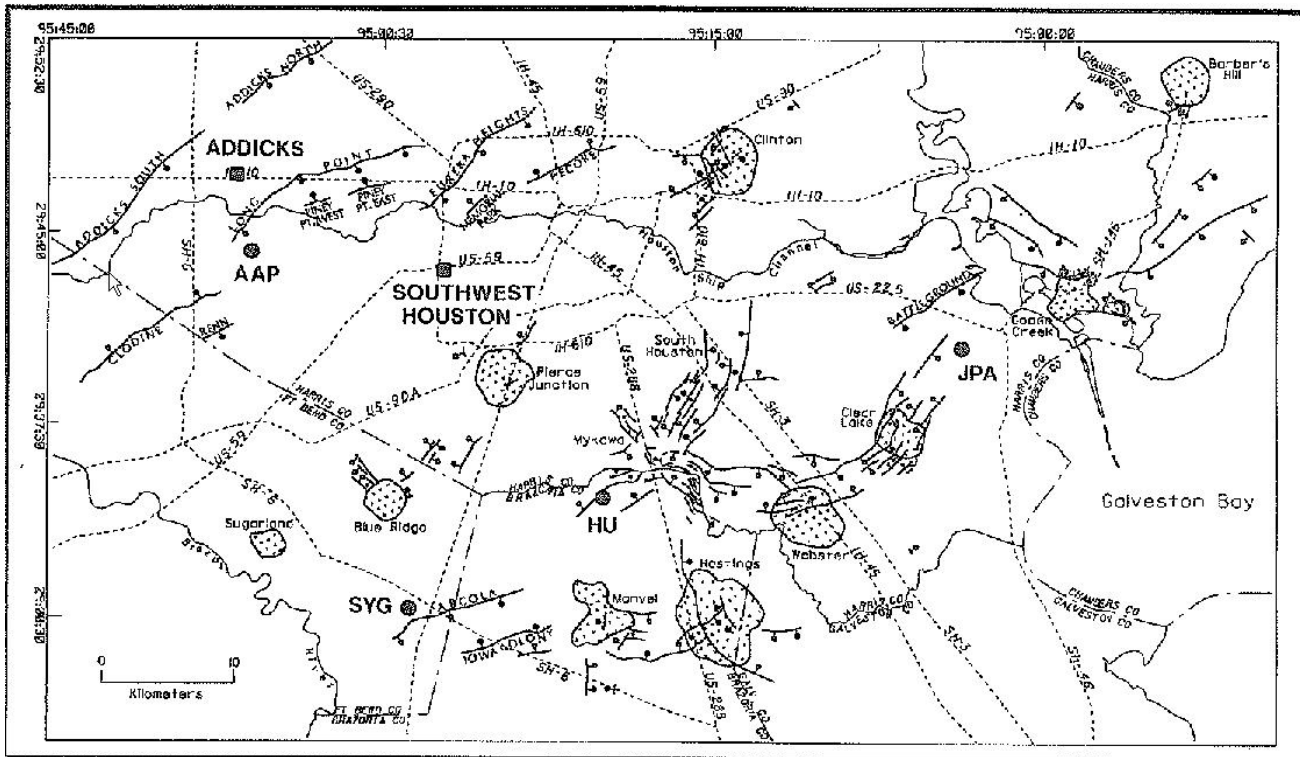
During the early 1990s, a number of BVARC members were intrigued with the low frequencies below the AM broadcast band. Many of us tuned the 198 – 527 kHz range and logged the navigational non-directional beacons (NDBs) located at many airports and coastal locations. We even occasionally listened to the lowest radio frequencies from 0.1 to 10 kHz where we could hear natural radio phenomena such as sferics, whistlers, tweeks and dawn chorus. It was this experience with low frequencies coupled with my background as a geologist that led to Project Beacon.

