

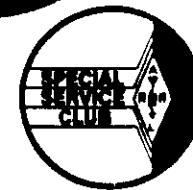
B-VARC

BULLETIN

The Monthly Publication of the
BRAZOS VALLEY AMATEUR RADIO CLUB, INC.
Fort Bend and Harris Counties, Texas

Editor-in-Chief: Production Editor:
Brenson Abbott - N5FSS Gerald Borg - N5APW

**PUBLICATION DEADLINE:
THE THIRD THURSDAY OF EACH MONTH**



VOLUME 10 ISSUE 1

JANUARY 1987

OUR PRESIDENT SAYS

Onward and Upward!

New Year 1987! We hope each of you has had a pleasant holiday season, and look forward as we do to an exciting year for Amateur Radio and BVARC. Our goal this year is to provide many opportunities for all members to participate in our activities. To do this we will be organizing our efforts so no one has an excessive workload. Often, priorities do not allow major commitments of time, and we will attempt to accommodate this.

Part of this must come from you! Any ideas you have for club activities are very welcome, and suggestions highly encouraged. If you can, come to the Board of Director's meetings. These meetings are brainstorming sessions in which new ideas take shape.

Our theme for 1987 is public relations, part of which will be several public operating events, and of course the MS-150.

The Volunteer Examination program, under the guidance of Ray Dillard, WA5F, has expanded to two sessions per month. Joe Ross, KA5GTU, is again organizing our Novice classes. We intend to use numerous guest lecturers to reduce the workload on any one individual. If it works, we may be able to hold four classes in 1987.

In short, together we'll make 1987 a Great Year for BVARC.
Come join us!

George W. Jolly, ND5E

BVARC MEETINGS

MEMBERSHIP MEETINGS

BOARD MEETINGS

DATE: Second Thursday
TIME: 7:00 PM Eyeball
7:30 PM Meeting & Program
PLACE: Missouri City Courthouse,
located one mile south of
US 90-A on FM 2234

DATE: First Thursday
TIME: 7:30 PM
PLACE: 10701 Corporate
Drive
VE Exam
location

BVARC NETS

Public Service Net

Ft. Bend Cty. Emer. Net

DATE: Mondays
TIME: 9:00 PM Local
PLACE: 145.47/144.87

DATE: Mondays
TIME: 8:00 PM Local
PLACE: 145.25/144.65

Slow Speed CW Net

Ragchew Net

DATE: Wednesdays
TIME: 7:45 PM Local
PLACE: 3.740 MHz

DATE: Wednesdays
TIME: 8:30 PM Local
PLACE: 3.960 MHz

BVARC OFFICERS AND DIRECTORS

- PRESIDENT George Jolly, ND5E
- VICE PRESIDENT Steve Yates, KA5DUU
- SECRETARY Herb Nance, N5GZW
- TREASURER Gerry Borg, N5APW
- DIRECTOR - 3 year Robert Ricketts, N5JKD
- DIRECTOR - 2 year Clint Gilliland, N5FNA
- DIRECTOR - 1 year Jim Arnold, W5RNK
- DIRECTOR - Past President Steve Schuster, WA5G

Treasurer's Report as of December 30, 1986
Submitted by George W. Jolly, ND5E

Balance as of November 17, 1986 1,044.97

Receipts:

1987 dues	388.00
ARRL Dues N5JBL, KA5NTY	50.00
December 50-50 Drawing	7.00
Patches	17.50
Banquet	350.00

Total Receipts: -----
812.50

Expenses:

ND5F - gavels	110.79
WN5A - Bulletin postage	25.75
WB5IGG - various supplies	13.02
ARRL Dues N5JBL, KA5NTY	46.00
WN5TEN - Picnic Expenses	46.70
WN5TEN - Picnic Prize	300.00
Bank Fees	13.00

Total Expenses: -----
555.26

Balance as of December 30, 1986 1302.21

73, ND5E

WE WERE THERE ON DECEMBER 11th:

