### D-AWC DOFFEITH

### The Monthly Publication of the BRAZOS VALLEY AMATEUR RADIO CLUB Serving Fort Bend and Harris Counties

Editor-in-Chief:

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437-4803

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622-7810 (0700-1600 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.

For information about the club and any of its activities, please call Stu Lamkin, WBSIGG, (713) 777-3345.

Volume: 12 Issue: 8

August 1989

### ADDRESS CORRECTION REQUESTED

From: Brazos Valley Amateur Radio Club, Inc.

P.O. Box 1630

Missouri City, TX 77459 Telephone: (713) 777-3345

### **B-VARC MEETING SCHEDULE**

Thursday, August 10

General Meeting

7:30 pm

Missouri City Fire Station

(Meet at Hitching Rail for BBQ @ 6:30)

Program:

Lori Sturgeon, Beldon Cable

(Free Samples!)

Thursday, Sept. 7

Board Meeting

7:30 pm

Missouri City Fire Station

Allen Mattis NSAFV 5314 Wigton

77096

Houston, Tx

# B-VARC CALLNDAR: AUGUST 1989

27 W HOUSTON RACES 2800 hrs 146.86	20 W HOUSTON RACES 2000 hrs 146.66	W HOUSTON RACES 2000 hrs 146.56	6 W HOUSTON RACES 2000 hrs 146 55		HOUSTON AREA V.E.EXAM INFO: STU (WB5/GG) 713-777-3345	SUNDAY
28 ARES 8-VARC NET 2000 hrs 2100 hrs 147:30 145:47	21 ARES B-VARGNET 2000 hrs 2100 hrs 147.50 145.47	14 ARES B-VARC NET 2700 hrs 2100 hrs 147.30 145.47	7 ARES 8-VARCNET 2000 hrs 2100 hrs 147.30 145.47		FUTURE MEETINGS: SEPT 7: BOARD MEETING SEPT 14: GENERAL MEETING	VACINONA
29 10 x 9H0T AMSAT 2000hrs 2200 hrs 26.465 145.45	22 10 X 940T AMSAT 2000hrs 2200 hrs 26 486 145 45	15 10 X SHOT AMSAT 2000hrs 2200 hrs 28 488 145 45	8 V.E. EXAMS 1990 htg., Strake Lesuit Stu (Widsigg), 777-3345	1 10 X SHOT AMSAT 2000hrs 2200 hrs 28 488 145 45	FUTURE B-VARG & PUBLIC-SERVIGE EVENTS: SEPT 11: NOVICE GLASS STARTS OGT. 14: ALA-200 BIKE RIDE TO SAN ANTONIO	THECONV
30 B-VARC C.W. CODE RAG-CHEW PRACTICE 2030 hrs 2050 hrs 3.960 147.32 (Busy? +3 Khz)	23 E-VARC C.W. CODE RAG-CHEW PRACTICE 2030 hrs 2030 hrs 3 960 147 32 (Busy? +3 Rhz)	16 B-VARC C.W. CODE RAG-CHEW PRACTICE 2030 hrs 2030 hrs 3.960 147.32 (Busy? +3 Khz)	9 B-VARC C.W. CODE RAG-CHEW PRACTICE 2030 hrs 2030 hrs 3.960 147.32 (Busy? +3 Khz)	2 B-VARC C.W. CODE RAG-CHEW PRACTICE 2030 hrs 2030 hrs 3.960 147.32 (Busy? +3 Khz)	WEDINESDAY  SUC-SERVICE EVENTS: S STARTS RIDE TO SAN ANTONIO	WEDNIESDAY
31	24	17	10 GENERAL MEETING 1950 hrs & MC FS \$1 PROGRAM. LORI STURGEON OPTIONAL BBQ & 1800 hrs HTCHING RAIL: STAFFORD	BOARD MEETING 1950 hrs M.C. FIRE STATION \$1 (KEY MAP 570-T)	ITIUHSUAY	THIIDEDAV
DX SPECIAL! FORMER B-VARC MEMBER, TOM (KCSUS) OPERATING FROM ST KITTS-NEVIS LISTEN AROUND 14.03 AND 21.03 SATURDAY, SEPTEMBER 2ND	25 LUNCH BINCH 1130 hrs. LOCALE VARIES (CHECK IN: 442.5 OR 443.15)	18 LUNCH BUNCH 1130 hrs. LOCALE VARIES (CHECK IN: 442.5 OR 443.15)	LUNCH BUNCH 1130 hrs. LOCALE VARIES (CHECK IN: 442.5 OR 449.15)	4 LUNCH BUNCH 1130 hrs. LOCALE VARIES (CHECK IN: 442.5 OR 443.15)	NOTE: Nets meet weekly even if not shown	אמום
TOM (KCSUS) NEVIS H.OS	26 C.W. B-VARC BREAKEAST 2030 M 0730 My DENNY'S 147.32 SHARPSTOWN	19 CW. B-VARC BREAKFAST 2030 hr D730 hr DENNY'S 147.32 SHARPSTOWN	12 C.W. B-VARC BREAKFAST 2030 hr 0730 hr DENNY'S 147 32 SHARPSTOWN	C.W. B-VARIC BREAKFAST 2030 hr 0730 hr DENNY'S 147.32 SHARPSTOWN 10-10 Comtest Grey K5LTW	Phease send info and corrections to lay (KBSEXM) 437-4803	CATIIRAV