In 1989 Loma Prieta, California was struck by a magnitude 6.9 earthquake. Research conducted at Stanford University documented ultra low frequency electromagnetic emissions prior to and associated with this earthquake. The types of low frequency emissions associated with earthquakes have been described as 1) Primary signals consisting of odd rumblings and hissing sounds, 2) Sudden enhancement of signals or sudden drops in signal strength, or 3) Perceived shifts in the received frequency of signals. Meanwhile, in the Houston metropolitan area, the topic of ground subsidence caused in part by the pumping of water from aquifers beneath the city was a major issue. Even though there were no earthquakes, the subsidence was associated with movement along faults. The concept of a project involving both amateur radio and geology began to take shape.

The concept was discussed at the Saturday morning BVARC breakfast gatherings which were held at the Denny's Restaurant located at 8199 Southwest Freeway near Gessner. After several weeks of discussion, it was decided that we would monitor a number of the Houston area NDBs that were located near active faults. The NDBs selected were AAP (269 kHz), HU (395 kHz), JPA (347 kHz) and SYG (338 kHz). In order to minimize diurnal effects, the beacons were to be monitored at the same approximate time each day, and the monitors would listen for any of the types of low frequency emissions reportedly associated with earthquakes. Even though Houston does not have earthquakes, there are active faults associated with ground subsidence in the metropolitan area.

The beacon monitoring was conducted for a one-year period from February 1993 through February 1994. The primary monitors were Allen Mattis N5AFV, Ralph Cheek KB5DNT (now KL7AX), Bud King N5UOG (now K5CEK), TJ Layton KB5TIB, and "Scanner Jack" Roberts KB5TMY. Over a dozen other BVARC members served as backup monitors during the project. The monitors recorded signal strength and frequency of the four NDBs twice a day for an entire year. Once the monitoring period was over, it was time to analyze the data that had been collected.

A methodical look through the data indicated that no primary signals or sudden enhancement or degradation of signals were observed. There were, however, six episodes of apparent frequency shift observed by the monitors. The next step was to try to determine if any of these frequency shifts could be related to movement on the nearby active faults. The Keith-Wiess Geological Laboratory at Rice University operates a seismograph and I knew that seismograph data might confirm movement on faults, so I visited Rice University. I spoke with one of the faculty members who helped maintain the seismograph and explained what Project Beacon was about. His response led me to believe that he felt we were a bunch of crackpots trying to predict earthquakes by use of some unscientific method. He did, however, indicate that the seismograph had been taken offline for the past year due to renovation of a portion of the building. I learned two things from that visit: 1) The academic community would not take our work seriously, and 2) There were no seismograph data from Houston available for the Project Beacon period of monitoring.



Map of Houston metropolitan area showing location of salt domes, related faults, and NDBs monitored during Project Beacon

I also knew that the U.S. Geological Survey (USGS) operated a network of extensometers in the Houston area to monitor ground subsidence. I contacted the USGS office and asked if it would be possible for me to review extensometer records. I was pleasantly surprised when I was told I could certainly do so, and an appointment was scheduled. Two of the extensometers were located in Addicks and Southwest Houston and their records would be useful to us. I was able to obtain Xerox copies of the extensometer records for the six episodes of apparent frequency shift observed by the monitors. Examination of the extensometer records indicated that four of the six episodes of apparent frequency shift occurred after periods of several days or more with no movement on the extensometers. The other two episodes of apparent frequency shift appeared to correlate to the occurrence of a 4.2 magnitude earthquake and a 3.0 magnitude aftershock 175 miles west-southwest of Houston in Atascosa County, Texas. It was time to draw conclusions and come up with a geological model to explain what we had observed.

How could ground subsidence and movement along faults affect low frequency radio wave propagation? When movement ceases along an active fault, stress builds up until the movement resumes. This increase in stress would also cause an increase in the movement of saline waters in porous rock adjacent to the fault. A review of the scientific geological literature indicated that in the Houston metropolitan area, saline waters are present within sandstones at depths as shallow as 2100 feet, and that geophysical modeling done at both Stanford University and the Institut de Physique du Globe in Paris indicated that movement of saline waters at even greater depths could cause electromagnetic anomalies at the surface. Moving saline waters are an electrical conductor, and when a conductor cuts lines of force in the earth's magnetic field, a number of electromagnetic phenomena may result. The geological model put forth was a natural-occurring generator within the earth's shallow crust beneath the Houston metropolitan area.