WA5G ND5E KA5SGM KA5DUU WB5IGG N5FSS W5WVX
WN5A AK5G K5LTW KE5SR W5GHK N5AFV KA5NTY
N5JBL KA5QLQ N5GZW KA5ZAU/KT

GUEST

N5ECP - Jeff NO5C - Elton WB5PKK - George

BVARC PUBLIC SERVICE HONOR ROLL

- A. BVARC Field Day at Brazos Bend State Park -- June 28th
- B. Mother's Day at Sharpstown Shopping Center-- May 3rd
- C. MS-150 Bike Ride from Houston to Austin -- April 19-20
- D. Wings over Houston Air Show -- September 27th
- E. Southwest Carriage Assoc. Marathon Race -- November 1st

Steve Schuster WA5G -A,B,C	Dick Hagerman WB5SRN -A,B
Joe Ross KA5GTU -A,B	Roger Messick KA5NTY -C
George Jolly ND5E -B,C,E	Herb Nance N5GZW -A,B
Ray Dillard WA5F -A,B,C,E	Ron Nance N5IZF -B
Jack VanDermark WN5A -A	Steve Yates KA5DUU -A
Rick Covert WD5L -A	Laura Yates KA5SGM -A
Kathy Jolly KA5WHK -B,C,E	Harold Parker ND5F -B
Steve Dunkelberger N5JBL -A	Ron Bolyard KA5GYG -A,B,C
Ed Harwell W5WVX -B,C,D,E	Jerry Borg N5APW -E
Susan Grimes KA5WEB -E	John Playford WD8LQT -E
Jeff Salmons N5ECP -E	Carl Albrecht KA5QLQ -E
Bruce Davenport KA5TNZ -E	John Blair WA4PSO -E

I am sure this list is incomplete. Please let me know of any omissions or corrections. Thanks. Steve WA5G

VOLUNTEER EXAMINATION SESSION SCHEDULES

The following are the Amateur Radio license exams scheduled to be held in this area in January and February, 1987. Info listed is:

- A. SPONSORED BY
- B. Session date
- C. Session location
- D. For information contact