		above		12
	ייווע	amove	IIIIX	

# Field Day

1.	Field Day Call Used $WJ5B$ 2. Club or	group	name <u>l</u>	3ra30.	5	Valley	, ARC
3.	Field Day Call Used $\frac{WJ5B}{Begr}$ 2. Club or Field Day location $\frac{Begr}{Creek}$	Par	<u>k</u>	War M	פין נינים	rial D	r. Houst
	Check if you began set-up prior to 1800 UTC Saturday.   5. Number of people pating in this operat				er of	transmitter us operation	s in
7.	Entry Class (check one only):		CW			PHON	É
	III A. Club or non-club group portable		QSOn	Power Output		QSOs	Power Output
	I I B. Non-club portable 1 op 2 op	160			160		
	list operators	80	8	4	80	5	4
	[] D. Home station (commercial power)	40			40	37	100
	☐ E. Home station (emergency power)	20	343	100	20	280	100
	Power source	15	15	50	15	98	100
0.	Generator 🔲 Battery	10			10	10	25
	☐ Commercial mains ☐ Other	6		- 2 -	6		
	Call sign of Novice/Technician station $\frac{1567}{618}$ (class 2A and above) 309 618	2	43	25	2 Cuba-	172 14	4,25
9.	Call sign of Novice/Technician station //	Other			Other	1-2-1-1	1,00
	2 14 G 2 F	Other			Other	<u> </u>	<u></u>
11.		50	1 111	GW OSO-	1	434	PHONE QSOS
-	Total phone $638 \times 1 = 638$	09 -	0	Novice CW QSOs	1 -	204	Novice PHONE QSOs
	Total QSO points 1256 1256  Total QSO points 1266 × Power Multiplier (5 W	09-3	14	Total CW QSOs		638	Total PHONE QSOs
	1266		5 150	33/ 1 N	. 1	150 W	vn 2
12.	Total QSO points X Power Multiplier (5 W	or less	(, ×5; 130)	W or less, >	( Z; U	vei 130 11,	^ I/
	equals Claimed Score (less bonus points) 2532	<u> </u>	3 70				
13.	Bonus points			U WIAW I			
ı	☑ 100% Emergency p	ower		☐ Messages	s Han	idled (no.)	<del></del>
At	tach proof required for all  If Media Publicity nus points claimed. All bonus  If Media Publicity Location in Public	Place		☐ Natural	Powe	г	
po	ints will be added at ARRL HQ			Packet P			,
•	☐ Message to SM			□ Other _			
14. This certifies that the station whose call appears above was operated in accordance with the current Field Day rules and that, to the best of my knowledge, the points and scores set forth in the above summary are correct and true. This station was operated in accordance with FCC rules and regulations. I agree to be bound by any decision of the ARRL Awards Committee.							
	Date 7-12-89 Signed 17 Mance		Cal	<i>N56E</i> 	signa	ture/call of	club president
	B	raj	os Val	ley Ama	+ 64	r Nadio	L140
15	. Full mailing address (please print): Name	2/	1816 /	Varie		·	
	Address	103	Fenn				
		Push	aran,	TX 275	85		
	. <u></u>						

