		DELTA A	MATEUR RADIO CI SPARKS Web Edition	LUB	
PRESIDENT'S CORNER		W 4 I	Web Edition 82 MEMPHIS, TN 38175-0482 / VOL. 13 / S REPEATER SYSTEM 147.36, 224.42, 443.2 & 145.03 Packet	JULY 2001	
than that, but that is what is relevant to the We might consider the FCC rules as the M must master the mores and to keep the tick. What about the folkways? There is a good good operating tips. It is our responsibility.	ogy Class at Memphis State, two ese ramblings. ORES of ham radio and the operatet, must obey them – as several had bit of written material about propy, as amateur radio operators, to us	ating procedures, band plans, enave found out after getting to keep operating procedures and hase our best operating procedure	c., the FOLKWAYS. To obtain a ham ticket, now Mr. Hollingsworth "up close and person ow to avoid being a "lid." Unfortunately, lots when we are on the air, whether on VHF or	, one nal!" s of us don't even read the instruction man r HF. It is also our responsibility to make	ocial customs of a society. There is a bit more to it the social customs of a society. There is a bit more to it the social customs of a society. There is a bit more to it the social customs of a society. There is a bit more to it the social customs of a society. There is a bit more to it the social customs of a society. There is a bit more to it the social customs of a society.
Anybody interested in starting some Speci it looks to be of good quality. Back in the building them. Another SIG might be one dealing with an This is being written on Thursday night be lot. 73, K4TTA SIREN TESTING UPDATE	al Interest Groups (SIGS)? Ben, lold days shortly after we stopped tennas. This is one area that does	KU4AW, has brought up the noted keeping our station logs on and the station logs on a station log station logs on a station logs on a station logs on a station logs on a station log station logs on a station log station lo	tone tablets and started using paper!! – many and is a crucial item in any station. There is	RAMSEY kits. I picked one up at Dayton y of the ham rigs were kits, and it was a loos just something special in making a contact	(haven't had a chance to put it together yet!), and of of fun and an excellent learning experience of with an antenna you built yourself! Yet we fellowship and camaraderie, and learned a
monitor. We need a lot of help in the Sout Who knows, the siren that has problems m	hern and Southeastern and Midtovight be in your neighborhood or the Lakeland, and one in Millington	wn Areas of our city and count he neighborhood of someone y	This effort will go a long way to save lives ou love dearly. We found two sirens today the	s in our community.	picking out a site that you would be willing to en affected? Thanks to all of you who have tested
Julie Galle, weather.com People in Siren, Wis., are mourning the des "Basically everything is leveled," said Manbuildings were damaged or destroyed in the	rsha Lawson, who lives in nearby se storm. Howe said many people e Siren tornado was one of severa	Hertel and went to Siren to hel may not have had much warni	o after the storm. "There are cars either sma g about the tornado because <mark>the city's torna</mark>	shed into buildings or upside down." Sirer <mark>do siren was not operating</mark> . It was struck l	ling to the Burnett County Sheriff's Department. The Fire Chief Tom Howe estimated that at least 100 by lightning in late April or May and scheduled to other reports of serious damage or injuries.