1. A. BRAZOS VALLEY ARC
B. (1) Jan. 13, 7PM
(2) Jan. 24, 9AM
(3) Feb. 10, 7PM
(4) Feb. 28, 9AM
C. (1) Houston, Tx.
(2) Stafford, Tx.
(3) Houston, Tx.
(4) Stafford, Tx.
D. Stu Lamkin WB5IGG
713-777-3345
2. A. GOLDEN TRIANGLE EXAM. COMM.
B. Dec. 6
C. Beaumont, Tx.
D. Johnny Carter N5IUD
409-983-6651
3. A. HOUSTON ECHO SOCIETY
B. Jan. 31
C. Houston, Tx.
D. Irv Block NZ5V
713-497-8750
4. A. BRAZOSPORT ARC
B. Feb. 7
C. Lake Jackson, Tx.
D. Steve Ray KA5KRI
409-297-7494

```

=====
:          SUNDAY          :          MONDAY          :          TUESDAY          :
=====
:                               :                               :                               :
:                               : S. TEXAS EMERGCY: 10X HOUSTON SHOT: BVA
:                               : 8 PM 145.47/87 : NET 8 PM 28.688 : CW
:                               : FT BEND CNT ARES:                               : 7:4
:                               : 8:30PM 145.25/65: AMSAT NET 10 PM : BVA
:                               : BVARC PUBLIC SVC: 145.45/4.85 MHz : SSE
:                               : 9:00PM 145.47/87:                               : 8:3
:                               :                               :                               :
-----
: 4                               : 5                               : 6                               : 7
:                               : S. TEXAS EMERGCY:                               : BVA
: WEST HOUSTON                   : 8 PM 145.47/87 : 10X HOUSTON SHOT: CW
: RACES NET                       : FT BEND CTY ARES: NET 8 PM 28.688 : 7:4
: 8:00 PM                         : 8:30PM 145.25/65:                               : BVA
: 146.06/66 MHz                   : BVARC PUBLIC SVC: AMSAT NET 10 PM : SSE
:                               : 9:00PM 145.47/87: 145.45/4.85 MHz : 8:3
:                               :                               :                               :
-----
: 11                              : 12                              : 13                              : 14
:                               : S. TEXAS EMERGCY: VE EXAM 7:00 PM : BVA
: WEST HOUSTON                   : 8 PM 145.47/87 : 10X HOUSTON SHOT: CW
: RACES NET                       : FT BEND CTY ARES: NET 8 PM 28.688 : 7:4
: 8:00 PM                         : 8:30PM 145.25/65:                               : BVA
: 146.06/66 MHz                   : BVARC PUBLIC SVC: AMSAT NET 10 PM : SSE
:                               : 9:00PM 145.47/87: 145.45/4.85 MHz : 8:3
:                               :                               :                               :
-----
: 18                              : 19                              : 20                              : 21
:                               : S. TEXAS EMERGCY:                               : BVA
: WEST HOUSTON                   : 8 PM 145.47/87 : 10X HOUSTON SHOT: CW
: RACES NET                       : FT BEND CTY ARES: NET 8 PM 28.688 : 7:4
: 8:00 PM                         : 8:30PM 145.25/65:                               : BVA
: 146.06/66 MHz                   : BVARC PUBLIC SVC: AMSAT NET 10 PM : SSE
:                               : 9:00PM 145.47/87: 145.45/4.85 MHz : 8:3
:                               :                               :                               :
-----
: 25                              : 26                              : 27                              : 28
:                               : S. TEXAS EMERGCY:                               : BVA
: WEST HOUSTON                   : 8 PM 145.47/87 : 10X HOUSTON SHOT: CW
: RACES NET                       : FT BEND CTY ARES: NET 8 PM 28.688 : 7:4
: 8:00 PM                         : 8:30PM 145.25/65:                               : BVA
: 146.06/66 MHz                   : BVARC PUBLIC SVC: AMSAT NET 10 PM : SSE
:                               : 9:00PM 145.47/87: 145.45/4.85 MHz : 8:3
:                               :                               :                               :
-----

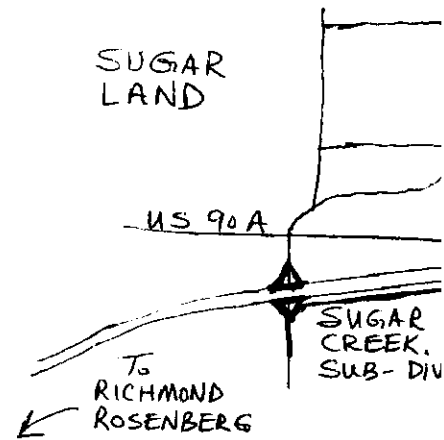
```