The program at the December 8, 1994 BVARC meeting was entitled "Project Beacon – A scientific investigation conducted by amateur radio operators." Approximately 75 to 80 persons attended the meeting, including almost all of the BVARC members who had served as monitors for Project Beacon. Questions and discussion continued long after the prepared presentation ended. The material presented was eventually published in the Houston Geological Society Bulletin (April, 1995) in an article entitled "Possible Effects of Active Faulting on Low Frequency Radio Propagation, Houston, Texas Metropolitan Area." Two months later, a geology professor at the University of Houston wrote a reply to the Project Beacon article and concluded by stating that correlating radio wave propagation events to movement on faults was no more scientifically valid than correlating sunrise and crowing roosters.

One event that has rekindled interest in Project Beacon is the movement worldwide to provide an amateur radio allocation at 135-137 kHz. At the March 17, 2007 BVARC breakfast at Otto's in the Fountains Shopping Center, I had the opportunity to speak with Holger "Geri" Kinzler, DL8KW (W1KW). Geri has been visiting Houston for at least 15 years, and he tries to attend the Saturday morning BVARC breakfast whenever he is in Houston. Geri has been operating with an experimental

license on the 135-137 kHz band in Europe, and he asked me if I knew anything about the reported effects of earthquakes on propagation on the low frequencies. I told Geri about Project Beacon, and sent him a copy of the article published in the Houston Geological Society Bulletin. Today, radio amateurs around the world are becoming interested in something that BVARC members were involved with almost fifteen years ago.

Houston Area Elementary School Applying for ARISS Contact by Allen Mattis N5AFV

As most of know, ARISS is an acronym for Amateur Radio on the International Space Station. Austin Elementary School in Pecan Grove is in the process of applying for an ARISS contact where students from the school will have a chance to speak directly with astronauts on the International Space Station and ask them questions. If approved, the contact will take place on the two-meter band and last about ten minutes.

This past October, Scott McKee, NT5SM, contacted the Brazos Valley Amateur Radio Club (BVARC) and asked for help in the project. BVARC vice president Allen Brier, N5XZ, referred Scott to me because I am an active member of AMSAT (Radio Amateur Satellite Corporation) and can help bring experienced amateur radio satellite operators into the project. Scott McKee's daughter attends Austin Elementary. Scott tells me that the school team is named the "Austin Astronauts" and that there is serious interest in having an ARISS contact. Scott met with Austin Elementary principal Bud Whileyman and received approval to begin the application procedure. The application form is somewhat long and a bit complicated. Mr. Whileyman agreed to work on the contact information and educational objectives section of the application, and Scott will complete the remaining portions of the application. Scott McKee is the amateur radio contact coordinator between the school and ARISS.

It usually takes a number of different amateur radio groups working together to provide the necessary support for an ARISS contact to be successful. BVARC and the Houston area AMSAT members are needed to provide the amateur radio expertise and support necessary for the ARISS contact. ARISS (formerly called SAREX - Space Amateur Radio Experiment) is sponsored by the ARRL, AMSAT and NASA. The fact that BVARC is an ARRL-affiliated Special Service Club makes BVARC an ideal participant for this project.

There is often a significant time lag from the submission of an ARISS application until the actual contact. It typically takes as long as a year or more. After approval is received and a date set for an ARISS contact, activity related to preparing for the actual contact begins. Two complete stations (primary and backup) with antennas capable of communicating with the ISS will be set up at the school. Usually, amateur radio operators lend equipment to the school for the contact, and of course, only licensed radio amateurs can operate the equipment. The Houston area AMSAT members can provide the necessary satellite operating expertise to determine what kind of equipment is needed, but it will be a major project to assemble all of gear and set up the stations at the school. It is anticipated that the help of additional amateur radio volunteers will be needed.