								BRAZOS VALLEY AMATEUR RADIO CLUB
		AT	TENDANCE R	OSTER	M	J	J	1989 ACTIVITY ROSTER
	В	-VARC	GENERAL M	EETINGS	A	Ü	Ū	compiled by Allen Mattis NSAFV
			= NEW CAL	L	•	•	_	A.HOUSTON TENNECO MARATHON B.CHALLENGER CUP SK C.FINE ARTS 5K D.MOTHER HUBBARD SK
KF	5	VZ	BRENSON	ABBOTT	X	X		E.CONOCO RODEO RUN 10K F.WOMEN'S HOSPITAL 5K
AA				ALBRECHT	X	X	X	G. AZALEA RUN 5K H. HULL AIR SHOW
		JMF		ANDREWS ARNOLD	J	X	X	I.MS-150 BIKE TOUR J.MAGIC CIRCLE 10K
W	5	RNK	SHIRLEY		X X			K.ALA CLEAN AIR BIKE RIDE L.DAD'S DASH 6K
N	5	OFD		BAIRRINGTON	.,	X		M.ARRL FIELD DAY
		MCP	RUSSELL			X	X	Abbott, Brenson KFSYI E,I
N	5	APW	GERRY		X	Χ.		Abbott, Brenson KFSYI E,I Albrecht, Carl AA5JW H,I
A.	_	NTO		BROWN BROWN		X Ì		Black, Russell KASMCP M
		ACF		CASEY	x	^		Borg, Gerry NSAPW A,B,C,E,5,H,I,M
WD	5	L	RICK	COVERT	X		X	Cheek, Ralph KB5DNT A,C,D,E,6,H,I,J,K,L,M
			LAWRENCE		X	X	X	Covert, Rick NOSL M
		LYB		CREEL	X X	x	X	Cox, Lawrence KB5JGS M
N KG		KXU		DESSENS DESSENS	X	x	x	Dessens, Bill N5KXU C,6,H
WA				DILLARD	X	X		Dessens, Mark K65JT M
.,			ALICIA				X	Dilliard, Ray MASF A,C,E,F,6,H,I,J,K,L,M
AA			DAVE			X	X X	Dyer, Alicia I,M Dyer, Dave AASGA A.C.E.F.I.M
	_	LGS	KARLA	EDWARDS		X	x	
WB	4	LZG	MELANIE			x	X	Dyer, Debbie KB5GUY A,C,I,N Dyer, Karla N5L6S A,C,E,F,I,M
KB	5	ICO		EDWARDS		X	X	Edwards, Glens WB4LZ6 A,C,D,E,H,1,K,M
		IQP		FOSTER	×	v	u	Edwards, Helanie A,C,D,M
		OEN		GOTTLIEB GRIMES		X	X X	Edwards, Susan KB5ICO A,C,D,F,H,1,K,M
WH	J	SCE	SHARON				X	Eilers, Wade WNSTEN I
N	5	LXE	· ·	HAMMER	X			Foster, Greg KBSIGP H,M
	5			HAMMER	X	X	U	Gottlieb, Steve MASDEN H, M
		JLT	MARK		x	x	X	Haemer, Cindy NSLXE I.M
WA :		WVX		HARWELL HOLLIMAN	^	x		Hanner, Dave NJ58 1.M
<b>,</b>	•			JACKSON		X		Harris, Ron NSMKO E,H
ND	5	Ε	GEORGE		X			Hickox, Bill KSBDI M King, Suzanne KBSBAY A,C.D.E.F.G.H.I
		WHK	KATHY		X	X	x	King, Suzanne KB5BAY A,C,D,E,F,6,H,I Lamkin, Stu MB5I66 A.M
		OUT :		KRUSE LAMBUTH	X	X	*	Lance, Dave KBSEYK C,E,H,I
	_	IGG		LAMKIN	X	X	X	Lance, Lee KBSEST H
		EST		LANCE		X		Mattis, Allen N5AFV B,C,E,F,H,L,M
KΒ	Ε	GIM		LANCE		X		Morrison, Henry WSRIY A,C,D,E,I,M
<b>V</b>	•		MICHAEL	LEFEBVRE	x	X	x	Mance, Herb NSBZW H,I,M
K	J	LTW		LHAMON	^	^	X	Overacker, Lawrence KBSAKS M
?	5	???		LHAMON			X	Parker, Harold NDSF A, E, F, G, H, I, J, L
N	5	AFV	AL	MATTIS	X	X	X	Pollard, Randy AK56 C,H,J,L,M
			-	McPHERSON		X	X	Prochaska, Charles K65KV F,M
		YSL		MEYER	U	x	X	Ricketts, Robert N5JKD I,L,M Smith, Irv KB5EXM E.I.M
N	5	GZW		NANCE NOVELL I	X	^	^	
WA	5	ETS		ORLANDO	x	X		iodd-Brown, Bill N5MPN M Van Demark, Jack WN5A D,F,H,I,J,M
		AKS	LARRY	OVERACKER	X	X	X	Warden, Mike MB3HZP A,E
ND				PARKER	X	X X	X	navial tite
AK		ΚV		POLLARD PROCHASKA	X	x	x	
		υJ	RANDY				X	PLEASE REPORT CORRECTIONS OR ADDITIONS TO WSAFV
		JKD		RICKETTS	Х	X	•	
	-	J		ROWE		X		B-VARC RAG CHEN NET CHECK-INS
N	5	ECP		SALMONS	X		u	3.960 MHZ 8:30PM WEDNESDAY
		TUO		SCHEXNAIEDE	X	x	X	compiled by Alien Mattis MSAFV
. KB	כ	EXM		SMITH SORENSEN	^	^	X	
κΔ	5	SLG		TAYLOR	X		×	JUNE 21, 1989
		ION		THATCHER	X	X		NSAFV NCS, NSMPN, NSECP, NSMNK, NSMTP,
N	5	MPN	BILL	TODD-BROWN	X	X	X	K66KV, WNSA, AKS6
		EQH		TORRES	X	x	X	JUNE 28, 1989
		OFE		TUCKER VAN DEMARK	X	x	x	NSAFY NCS, KCSAC, K65KV, NSMPN, NNSA,
		A LSB		VERDON		X		KG5UJ, M5NTP, AK56, WD5CYQ _JULY 5, 1989
		XQ		WEISS		X		NSAFY NCS, KBSDNT, KGSKY, KGSUJ,
	-					<b>.</b> -		NSMPM, NSECP
				TOTAL.	39	47	39	JULY 12, 1989
								NSAFV NCS, KBSDNT, K6SKV, NSHPN,
								MSNTP, AKS6