BYARC BAI

FROM HOUSTON
USE AIR

FROM RICHMOND
USE SUG
TAKE FE
THEN RI

TALK IN
ON 145.250
NS ECP/R

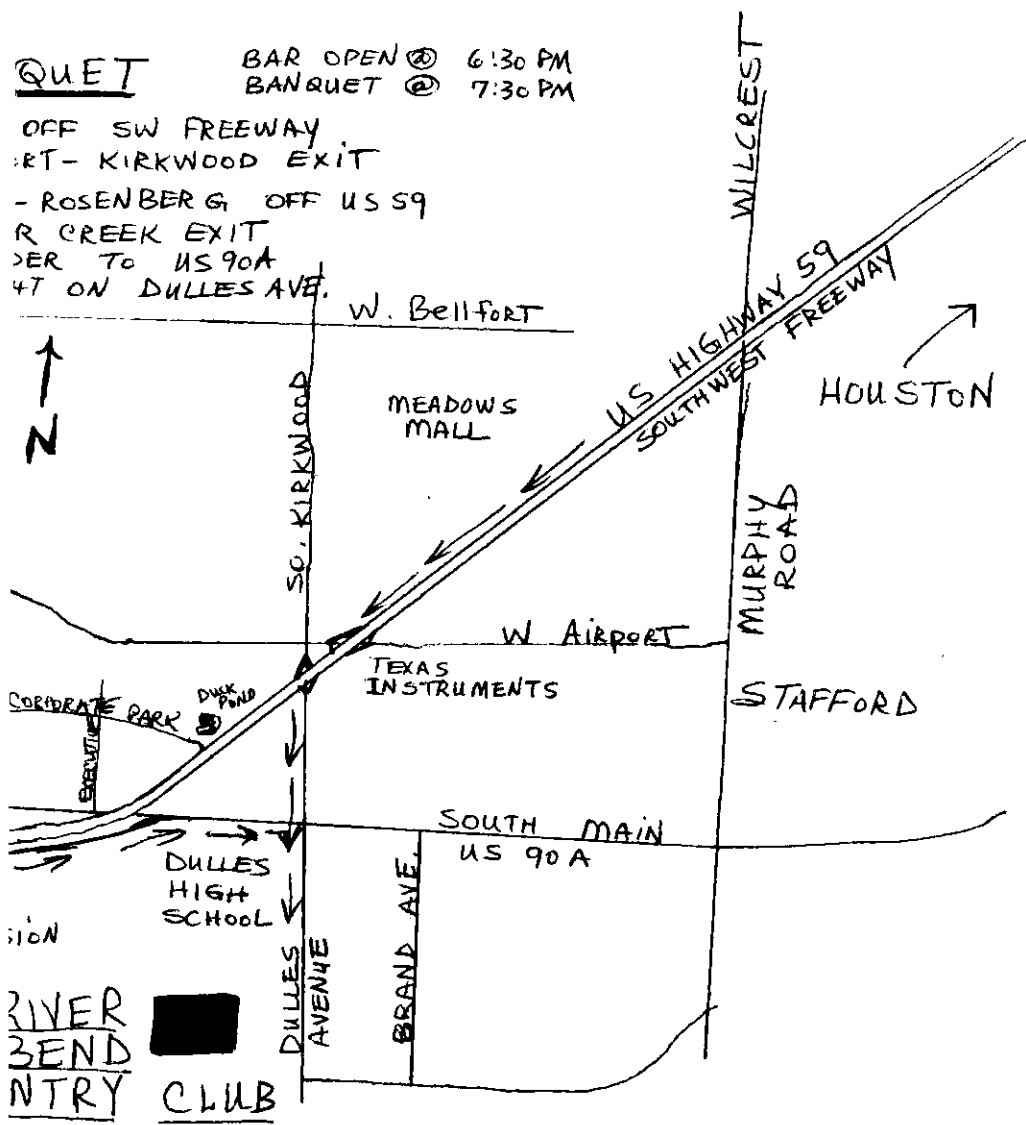


CO

QUET

BAR OPEN @ 6:30 PM
BANQUET @ 7:30 PM

- OFF SW FREEWAY
- RT - KIRKWOOD EXIT
- ROSENBERG OFF US 59
- R CREEK EXIT
- PER TO US 90A
- RT ON DULLES AVE.



ANUARY

EDNESDAY	THURSDAY	FRIDAY	SATURDAY
: 1	: 2	: 3	
C SLOW SPEED:			
ET 3.740 MHz:	BVARC BOARD OF		BREAKFAST BUNCH
PM :	DIRECTORS		HOLIDAY INN
C RAG CHEW :	MEETING		S.W. FREEWAY &
NET :	7:30 PM		WEST BELFORT
PM 3.960 MHz:			8:30 AM
:			
: 8	: 9	: 10	
C SLOW SPEED:	BVARC BANQUET		
ET 3.740 MHz:	RIVER BEND		BREAKFAST BUNCH
PM :	COUNTRY CLUB		HOLIDAY INN
C RAG CHEW :	7:30 PM		S.W. FREEWAY &
NET :			WEST BELFORT
PM 3.960 MHz:			8:30 AM
:			
: 15	: 16	: 17	
C SLOW SPEED:			
ET 3.740 MHz:			BREAKFAST BUNCH
PM :			HOLIDAY INN
C RAG CHEW :			S.W. FREEWAY &
NET :			WEST BELFORT
PM 3.960 MHz:			8:30 AM
:			
: 22	: 23	: 24	
C SLOW SPEED:			
ET 3.740 MHz:			BREAKFAST BUNCH
PM :			HOLIDAY INN
C RAG CHEW :			S.W. FREEWAY &
NET :			W. BELFORT 8:30A:
PM 3.960 MHz:			VE EXAMS 9:00 AM:
:			
: 29	: 30	: 31	
C SLOW SPEED:			
ET 3.740 MHz:			BREAKFAST BUNCH
PM :			HOLIDAY INN
C RAG CHEW :			S.W. FREEWAY &
NET :			W. BELFORT 8:20A:
PM 3.960 MHz:			VE EXAM - ECHO
:			

