

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

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



VOLUME 9 ISSUE 8

AUGUST 1986

YOUR PRESIDENT SAYS

I hope all of you will try to attend the August 14 membership meeting. I have arranged for Mr. Ron Stagno from the National Weather Service to come out and do his hurricane program. Remember that the August 7 board meeting will be held at the office park on corporate drive where the exams are held. If you don't know how to find it we will talk you in on the 145.25 N5ECP repeater. I would also like to convey to you that some requests have been made for a novice class or perhaps a novice/technician class for the fall. We have a couple of locations in the southwest Harris and Fort Bend county area where we could hold a class. All we need is a person or persons to teach it. Quite a few club members appeared at the ARRL convention in San Antonio. I was expecting a little bigger event, but I had a good time. At this writing, I have had no communication with the organizers of the Houston Ham-Comm. We have a lot to offer them in support of the event so I am surprised we haven't heard from them. If nothing changes, we may skip the whole thing. That is about it for now.

73 STEVE WA5G

BVARC MEETINGS

MEMBERSHIP 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

BOARD MEETINGS

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

BVARC NETS

Public Service Net

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

Ft. Bend Cty. Emer. Net

DATE: Mondays
TIME: 8:30 PM Local
PLACE: 145.25/144.65

Slow Speed CW Net

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

Ragchew Net

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

BVARC OFFICERS AND DIRECTORS

PRESIDENT Steve Schuster, WA5G
VICE PRESIDENT Joe Ross, KA5GTU
SECRETARY Vance Peterson, N5FLQ
TREASURER George Jolly, ND5E
DIRECTOR - 3 year Clint Gilliland, N5FNA
DIRECTOR - 2 year Jim Arnold, W5RNK
DIRECTOR - 1 year Carter Beghtol, KD5XX
DIRECTOR - Past President Harold Parker, ND5F

Treasurer's Report as of July 15, 1986
Submitted by George W. Jolly, ND5E

Balance as of June 15, 1986 1,680.95

Receipts:

Membership - 1986 dues received 8.00
50-50 Drawing July Meeting 8.00

Total Receipts: 16.00

Expenses:

Membership - overpaid dues refunded 4.00
Ron Bolyard - field day meat 48.09
George Jolly - Don Fly Decorating 76.94

Total Expenses: 129.03

Balance as of July 15, 1986 1,567.92

Don Fly Decorating provides the tables we use at the
Mother's Day operation at Sharpstown Mall.

Madison Electronic Supply has generously donated the door
prize which we will be giving away at the August meeting.

Minutes, July 1986 Membership Meeting

- 1) Standing Roll Call. Visitors included Bob KB5KU and Adele Gottlieb.
- 2) Door Prize (Callbook Supplement) won by WD5L.
- 3) Announcement about Camp Strake.
- 4) Announcement about San Antonio convention trip and dinner.
- 5) Card from Prudie Amarin read.
- 6) WA5F brought packet radio network maps.
- 7) 50-50 drawing won by WD5L.
- 8) Very good program on 911 system provided by WB5B and Adele Gottlieb.

THE ARRL - WHAT IS IT?

Amateur Radio has been an organized volunteer communication service and scientific hobby for over 65 years.

In May 1914 a group of amateurs in Hartford, Connecticut, led by the late Hiram Percy Maxim, noted industrialist, author and inventor, formed what has become the American Radio Relay League (ARRL). It is a non-commercial association of radio amateurs, bonded for the promotion of amateur radio communication and experimentation, for the relaying of messages by radio, for the advancement of the radio art and of the public welfare, for representation of the radio amateur in legislative and regulatory matters, for the promotion of interest in amateur radio, and for the maintenance of fraternalism and a high standard of conduct in the hobby.

The largest Amateur Radio organization in North America with nearly 200,000 members, the ARRL is the spokesman for radio amateurs in the U.S. and Canada, and is International Secretariat for the International Amateur Radio Union (IARU), comprised of similar organizations in over 120 nations.

ARRL is a representative democracy, governed by a Board of Directors elected biannually by League members in each of its 16 divisions.

ARRL publishes a monthly magazine QST, and annual RADIO AMATEUR'S HANDBOOK, and many other specialized publications on all aspects of Amateur Radio. It operates a headquarters amateur radio station which transmits daily morse code practice sessions and information bulletins of interest to amateurs. It maintains an active technical information service, coordinates an extensive field organization, and is the representative body for U.S. amateurs with the Federal Communications Commission (FCC), and other government agencies in the U.S. and abroad.