\*

### RESULTS OF THE JULY 11TH EXAM:

by: Harold Parker, ND5F

B-VARC again sponsored and administered the ARRL's Amateur Radio Examinations that were held on Tuesday evening, July 11, 1989 at Strake Jesuit College Preparatory in Houston.

### The V.E. Team and Assistants:

Ray Dillard, WASF George Jolly, NDSE Stu Lamkin, WB5IGG Irene Gordon, NSAYX Hy Gordon, NCSA Carl Albrecht, AASJW Cass Germany, KG5IT Harold Parker, NDSF

A total of thirty-eight (38) exams were administered during the evening to fifteen (15) applicants. Two (2) unlicensed candidates received their new Technician License and four (4) candidates upgraded their licenses with a total of nineteen (19) elements passed. The overall "pass rate" for the evening was fifty (50%) percent.

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

Lois Andrews, KB5JMF - Technician Miguel Chiusano, KB5JFX - General Stephen Farlow - Technician Michael Garay, KB5ISX - Technician Godik Gyldenege - Elements 2 and 3A Kevin Knox, KF5BW - Element 4B Steven Lhamon - Element 3B Larry Moore - Technician George Reynolds - Elements 2 and 3A Timothy Stanley - Element 2 Jennifer Waits - Element 1A Hans Zorn - Technician and Element 3B

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 Vincent, WASETS, and everyone at Strake Jesuit College Preparatory for making these excellent classroom facilities available to us for our exams each month.

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### VOLUNTEER EXAM SESSIONS FOR AUGUST & SEPTEMBER 1989

### Stu Lamkin WB5IGG

Following are Amateur Radio license examination sessions scheduled to be held in this general area during the next two months, according to ARRL/VEC. In addition to the Houston Metro area, those scheduled within 200 miles are included because we have started receiving inquiries about such when none are scheduled to be held within the Houston vicinity. The listing information include A. Sponsoring group, B. Date and location of session, and C. Name & phone number of whom to call for details of the session.

- 1.A. Brazos Valley ARC
  - B. Aug. 8 & Sept 12 in Houston
  - C. Stu Lamkin, 713-777-3345
- 2.A. Houston Echo Society
  - B. Sept. 23 (or Sept. 30) in Houston Irv Block , 713-497-8750
- 3.A. Sam Houston AR Klub
  - B. Aug. 12 in Cleveland TX
  - C. Sam Neal, 713-592-2157
- 4.A. San Antonio RC
  - B. Sept. 2 in San Antonio
  - C. William Davis, 512-735-1622
- 5.A. Unsponsored
  - B. Aug. 12 & Sept. 9 in Humble
  - C. Jim Shotwell, 713-443-2812

### 10-10 OSO PARTY

On the weekend of August 5th, the Houston SHOT 10-10 group will be joining in a QSO party. Last year they won the travelling trophy, and they hope to keep it this year.

Contact Stu (WB5IGG) at 777-3345 for information. Do it early enough to get your 10-10 number. You can contest with out it, but your points count more if y have it.

Note that the Novice band is used, so all hams can participate.

### NEW FALL '89 NOVICE COURSE

### Stu Lamkin WB5IGG

B-VARC's Fall '89 Novice course is scheduled to have its first class meeting on Monday, Spetember 12 in a classroom on the Strake Jesuit Ptep. School campus. There will be no tuition fee and students must obtain their own copies of the NEW 8th edition of the ARRL publication TUNE IN THE WORLD WITH HAM RADIO. It will be available in the ham radio stores or directly from ARRL after mid-August.

The 7th Edition will be obsolete because the Novice question pool has been from 301 to 372 questions and examinations given after October 31 must obtain questions from the new pool.

For more details or any question, call Stu Lamkin WB5IGG at 713-777-3345.

### MONITORING & THE LAW

Send information or questions to: Roger West, (MN-052) P. O. Box 52, Balsam Lake, WI 54810

Hello members! If you are a new member of RCMA, "WELCOME"!!! I recently monitored a distress signal on the marine emergency frequency of 156.800MHz. wrote down what I had heard (which was very little) and called the Polk County Sheriff. He took down what little information I had and said that he would be contacting the United States Coast Guard. I feel this would be a good time to review what a person should do when they hear a distress transmission. These quidelines were writtten by William Mauldin, General Editor of RCMA.