NET CONTROL SCHEDULE

2M - BVARC Public Service Net 144.87/5.47(ALT. 144.65/5.25)
1/5 - N5JKD 1/12 - WN5A 1/19 - KA5DUU 1/26 - KA5GTU

75M - BVARC Rag Chew 3.960 MHz.
1/7 - WB5IGG 1/14 - WB5IGG 1/21 - WB5IGG
1/28 - WB5IGG

80M - BVARC Slow Speed CW 3.740 Mhz.
1/7 - Open 1/14 - Open 1/21 - Open 1/28 - Open

Is anyone interested in reviving the 10 meter net, several of us occasionally met after the 75 meter rag chew net on Wednesdays. If you are interested, let us know at the next meeting.

ROSTER CHANGES

ANY CORRECTIONS TO THE ROSTER INFORMATION SHOULD BE
GIVEN TO JACK WN5A AT HM# 495-1121 OR WK# 975-6300.

FOR SALE

ICOM-730 Transceiver with matching
Speaker and Desk Microphone
12 Volt Power Supply included
\$500 - Negotiable
Contact Allan Matthews - KA5TJS

News In Brief

1. Student-Built NUSAT-I Re-Enters Atmosphere

A satellite built by Ogden Utah's Weber State College students and faculty and launched by the shuttle Challenger 20 months ago burned up upon re-entering the atmosphere on December 16. The Northern Utah Satellite, or NUSAT, failed as a technical project but succeeded as a learning experience, school officials said.

"I feel a little bit sad, but a little bit relieved," said Robert Twiggs, director of the college's Center for Aerospace Technology. "It's been a good project."

The satellite entered the atmosphere off the coast of Chile at 10:51 UTC and burned before reaching the ground, said Lt. Gary Turner, spokesman for the North American Air Defense Command in Colorado. The satellite was constructed of aluminum so it would burn up in the atmosphere without raining chunks of metal onto the ground.

NUSAT was launched in April 1985 from Challenger at an altitude of 221 miles. Its mission was to test and calibrate Federal Aviation Administration radar equipment, but the satellite failed because of technical problems. The college is planning a new and improved NUSAT II, expected to be ready to fly by 1988. Twiggs said students finished building the frame and were about half-finished with the new satellite's electronic work.

The significance of NUSAT to AMSAT is not inconsequential. NUSAT pioneered deployment from a shuttle Get Away Special (GAS) can, a technique AMSAT hopes to employ in the future. To that end, a number of AMSAT NA Project Managers are working with NUSAT project officials in connection with several potential shuttle payload packages or GAS can missions. The EDSAT project of Richland Community College in Decatur, Illinois and the Packet Technology Satellite Experiment (PTSE) (also called Housat) in Houston have working relations with NUSAT project officials.

2. AMSAT OSCAR 10 Continues In Limited Service

The AO-10 memory condition continues to deteriorate. Despite this, additional Mode B use may be possible under carefully controlled conditions. QRP use is essential. That means 100 watts ERP or less please. The satellite is currently experiencing eclipses of approximately one hour duration. Use of AO-10 is therefore limited to MA 21 through 199. Use between 200

and 020 is strongly to be discouraged.