The ARRL is also a Volunteer Examiner Coordinator (VEC) under the FCC's Volunteer Examiner Program. It is by far the largest of the approximately 28 such VECs, handling nearly twice as many applicants for new and upgrade licenses as all other VECs combined.

League members receive, as a practically free bonus, the monthly magazine QST. We often hear the statement from non-member hams: "I don't belong to ARRL because that magazine isn't worth \$25.00". Curiously, it's usually the old-time ham who uses this excuse! In fact, little, if any, of a member's dues is applied to production and distribution costs of QST — advertising revenues pay them!

So ... if you're not now a League member, we'd like to have you on our team. Call George Jolly ND5E, Club Treasurer, to find out how to join. If you've never been a member, the Club treasury gets \$5.00, and if you renew through the Club, it receives \$2.00! Then for sure you get QST the first year FREE.

Stu Lamkin WB5IGG

VOLUNTEER EXAMINER SESSION SCHEDULES

The following are the Amateur Radio license exams schedule to be held in this area in August and September. The listing info is as follows:

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

- | | |
|-----------------------------------|---|
| 1.A. BAY AREA ARC | 4.A. Houston ECHO society |
| B. 8/21 & 9/17 Novice only | B. 9/20 |
| C. La Porte Tx. | C. Houston Tx. |
| D. Jim Graham K5KUZ 713-479-4430 | D. Gene Whitehurst
WA5GZX 713-921-8946 |
| 2.A. BRAZOSPORT ARC | 5.A. SAM HOUSTON AR KLUB |
| B. 8/2 | B. 8/23 |
| C. Clute Tx. | C. Cleveland Tx. |
| D. Steve Ray KA5KRI 409-297-7494 | D. Sam Neal N5AF
713-592-2257 |
| 3.A. BRAZOS VALLEY ARC | |
| B. 8/23 & 9/27 | |
| C. Stafford Tx. | |
| D. Stu Lamkin WB5IGG 713-777-3345 | |

WE WERE THERE! WHERE WERE YOU?

WA5G	ND5E	NZ5I	N5ZR	KE5SR	KB5KU	WB5SRN
KA5QLQ	KA5SGM	KA5DUU	WB5B	KA5CYZ	KA5F	N5ECP
N5FSS	W5WVX	WB5ZPE				

Special thanks to Adele Gottlieb from the 911 network on a job well done.

73 STEVE WA5G

SUNDAY	MONDAY	TUESDAY	WEDNESDAY
: 3	: 4	: 5	: 6
: WEST HOUSTON	: S. TEXAS EMERGENCY:	: 10X HOUSTON SHOT:	: BVARC
: RACES NET	: FT BEND CTY ARES:	: NET 8 PM 28.688	: CW NET
: 8:00 PM	: 8:30PM 145.25/65:		: 7:45 P
: 146.06/66 MHz	: BVARC PUBLIC SVC:	: AMSAT NET 10 PM	: BVARC
	: 9:00PM 145.47/87:	: 145.45/4.85 MHz	: SSB NE
			: 8:30PM
: 10	: 11	: 12	: 13
: WEST HOUSTON	: S. TEXAS EMERGENCY:	: 10X HOUSTON SHOT:	: BVARC
: RACES NET	: FT BEND CTY ARES:	: NET 8 PM 28.688	: CW NET
: 8:00 PM	: 8:30PM 145.25/65:		: 7:45 P
: 146.06/66 MHz	: BVARC PUBLIC SVC:	: AMSAT NET 10 PM	: BVARC
	: 9:00PM 145.47/87:	: 145.45/4.85 MHz	: SSB NE
			: 8:30PM
: 17	: 18	: 19	: 20
: WEST HOUSTON	: S. TEXAS EMERGENCY:	: 10X HOUSTON SHOT:	: BVARC
: RACES NET	: FT BEND CTY ARES:	: NET 8 PM 28.688	: CW NET
: 8:00 PM	: 8:30PM 145.25/65:		: 7:45 P
: 146.06/66 MHz	: BVARC PUBLIC SVC:	: AMSAT NET 10 PM	: BVARC
	: 9:00PM 145.47/87:	: 145.45/4.85 MHz	: SSB NE
			: 8:30PM
: 24 / 31	: 25	: 26	: 27
: WEST HOUSTON	: S. TEXAS EMERGENCY:	: 10X HOUSTON SHOT:	: BVARC
: RACES NET	: FT BEND CTY ARES:	: NET 8 PM 28.688	: CW NET
: 8:00 PM	: 8:30PM 145.25/65:		: 7:45 P
: 146.06/66 MHz	: BVARC PUBLIC SVC:	: AMSAT NET 10 PM	: BVARC
	: 9:00PM 145.47/87:	: 145.45/4.85 MHz	: SSB NE
			: 8:30PM