### WHAT TO DO WHEN YOU MONITOR A CALL FOR HELP

Here are a few items you should note at your monitoring post in the event you monitor a radio call for help. Many times with todays frequency conjection and interference, only a radio monitoring buff will hear the call for assistance. Take note and know exactly what to listen for - and who to call.

1. Get the identification of the unit or person calling for help. Have a

pencil and paper close by your monitor, and write down what you hear.
2. When relaying the information, give the official call signs and unit numbers that you heard on the air. If you are uncertain, say so. Don't give anything that is not totally correct without saying so.

3. Relay the exact nature of the distress, emergency or danger.

If you are monitoring and a description is given, repeat it exactly without adding comments or additional information.

5. Get as much information as possible on the number of people involved.

6. Pay special attention to information on injuries or deaths involved.

7. Relay exact information about the location involved. If you are uncertain about the location, by all means say so. This is very important, as help can not be dispatched without good, clear directions. Be exact and give details.

8. Note the frequency used in the distress call. Was it strong or weak signal? Note other things which might be of help in identification of the transmit-

ting unit.

9. In your relay, mention anything unusual about the signal, unit numbers or other information which might be helpful. Do not state that you think it was a false call in your report. let the authorities work on this in their investigation.

10. Note exactly what kind of help is needed, and how quick.

11. Give additional information of the weather or site conditions which might be helpful to rescue teams as they arrive.

12. If you have the name of the officer, department, aircraft, or person making the call, note it in your report.

13. If in doubt, call someone and relay your information. Give your name and telephone number for future reference. It is always better to let the authorities check out any distress situation then to not say anything at all.

14. Don't give any uncertain information without saying clearly that you "are not certain about this part", and give the reason why you are uncertain.

here are some telephone numbers to note. Although these are mostly for short wave radio distress reports, they should be noted for possible emergencies:

Scott Air Force Base (nationwide emergencies) 1-800-851-3051

For reporting EMERGENCIES ONLY: U.S. COAST GUARD

<u>A</u>	TLANTIC	<u>PACIFIC</u>		
Boston Cleveland Miami New Orleans	617-223-3644 216-293-3984 305-350-5611 504-682-6255 212-668-7055	Central Pacific Eastern Pacific Long Beach, CA San Francisco Seattle	808-546-7109 415-556-5500 213-590-2223 415-556-5500 206-299-5886	
New York Norfolk St. Louis	804-398-3231 314-425-4614	Northern Pacific	907-586-7340	

In addition to these numbers, you need to note the numbers for your state police/highway patrol, the local police and sheriff, local EMS and fire. Don't forget to note the number for the closest FAA Flight Service Station and airport control tower. You should have these numbers available, as they are difficult to find when you are excited and trying to remember the facts during an actual emergency.

Editor's note: This is an excellent article and I agree with Bill Mauldin 100%.

- (D.) Monitoring ceelular and mobile telephone conversations is illegal.(E.) It is a federal crime, with severe punishment and/or fines to:
- 1. Divulge what you hear on a monitor.
- 2. To make use of information you hear.

## Meteor Burst Communications

Trucking Trucks Without Satellites
Reprinted from May 1989 High Technology Business

Sent in by Ronald B. of Portland Oregon

If Transtrack Inc. is successful, the nation's truckers won't depend on expensive, finite satellites to keep track of their long-haul vehicles. The Marion, Mass.- based startup bounces its tracking signals off a medium that never needs replacement: the ion trails left by billions of dust-sized meteors between 53 miles and 72 miles up.

By bouncing VHF signals off this "meteor scatter," as it's called, Transtrack believes it has the low-cost answer to keeping track of long-haul trucks. Each meteor trail lasts from a fraction of a second to several seconds, but that's long enough to transmit vehicle-tracking data on a high-speed data network. For longer messages, Transtrack must use a sequence of meteor trails and piece the resulting signals together at its network control center.

The great advantage with Transtrack's system is cost: No need to launch or lease expensive satellites that eventually need replacements. A 1986 study commissioned by Transtrack indicates that an investment in a 1,400-vehicle fleet equipped with the Transtrack system will result in an eight-month payback. The ROI calculation included the telephone cost normally incurred by drivers when they check in with a dispatcher. The national trucking company that authored the study also helped Transtrack fund its research and testing and worked with Transtrack to develop prototypes and system specifications. Transtrack has been using the prototype system and is currently negotiating with a radio manufacturer that will produce the needed hardware.

Transtrack says it designed the system so that its transmissions would not interfere with television reception or other motor carrier licensees; under its FCC license, the company is responsible for alleviating any interference problems.