There was a flurry of activity on Houston area amateur radio message boards recently as we scrambled to determine if we could get enough equipment together for two ARISS stations. The response received indicated significant support from the Houston amateur radio community for this project. Scott is now in the process of completing the ARISS application, and it will take some time for the application to be processed. Assuming the application is approved, I believe that if we all work together we can provide the students of Austin Elementary with an educational experience they will remember for the rest of their lives.

RESULTS OF THE April 10th B-VARC AMATEUR EXAMINATION SESSION
by: John Moore, KK5NU

B-VARC sponsored and administered the ARRL's Amateur Radio Examination session that was held on Tuesday, April 10, 2007 at HCC's Scarcella Technology Campus here in Stafford.

MEMBERS OF THE VE TEAM:

Dennis Dietrich, W5DDD
Jeff Fussell, KD5VGE
Larry Jacobson, K5LJ
John Moore, KK5NU
George Ontko, KM5VP

Twenty four examination elements were administered during the evening to twenty one applicants. Five new Technician licenses were attained; one new General license was attained, nine upgrades to General; and four Extra class licensee, with the total number of elements passed being 20. The overall "pass rate" for the evening was 83.3%.

Congratulations to the following who attained a license and/or passed an exam:

Jeffery K. Anderson - K5JKA - Extra
Julia E. Anderson - KE5NDF - General
Robert L. Baker, Jr. - K5LLF - Extra
David E. Barber - KE5NDB - General
Leo D. Bricker, Jr. - K5LDB - General
David A. Burton - KE5MQO - General
Ann Carroll - W5TLB - General
Earl B. Claiborne - {KE5NVD} - Technician
Robert W. Curtis - {KE5NVE} - Technician
Logan M. Flagg - {KE5NVF} - Technician
Tom G. Hargraves - KE5EZH - General
Michael F. Hufstедler - KE5KKG - General
Wiley N. Johnson - {KE5NVJ} - General
Carl L. McGee - {KE5NVG} - Technician
Michael McGowan - KD5DXI - General
Eric A. Masche - KE5MQP - General
Catherine A. Murphy - {KE5NVH} - Technician
Scott C. Reeve - KD5ZYY - Extra
Yosuke Sasaoka - KE5NAN - Extra
Charles F. Tharp - {KE5NVI} - Technician

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

All of us at B-VARC again thank everyone at HCC Scarcella Technology Center for making these excellent classroom facilities available to us for our exams each month.

..... 73

2006 Club Officers:

President:

Mike Hardwick, N5VCX
n5vcx@worldnet.att.net

Vice President:

Allen Brier, N5XZ
n5xz@arri.net

Corresponding Secretary/Treasurer:

Sid Sherwood, N5ZKD
n5zkd@arri.net

Recording Secretary:

Pete Sauermilch
kd5qpx@arri.net

One Year Board Member:

Robert Polinski, KD5YVQ
polinski@swbell.net

Two Year Board Member:

Bill Stone, WS5H
dragwtow@wt.net

At Large Board Member

Rick Hiller, W5RH
rhiller@sdicgm.com

Club Happenings:

General Meeting

Second Thursday each month,
Sugar Land Community Center,
226 Matlage Way

Board of Directors Meeting

First Thursday of each month,
Sugar Land Community Center,
See the website.

Volunteer Examiner Program

BVARC administers Amateur License Exams
on the 2nd Tuesday of each month at the HCC
Scarcella Technology Campus,

10141 Cash Rd. in Stafford.
Contact John Moore, KK5NU

Eating Schedule

Third Friday Dinner at 7:30 p.m.
Location announced in text of this edition.