it off. Without them I would have been a some The culinary skills of Lance, N4GMT, were food and also helped compliment the effort	ship without a rudder. The a big hit with everyone who should be	owed up to operate and enjoy the all across the country. It taugh	is year's dinner. I'd like to thank everyone to the a lot about myself and even more about	who brought side dishes and desserts. You	elping me put this year's program together and pull ar efforts ensured that we had a wide assortment of make it successful. At the publication time of this
"cooler" spot that we could find was down copy (25 characters in a row correct). Nobe The following is taken from the ARRL Ne * A Farnsworth character speed in the 13-1 since 1989). Consistent with the new stands software for a 15 WPM character speed se	at the end of the hallway. Everythody left without a CSCE!!! Our now weletter: As you are aware, on Juli 15 WPM range for routine Morse lards, ARRL VEC is using 15 WP tting.	ning else had to be about 90 plumbers increased by 5 new Gely 1, 2001, new Morse code excode exams is required (rather M characters as its Farnsworth)		ad we administered 14 elements. Of those sators. Look out Field Day!! In with all VECs. These new Morse code of used the same with all vectors.	e arrive for the session that evening. The only were passed including a CW exam on perfect exam standards will include:
* A reminder that every Morse code examinate but if the first review is failed the second record to the Morse exam audio frequency range. These standards were adopted by the National Standards.	inee has two (2) means to pass a ceview must be conducted. will be within 1000-700 Hz for reconal Conference of VECs at their. Il occur with Extra tests changing	ode test. They are by either genutine exams. ARRL VEC will June 2000 Annual Meeting in on July 1, 2002, Technician ch	ting 7 of 10 fill-in-the-blanks answers corrected using 750 Hz. Settysburg PA. Sanging July 1, 2003, and General changing July 1.	et, or by getting 25-character-count in a rov	w solid copy. Either review can be conducted first,
Congratulations to the following: Carl Hastings Gary Howard Ralph Leon James Montgomery William Ruben Donald Toussaint	KB5SWB KG4NKL KG4NKK KG4OCX KB4SAO KG4OCZ	General General General Technician General General General			
John Vanzandt See you July 10th. Respectfully Submitted, Joan KN4PM ARRL VE Liaison kn4pm@arrl.net	KG4OCY KG4OCY	Technician			
VICE DIRECTOR'S NOTES			your junque! Don't miss the opportunity to be aying that everyone will have had a safe Fiel		be a very popular meeting in the past.
It is my hopes that my efforts were viewed. On the HR 817/S 549 Spectrum Protection. The ARRL is monitoring this very closely. As an ARRL member, vote for your favoring that month. You can cast your vote over	as a positive outlook and someoned bill, there is an attachment, which to make sure this does not affect to the QST article each month for the er the web. Annual Board of Directors meeting	ne's life maybe stirred in a differ th directs the U.S. Secretary of mobile amateur radio operation QST Cover Plaque Award. The ang in Hartford, Connecticut, or	rent direction. Transportation to withhold highway funds from the current manner of the	rom states that permit people to use hand he nonth. The article receiving the majority v	presentations and even some talking on the radio. eld mobile telephones while operating a vehicle. otes will be awarded the QST Cover Plaque award our expectations at the board meeting.
Henry R. Leggette, WD4Q ARRL Vice Director, Delta Division AN ANTENNA FOR LOW FREQUE By Terry Cox – KB4KA Low Frequency (Big) Antenna - Small Spa	ace	anas for 80M and 160M are int	amous for being either large structures or at l	least requiring a lot of height. Many times	the room needed for a vertical installation's
ground radials is the killer. At my QTH the tower is scheduled for installation this year install slopers for those bands. A Possible Solution for You and Me? Recently I happened across a web page that	e 100' Rohn 45 tower has provided and will support WARC band and the July 1998 issue of the Yohigh, guyed, aluminum mast, traj	ed an adequate mounting struct tennas, etc. I still need someth ankee Clipper Contest Club's a pped vertical antenna for 40M,	ewsletter Scuttlebutt. Inside was an article be 80M and 160M that is sectionalized so it will	2', a 5L20 at 100', a 5L15 at 70' and a 6L1 as on the Rohn tower at 40' and 70' precluby Jeff Briggs-K1ZM titled "The Battle Cr	the room needed for a vertical installation's 10 at 40'. An old Easy-Way 60' crank-up/fold-over de any easy attempt to shunt feed the tower or reek 'Trapper' Construction Details". The original na was built as a loaner antenna to support