Mobile units are tracked by at least one base station. Each of the five base stations scattered about the nation monitors vehicles within a 500-to-700 mile radius and can handle several thousand vehicles. Network use is restricted to necessary communications to avoid potential interference with other users of the frequency in the area. In operation, the base station constantly transmits on one frequency (43.92 megahertz) and trucks respond on another (44.42 megahertz).

The base station's probe signal reaches a mobile unit when a meteor creates a suitable trail of ions. When the mobile unit receives a signal, it responds with its own short burst signal, indicating position data and, if necessary, a communication text message. Position data, based on Loran-C, is picked up by the radio transceiver, which transmits it to the nearest base station. Receipt of the message is acknowledged in both directions.

Communications and position-location information are carried between base stations and the network control center via phone lines. The 2,000 watts of base station power is expected to overcome any mobile unit interference problems. Weather conditions aren't expected to have any effect on the system.

As far as the FCC is concerned, Transtrack is ready to roll. Last year the FCC authorized construction and operation of a nationwide network. The approval permits up to 64,000 mobile units, the maximum that can be covered by the five base stations, which overlap each other and provide system redundancy.

But the system is still on trial. Transtrack has completed initial testing with North American Van Lines and will equip its tractor-trailers with the first production units in March. North American Van Lines will at first use the system for high-value shipments. According to Transtrack, three to four other truckers will soon test its system.

Another company, Pegasus Message Corp., Herndon, Va., has an experimental license from the FCC to operate its proprietary meteor-burst tracking system and hopes to inaugurate nationwide coverage this year.

### Some additional details from USSN

Transtrack wasn't the first company to be granted a waiver of the FCC rules to allow meteor burst communications systems in the continental United States. The FCC first amended its rules in 1983 to permit such systems in the state of Alaska (where meteor trails occur with much greater frequency, and also the need is much greater). Four frequencies were allocated, two for use by Common Carriers for use on a for-profit basis (42.40 and 44.10 MHz) and two for use in the Private Land Mobile services (44.20 and 45.90). The rate of dispersion and the time required for practical burst techniques makes the 40 to 50 MHz frequency range the most effective. The State of Alaska had indicated that they intended to set up their own system to transmit telemetry from remote locations within the state. Since then a number of concerns have applied for and received waivers to operate systems in the lower

Transtrack has operated their system for a few years in Massachusetts under an Experimental license and subsequently received permission to operate a trial system in Florida also. Their permanent waiver is typical of those being issued. Their base stations, which transmit the interrogation of the remote units, utilize high power (for which a waiver of the FCC rules is required) but are located in remote areas where the likelihood of interference is small. We're talking about real metropolises here: Sawmill, Arizona, Tipton, Mississippi, Haysville, North Carolina, Diana, West Virginia and Park Valley, Utah. Transtrack stated that there are no more than nine, and as few as three, structures within a mile of any base station. The mobile units reply on frequencies that are regularly used by trucks (the Motor Carrier Radio Service) and utilize 300 watts, which is permitted under FCC rules. Their transmission duration is only 50 to 100 milliseconds long, so the likelihood of interference is, again, very small.

Similar waivers have been issued for a variety of innovative services. Enron Corporation received a waiver for the operation of a system by its Northern Natural Gas subsidiary. They were allowed to operate on a frequency offset half-way between two Petroleum Radio Service channels (48.65 MHz) to further reduce interference, using 500 watts. Their system interrogates solar-powered remote telemetry transmitters that monitor the status of its 37,000 milelong pipeline system, in particular in remote areas where conventional radio telemetry links are not feasible and no other forms of communication are avail-

Media Data, Inc. operates a system utilizing 500 watts on 42.40 and 44.10 MHz. And even the U.S. Government has their own meteor burst communications system. For years, the Department of Agriculture has operated the SNOTEL system on 40.53 and 41.53 MHz. Its remote units monitor water management resources in eleven Western states.

-USSN-

Special thanks to Bill Walker Royalton District Manager of Warner Cable, for donating the use of their copier and supplies for printing the newsletter.

# Your life story on repeaters

chard Rhodes, KH6IO

At a backyard ham picnic, a man reminded me that we had met before. "You gave the talk at the Dallas ARC a couple of years ago about security... about not talking so much on the repeaters concerning our personal lives. I still remember the things you said."

Goodness. The talk was two years ago and this fellow remembered what I said. That's better than a lot of preachers, whose sermons may not linger past the final hymn. "Maybe you ought to write an article for QST," he continued. Not a had idea.

I have spent a major portion of my adult life as a U.S. Treasury agent, a CIA agent, and a writer and lecturer to citizen and police groups on the subject of security. I am more sensitive than most about locking my car and my house, and watching what I say concerning my personal comings and goings. While you may never share my total outlook, some of my observations should cause you to stop and think about some of the things you say on your local repeater.