UST

ESDAY	THURSDAY	FRIDAY	SATURDAY
:	:	1	2
:	:	:	:
:	:	:	BREAKFAST BUNCH
:	:	:	HOLIDAY INN
:	:	:	S.W. FREEWAY &
:	:	:	WEST BELFORT
:	:	:	8:30 AM
:	:	:	:
:	7	8	9
LOW SPEED:	:	:	:
3.740 MHz:	BVARC BOARD OF	:	BREAKFAST BUNCH
:	DIRECTORS	:	HOLIDAY INN
AG CHEW	MEETING	:	S.W. FREEWAY &
:	7:30 PM	:	WEST BELFORT
3.960 MHz:	:	:	8:30 AM
:	:	:	:
:	14	15	16
LOW SPEED:	:	:	:
3.740 MHz:	BVARC GENERAL	:	BREAKFAST BUNCH
:	MEMBERSHIP	:	HOLIDAY INN
AG CHEW	FELLOWSHIP 7 PM	:	S.W. FREEWAY &
:	MEETING	:	WEST BELFORT
3.960 MHz:	-CALL TO ORDER-	:	8:30 AM
:	7:30 PM	:	:
:	:	:	:
:	21	22	23
LOW SPEED:	:	:	BREAKFAST BUNCH
3.740 MHz:	:	:	HOLIDAY INN
:	:	:	S.W. FREEWAY &
AG CHEW	:	:	W. BELFORT 8:30A:
:	:	:	:
3.960 MHz:	:	:	VE EXAMS 8:00 AM:
:	:	:	:
:	28	29	30
LOW SPEED:	:	:	:
3.740 MHz:	:	:	:
:	:	:	:
AG CHEW	:	:	:
:	:	:	:
3.960 MHz:	:	:	:
:	:	:	:

TIPS - OLD AND NEW

The efficiency of an antenna is the ratio of the radiation resistance to the total resistance of the antenna system. The total resistance includes radiation resistance, resistance in the conductors and dielectrics, including the resistance of loading coils if used, and the resistance of the grounding system, usually referred to as "ground resistance".

A half-wave antenna operates at a very high efficiency because the conductor resistance is negligible compared with the radiation resistance. In the case of the grounded antenna the ground resistance usually is not negligible, and if the antenna is short (compared with a quarter wavelength) the resistance of the necessary loading coil may become appreciable. To attain an efficiency comparable with that of a half-wave antenna, in a grounded antenna having an electrical height of 1/4 wavelength or less, great care must be used to reduce both ground resistance and the resistance of any required loading inductors. Without a fairly elaborate grounding system, the efficiency is not likely to exceed 50 percent and may be much less, particularly at electrical heights below 1/4 wavelength.

This information is taken from the ARRL Antenna book and relates to last months tips on grounding systems for grounded vertical antennas.

Brenson Abbott N5FSS

ADVANCED CLASS EXAM QUESTIONS

- 1.) What is facsimile?
 - A. RTTY
 - B. Slow scan TV
 - C. ATV
 - D. The transmission of pictures for permanent display on paper
- 2.) What does the symbol A3C mean?
 - A. Facsimile
 - B. RTTY
 - C. ATV
 - D. Slow scan TV

(See page 9 for answers and explanations.)

144 MHZ REPEATERS IN SE TEXAS

145.21---KE5HP---WHARTON TX
145.23---WB5LIN--STAFFORD TX
145.25---N5ECP---RICHMOND TX
145.27---N5DNG---DAISETTA TX
145.29---W5CPG---PASADENA TX
145.33---WA5DOS--HOUSTON TX
145.37---WA5KVS--HOUSTON TX
145.39---KA5QDG--ALVIN TX PL3Z
145.41---K5CA----DICKINSON TX
145.43---KA5BIP--HOUSTON NORTH
145.45---WB5RDK--HOUSTON SW
145.47---W5RNK---HOUSTON SW
145.49---WD5BPB--PEARLAND TX
146.62---WA4IMZ--HOUSTON NE AP
146.64---W5RRR---CLEAR LAKE
146.66---WA5KXG--HOUSTON CENTRAL
146.68---KB5CY---GALVESTON TX
146.70---WD5EFC--HOUSTON WEST
146.72---K5IHK---TOMBALL PL3Z
146.76---WA5JCJ--SUGAR LAND
146.78---WA5JDI--BAYTOWN TX
146.80---WA5PEV--LA GRANGE TX
146.82---K5GZR---HOUSTON CENTRAL
146.84---W5DWI---HOUSTON CENTRAL
146.86---W5RJV---HUNTSVILLE TX
146.88---K5VQY---HOUSTON SW
146.90---KB5NX---CLEVELAND TX
146.94---K5YSE---HOUSTON SW PL1A
146.96---WA5BUV--HOUSTON CENTRAL
147.00---WD5JIM--HOUSTON SW
147.03---WA5QKE--CONROE TX
147.08---W5ATP---HOUSTON NW AP
147.10---WD5BDX--HOUSTON CENTRAL
147.12---WB5WOV--PASADENA TX AP
147.14---WB5BMB--TEXAS CITY
147.20---W5HZ----KATY TX
147.22---WB5NVH--ALVIN TX
147.24---W5WVR---HOU. AUTOPATCH
147.26---KD5MV---LA PORTE