The Mode B transponder has occasionally and inadvertently been in its high power mode in recent days. This is not by design but rather an artifact of the testing which continues. The test effort continues in an attempt to find an area of IHU memory which can be used for short routines for, for example, re-orienting the spacecraft to maximize sun angles in the face of seasonal geometry changes.

In very recent days, the transponder has been unusable due to IHU execution of bad code segments in memory. There is no prediction when or if this condition can be rectified.

3. RS-5 and RS-7 In Full Sun But Batteries Very Poor

According to PAODLO, RS-5 and RS-7 have survived the long eclipse period but have sustained further degradation of their batteries. In particular, RS-5's battery appears incapable of holding a charge. When load on the power supply increases, the voltage quickly drops and the transponder shuts off. The intervention of a ground command station is then required to switch it back on. RS-7 will remain in continuous sunlight between December 6 and January 3. RS-5 will remain in continuous sunlight from December 10 to January 8. Both satellites should be in operation every day except Wednesday UTC. A new operating schedule for these satellites is expected to be announced in early January.

4. New Russian Satellites Tentatively Slated For January Launch

The long rumored launch of RS-9 and RS-10 are now put in January, 1987 according to a number of European sources. The frequencies and modes of operation of these two new birds turned up recently in an IFRB filing. More recently specific frequencies have been announced. According to PAODLO, the following are the frequencies and modes for the new Russian satellites:

RS-9

	RS-9 Mode A
Uplink:	145.860 - 145.900 MHz
Downlink:	29.360 - 29.400 MHz
CW Beacon:	29.402 MHz

RS-9 Robot Transponder

Uplink:	145.820 MHz
Downlink:	29.320 MHz

RS-10

RS-10 Mode A

Uplink: 145.960 - 146.000 MHz
Downlink: 29.460 - 29.500 MHz
Beacons: 29.457 MHz
29.503 MHz

RS-10 Mode K

Uplink: 21.260 - 21.300 MHz
Downlink: 29.460 - 29.500 MHz

RS-10 Mode T

Uplink: 21.260 - 21.300 MHz
Downlink: 145.960 - 145.995 MHz
Beacons: 145.957 & 145.997 MHz

RS-10 Robot Transponder

Uplink: 21.140 MHz
Downlink: 145.957 or 145.997 MHz

(beacon frequency)

Modes K and T can operate simultaneously. The telemetry system on RS-10 differs both from RS-9 and all prior RS's. RS-10 appears to have 2 separate 250 word message storage systems which could be used to send messages via one of the beacons using CW.

The anticipated January launch is expected to take place from the northern Russian site called Plesetsk. The planned orbit will be about 1000 km inclined 83 degrees. The orbital period will be about 105 minutes. It is currently unknown if the two birds will be launched on the same vehicle.

Thanks to PAODLO and ZS6AKV for these reports.

5. Project OSCAR Orbital Tracking Books For 1987 Now Available

Project OSCAR officials say they have again published their popular orbital prediction books. The 1987 document contains every south-to-north equator crossing time and longitude for FO-12, RS-5, RS-7, UO-9 and UO-11. Orders may be placed now for the books. A minimum donation of \$10 for North America and \$12 elsewhere is requested. Mail to: Project OSCAR, P.O. Box 1136, Los Altos, CA, 94023-1136. The books are currently being mailed.

ABOUT THE BRAZOS VALLEY AMATEUR RADIO CLUB

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

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

You should have received a mail out from George ND5E describing some high lights of the year and requesting that you fill out the form that was included and send in your dues for next year. Dues for next year are \$8.00 and are due by December 31, 1986. Additional members at the same address without additional copies of the newsletter are \$2.00 per person a year.

Also, do not forget the BVARC Banquet to be held on January 8, 1987. The banquet tickets are going for \$10.00 per person this year, a great bargain.

Brazos Valley Amateur Radio Club, Inc.
P.O. Box 1630
Missouri City, Texas 77459
Telephone 713-663-6443

ADDRESS CORRECTION REQUESTED



Stu Lamkin, WB5IGG
7401 Heilig
Houston, Tx 77074