Because repeater activity is usually confined to talking to the same friends

to the point that we recognize each ser's voices — we tend to forget how many eavesdroppers there are. With all the scanners, portable radios that tune the VHF bands, ham rigs sold at flea markets, etc., there is a vast audience out there for your casual remarks. Couple that with the fact that you are listed in the Callbook, and possibly in a local ham directory, and you are inviting problems if you talk indiscriminately.

I let my ham license expire while I was in the CIA. Getting on the air and talking about my work was not part of their master plan for me. When I returned to civilian life in Dallas, I started studying for my ticket and bought a 2-meter rig. This was my first exposure to modern ham repeaters. I couldn't believe what I heard.

I made some profiles of people and families I heard on the repeaters and phone patches. I learned the names, addresses and phone numbers of the husbands' and wives' employers, their home addresses and phone numbers, the names and ages and the schools attended by their children. Also divulged were long lists of personal possessions, their vacation plans (with dates and places), the nights they would be out for dinner a show, and even when they would

urn home. Some folks told who was left at home (elderly parent, child, baby-sitter), and where they left the spare key to the house. On and on it went.

Also heard discussions of what kind of medications people were taking, the kind of booze they drank, and the general status of marriages. "Love you a bunch," or the irate XYL who answered the phone patch call with, "You've been talking to Mary Jane!"

"How'd you know?"

"Never mind how I know."

"Can't we talk about this later?"

Is any of this the business of a stranger? Would you go on the local AM radio station and talk about these personal matters? It's little wonder that you hear so many hams remark, "Well, I don't talk on the repeater much, but I listen a lot." I should think so. It's incredible what you hear.

"Well, I'm just about to get on the plane. See you all in a week, KH6IO clear." Each time I hear something like that coming into a repeater from the airport, I cringe. Anyone listening now knows you have gone on a trip and won't be back for a week. I don't have to draw a picture for you to understand the implications of the wrong person having that information.

I make it a practice never to talk about a trip as I leave town. Anyone who really needs to know that you are leaving already knows. Don't tell the

Every city seems to have a bachelor who asks directions over the phone patch for every new YL he is dating. "It's apartment 212, upstairs on the right. My blue 280Z is parked just under my bedroom window." Most likely, W5LOVER is trying to impress everyone on the repeater that he has a new girlfriend (any girlfriend). I'm sure she would be upset if she realized he had just broadcast her location to all those listening. And now that touch tone decoders are common, it's easy to get the phone number, too. Bad news.

Some things overheard recently on a local phone patch were: "If I go out before you get here, I'll leave the house open." And a guy talking on the patch to his YL around midnight, both agreeing that she will spend the night alone at her place. The next day the same guy was talking with her again on the patch, whole world. Wait until you've returned, and then get on the air to announce your triumphant return. Never mind that the first response may be, "Oh. You have been out of town?" Your dog probably missed you.

Then there's the phone patch. Wonderful gadget. Lots of fun. But don't turn it into a daytime soap opera with revelations of your personal life.

arranging for her to spend the night at his place. Wouldn't she be surprised to come home the next morning and find her apartment ransacked. I wouldn't. Many times we use a repeater when direct communications would do the job. I make it a practice to use a portable transceiver on low-power simplex whenever I am giving final directions to my place. If you must talk about your personal life, at least limit the audience as much as you can. And don't do your fellow hams a disservice by talking to third parties about your friends' plans for evening outings or vacations.

Earlier, I mentioned Callbook listings and local ham directories. Think about listing a "mailing address" with the Callbook and the FCC that is different from your home address. It's not easy for some to do this, but it seems worthwhile.

You may think I'm being unrealistic and there is little left for you to talk about. Not really. Simply use common sense. Ask yourself, "Is this something I want a complete stranger to hear?"

The concept of security is harder to sell than a 75-meter rhombic to an aeronautical mobile operator. A majority of customers for security products has already been victimized. Don't assume that it always happens to other people, or wait until something happens to you before you become conscious of your own security. Remember . . . our broadcasts don't have commercials. You'd be surprised what a crowd that can draw. Think before you punch that mike button. Someone may just be waiting for you to supply that last piece of the puzzle.

— ARNS Bulletin

WORLDRADIO, June 1989

### ELMER PROGRAM

B-VARC's Elmer Program is now underway. We have a list of volunteers willing to help new Hams with various aspects of the hobby.

People wanting such help are urged to call Stu (WB5IGG), 777-3345. He will match up needs and geographic locations.

There is still room for more Elmers. Call Susan (KB5ICO), 498-7425 to be added to the list.

### FILL IN THE BLANKS TEST

This is not a test of your mathematical ability. It will however, give you some gauge of your mental flexibility and creativity. Since the test was developed it has been found that few people can solve more than half of the problems on the first try.

<u>Instructions</u>: Each problem below contains the initials of the words that will make it a correct statement. Find the missing words. <u>Remember</u>, these represent statements, <u>not</u> mathematical equations.