147.30---WB5TUF--RICHMOND TX
147.32---WB5MUI--HOUSTON WEST AP
147.36---K5DX----HOUSTON TDXS
147.38---N5KV----CLUTE TX

PL=CTCSS TONE **** AP=AUTOPATCH WA5G *** 7-19-86

JULY ROSTER UPDATES

1. KEN MCANINCH, KA5DKS - ADDRESS SHOULD BE 4730 DEVON.
2. JACK VAN DEMARK, KF5CP - NEW CALL WN5A. NEW HOME PHONE #
(713)495-1121.
3. HERB NANCE, N5GZW - NEW WORK PHONE # (713)460-0560.
ADDRESS SHOULD BE 509 BRAND LANE #48.
4. CLINT GILLILAND, N5FNA - NEW WORK PHONE # (713)462-6711.

ANY CHANGES IN ROSTER INFORMATION SHOULD BE REPORTED TO
JACK VAN DEMARK, WN5A AT (H)495-1121 OR (W)975-6300.

XXXXXXXXXXXX

We could have a special service honor roll here, but no
one has sent in any names.

If you would like to see something worth while printed
here, sent it in and we will print it.

I need a volunteer to assemble the answers to the exam
questions that we are going to run in each newsletter. We
would like to run two exam questions for each exam class;
novice, general/technician, advanced and extra. We will also
publish the ARRL correct answer for the questions. See the
exam questions and answers for the advanced class exam in
this issue. If you would like to see this expanded to in-
clude all of the exam classes, I need some help.

Brenson Abbott N5FSS

ADVANCED CLASS EXAM ANSWERS

1.) What is facsimile?

- A. RTTY B. Slow scan TV C. ATV
D. The transmission of pictures for permanent display on paper

The correct answer is D. Facsimile involves the transmission and reception of graphic material such as drawings, maps or photographs. The visual material is converted into varying audio tones and transmitted.

In the most commonly used facsimile systems, the material to be transmitted is wrapped around a rotating drum or cylinder. A spot of light is projected on the cylinder and reflects back to a photosensitive tube. The output of the tube varies according to the lightness or darkness of the material on the cylinder. This varying output is used to modulate an AM or FM transmitter.

At the receiver, the signal is detected in the usual manner. The output of the detector is a varying signal which corresponds to the varying output of the photosensitive tube at the transmitting system. This is used to control the operation of the printer. A common printer uses a stylus which traces a continuous line from the top of a cylinder to the bottom, with the lightness or darkness of the line depending upon the received facsimile signal. As the line moves from the top to the bottom of the cylinder, it "traces" a reproduction of the image originally scanned by the photosensitive tube.

2.) What does the symbol A3C mean?

- A. Facsimile B. RTTY C. ATV D. Slow scan TV

The correct answer is A. A3C refers to amplitude modulated facsimile. According to the new WARC emission symbols, the "A" stands for "amplitude modulated double sideband", the "3" refers to "modulated with analog information" and the "C" refers to "facsimile".

If enough interest is shown in this type of an article, and if I can get a volunteer to assemble the questions and the matching answers, we will put a couple of questions in each newsletter for each of the classes of exams.

Your comments and opinions are solicited.

Brenson Abbott N5FSS

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.

BVARC TRIVIA FROM WN5A

CURRENTLY 113 CLUB MEMBERS ARE IN THE FOLLOWING LICENSE CLASSES AS FOLLOWS:

UNLICENSED	11	TECHNICIANS	21	ADVANCED	27
NOVICE	12	GENERAL	20	EXTRA	22

ADDRESS CORRECTION REQUESTED



Stu Lamkin, WB5IGG
7401 Heilig
Houston, Tx 77074



Amateur Radio News Service