Rag Chew Net

3910 KHz +/-3KHz Wednesdays
at 7:00 p.m.

Public Service Net

Monday night on 145.47 (PL 123.0) at
8:00 PM

UPCOMING FEATURED PRESENTATIONS

May

Mike Hardwick, SB154 - Will it really affect amateur radio?
Allen Brier, Allocation by bandwidth -Will it work?
DX Videos and cartoons

June

Field Day Kick-off meeting
Federal Communications Commission - Steve Lee - FCC Enforcement and
Amateur Radio

July - TBD

August

Ice Cream Social

Upcoming Hamfests

Hamfest info for the next few months. More information at:
<http://www.arri.org/hamfests.html#listing>

May 18, 19 & 20, 2007

Dayton Hamvention

Hara Arena, Trotwood, Ohio

<http://www.hamvention.org>

June 8 – 9, 2007

HamCom 2007

West Gulf Division Convention

Plano, TX, The Plano Centre, [2000 East Spring Creek Parkway](http://www.hamcom.org)

<http://hamcom.org>

Talk-In: 147.18 + (PL107.2)

BVARC EATING SCHEDULE

SATURDAY MORNING BREAKFASTS:

Otto's Bar-B-Que, 7:30 am, Fountains Shopping Center, SW Freeway.
New York Coffee Shop, 7:30a.m., 9720 Hillcroft, in Houston.

THIRD FRIDAY DINNERS: -

COME ONE COME ALL!! TO, The Hickory Barn Barbecue 281-530-
9382 [11534 Wilcrest Dr.](http://www.hickorybarn.com) Houston 77099

7:30 pm FRIDAY APRIL 20TH. EATING TOOLS ARE SUPPLIED..

73, CLAUDE..



Monthly Publication of the Brazos Valley Amateur Radio Club.
Serving Amateur Radio for Southwest Houston and Fort Bend County
Club Call sign – KK5W
BVARC Website: <http://www.bvarc.org>
Editor: John Chauvin, K5IZO, k5izo@yahoo.com
Production Team: Cameron Mitchell, K5CAM, k5cam@arrl.net
Claude Sessions, K5HFY, k5hfy@arrl.net

Brazos Valley Amateur Radio Club (BVARC) was organized in 1978, primarily as an emergency communications group available to assist the communities of Missouri City and Stafford when required. Since that time, **BVARC** has grown and expanded its activities to become the most active amateur radio club in the Southwest Houston and Fort Bend County area. BVARC is a Non-Profit Corporation classified by IRS as 501-(c)-(3).

Today **BVARC** is truly a general interest amateur radio club with an impressive record of public service. The American Radio Relay League (ARRL) has recognized the club's commitment of service with the coveted status of Special Services Club. We are proud of our members who represent some of the finest in amateur radio. Membership is not limited to licensed operators, but is open to anyone with an interest in amateur radio. Club meetings are held on the 2nd Thursday of each month at 7:30 p.m. at the Sugar Land Community Center, 226 Matlege Way. General membership dues are \$20.00 per year, with student dues \$10.00 per year, additional family members \$2.00 per member per year and life membership \$160.00.

BVARC also administers amateur radio license exams on the 2nd Tuesday of each month at 6:00 p.m. at the Houston Community College's Scarcella campus in Stafford. A Public Service Net is held each Monday at 8 p.m. on the 145.47 (minus offset, PL 123 tone) repeater & a rag chew net is held each Wednesday at 7 p.m. on 3910 KHz +/- 3 KHz.

To obtain information about joining **BVARC** or its activities, contact the club's "Elmer," Ross Lawler, W5HFF at 281-342-3340 or w5hff@yahoo.com or see the BVARC website: www.bvarc.org

VOLUME 31, ISSUE 5

May 2007

**BRAZOS VALLEY
AMATEUR RADIO CLUB
P.O. BOX 2997
SUGAR LAND, TX 77487-2997
ADDRESS SERVICE REQUESTED**

FIRST CLASS POSTAGE

BVARC Monthly Meeting – Thursday, May 10

*If your mailing label is
highlighted in color, it's time
to renew your membership!*