Example: 16 = O in a P.....Answer: Ounces in a Pound

1.	26 = L of the A. Zetters of the alphabet
2.	7 = W of the A W Worlds of the Arient world
3.	1001 = A N
4.	12 = S of the Z Signs of the Zodiac
5.	54 = C in a D (with the I) Cards in a dock with the Okces
6.	9 = P in the SS plaxeto in the odar septem
7.	88 = PKpiano keip)
8.	13 = S on the A F. Stars on the americanitla a
9.	32 = DF at which WFdegrees for at which water freezes
10.	18 = H on a G C holes on a golf course
	90 = DinaRAdegrees in a radial aic
	200 = D for PG in M. dollars for passing go in Monoply
13.	8 = Son a SS <u>Sides on a stopsign</u>
	3 = BM (SHTR)Blind mice (See how they run)
	4 = Q in a G Puarts in a gallow
16.	24 = H in a D. hours in a day
1 <b>7</b> .	1 = W on a U wheel or a uniciple
	4 = Din a PC Ovorsin a passenger Car?
19.	57 = HV
	11 = Pon a CT. players on a criket team
21.	1000 = W that a P is W words that a picture in worth
	29 = D in Fin a LYdarp in february in a leap year
23.	64 = Son a C B Squaresion a crecker board
24.	40 = D and N of the GF Days & Tighto of the areat flood

### SAFETY TIPS FOR WEATHER SPOTTERS

Weather spotters may be exposed to a number of hazardous situations while observing severe weather. The number and extent of these potentially dangerous situations can be greatly minimized by following a few safety rules, and by basically using common sense.

- Always have a safe place nearby to protect yourself from wind or hail.
- If you use your vehicle for weather spotting, avoid parking in flood prone areas. Don't get cut off from an escape route. Similarly, do not park where it may become muddy, and your vehicle will get stuck.
- Moving water is very powerful. It only takes a slight current to push a car off a road.
- Do not stand outside during periods of excessive lightning.
   Remain inside a building or your vehicle for protection from lightning.
- A vehicle may provide a safe haven from lightning, but it offers no protection from a tornado. It may be difficult to drive away from a tornado that is moving toward you at a speed of 30 to 70 miles per hour. If a tornado is sighted, and you can not escape from its path, leave your vehicle and seek protective shelter elsewhere, perhaps in an interior first floor room of a well constructed building if one is nearby. Even if only a drainage ditch is available for you to take shelter in, it is safer than your vehicle in a tornado.
- Watch for downed power lines. Do not drive or walk over them.
- One final safety tip that you may or may not want to try is used by an experienced weather spotter in Tulsa. This spotter sprays the spark plug wires and distributor cap of his vehicle with plastic ignition spray to prevent wind blown water from getting into his vehicle's ignition system and causing the engine to die. Another spotter who tried this method was not happy with the sticky mess that eventually accumulated on his vehicle's spark plug wires.

This installment will conclude the excellent series by Allen. We appreciate him making it available for us.

### CONCLUSION

The material presented in this guidebook was prepared to be of practical use in weather spotting activities. Many different aspects of severe weather and weather spotting are discussed. This guidebook emphasizes the practical side of weather spotting rather than the meteorological aspects of severe weather. All weather spotters are urged to attend the various seminars on severe weather sponsored by the National Weather Service in their area.

Spotters should also be familiar with the procedures of their local weather net and spotting organization. The suggested procedures contained in this guidebook may not apply to all local circumstances, and the procedures set by each local net or spotter organization should take precedence over those in this guidebook.

Finally, weather spotters should not take any unnecessary risks. Safety is a very important aspect of weather spotting. The information provided by weather spotting activities often saves lives and minimizes injuries to the public, but no one expects weather spotters to risk their lives in the performance of their spotting duties.

### ESTIMATING WIND SPEED

widespread, many roofs and windows

damaged

MPH	BEAUFORT WIND SPEED EVALUATION CHART	
0	Smoke rises vertically	
1-3	Direction of wind shown by smoke drift but not by wind vanes	
4-7	Wind felt on face, leaves rustle, ordinary wind vane moved by wind	
8-12	Leaves and small twigs in motion. light flags extended	ESTIMATING HAIL SIZE
13-18	Dust raised, loose paper raised, small branches move	Pea size1/4 inch
19-24	Small leafy trees sway, crested wavelets form on lakes or ponds	Marble size1/2 inch
25-31	Large branches in motion, whistling in telephone wires or link fences	Dime size3/4 inch Quarter Size1 inch
32-38	Whole trees in motion, inconvenience felt walking against the wind	Golfball size1 3/4 inches
39-46	Twigs break off trees, impedes progress walking	Baseball Size2 3/4 inches
47-54	Slight structural damage (chimneys, shingles)	
55~63	Trees uprooted, widespread structural damage, mainly roofs	
64-72	Damage to structures major and	