wave vertical on 40M, as a loaded ¼ wave should be tunable to 3.5, 7.0 and 1.83Mhz The Scuttlebutt article describes construction making the lower trap for 30M because I have a solution of the solution of	e vertical on 80M and as a loaded at almost 1:1 by adjusting segments on of the wire version in detail and ave no other antenna plans for the drunning by next month I'll give	We wave inverted L on 160M. Something the wave inverted L on 160M. Something 75M and 40 and I am in the process of building the band.	6 or more 66' radials are needed for ground and M Phone will require a tuner. The advantage g one now. Below is a rough sketch of what	radials, or you can use raised radials, if that e of a vertical antenna of course is the low tit will look like. As I already have beam	works. The antenna operates as a full-sized ¼ at will work for you space wise. Once in place, it takeoff angle that provides good DX possibilities. coverage for 40M, I'm toying with the idea of uded. Maybe there is a low band antenna in your
Scuttlebutt Article on Battle Creek Trappe	*	807.pdf			
DON'T FORGET THE MAGIC IN YOUR RADIO By Bruce Campbell, KG4HLZ					
start out by calculating the seconds in a ye MHz oscillator cycled once a second, then then one second of time on our 146.82 MHz What follows is a list of this calculation fo Frequency - Years 1.9 MHz - 0.06 3.65 MHz - 0.11	ar. 60 seconds in a minute, 60 mi a second would have to last an er Iz repeater would run for 146.82/	nutes in an hour, 24 hours in a ntire year. Now lets have some 31.536 = 4.65 years. Our 443.		= 31,536,000 seconds in a year. Put anothenuch	st is this? Lets put things into perspective. Lets er way, if we stretched out time to where a 31.536
7.16 MHz - 0.23 10.13 MHz - 0.32 14.18 MHz - 0.45 18.10 MHz - 0.57 21.20 MHz - 0.67 24.92 MHz - 0.79 28.85 MHz - 0.91 51.95 MHz - 1.64 145.99 MHz - 4.63 223.49 MHz - 7.09					
435.00 MHz - 13.79 915.00 MHz - 29.01 1270 MHz - 40.27 2350 MHz - 47.51 2420 MHz - 76.74 3400 MHz - 107.81 5787 MHz - 183.52 10 GHz - 317.10 Well it goes on from here. The last entry in	n the ARRL Band Plan is 300GH:	z = 9512.94 Years! Now that's	fast!!!!		
*	•	•	• 6	•	es and NO RAIN!), and a good time was had by
all. Thanks to all who helped make it such 73, Ken, K4DIT	a good event We'll have a full re	eport with pictures in the next	ssue. In the meantime, puzzle over the picture	re below.	
		XX71			
approached the planned attitude, ground co	ontrollers successfully activated th	ler way for a slight shift in orbi	<u>e</u>	raise the satellite's orbit at perigeethe po elemetry, the ammonia heater, flow-rate co	osition nearest Earthby about 200 km. As AO-40 ontroller, valves and pressure indicators seem to
not been fully deployed, no electric curren transmitter will be turned off during the tes long as four hours. AMSAT-NA President "a mysterious force" that alters the satellite	t was applied to the arc. Plans call st to save power, so all telemetry we Robin Haighton, VE3FRH, has says attitude when it comes through AMSAT-DL Web site, <a href="http://www.http://www.ntm.ntm.ntm.ntm.ntm.ntm.ntm.ntm.ntm.ntm</td><td>I for additional cold firings of twill be logged in the IHU-2's maid the arcjet firings will not signerigee. One possible theory,</td><td>ne arcjet. The next out-gassing will occur wh
emory and downloaded later. uelzow says the</td><td>nen the spacecraft reaches apogee again. It tat if the hour-long out-gassing works succeped that a slightly higher perigee for AO-4 by the current sunspot cycle peak is influence.</td><td>essfully, then it will be extendedpossibly to as 0 will eliminate the effects of what he described as</td></tr><tr><td>SPEED AND APPLICATIONS. The book</td><td>digital modes for Amateur Radio. addresses setting up higher speed</td><td>I packet links. The links higher</td><td></td><td>and UHF allow for faster data and message</td><td>put. The book is called PACKET: SPEED, MORE e transfer. High speed links can be used on point to by. The ARRL website for publications is</td></tr><tr><td>James Butler KB4LJV AMATEUR HARDWARE UPDATI One of the most needed accessories used v used. This month's project is the ADAPTE</td><td>when operating our radios are adap
R IDENTIFIER. This is merely a</td><td>method of keeping track of pl</td><td>gs to identify their function. The male part of</td><td>of the adapter is easy because the number of</td><td>adapters, and audio plug adapters are commonly of conductors and size can be seen. The female part used rub-on letters on mine to designate whether</td></tr><tr><td>they are mono or stereo on the input. This</td><td>allows me to carry them eeded for hookup. You can use le</td><td>_</td><td>•</td><td>•</td><td>my adapters at the meeting to show and answer</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>K4TTA (Extra) Tom Richardson 386-6268 KA4BLL (Gen) Ned Savage 363-9607 nss</td><td>k4tta@arrl.net (1,3,4,6,8,9,13,14
avage@juno.com (1,5,8,14, MAR</td><td>)</td><td>o be added to the Elmer list please contact A</td><td>Arlene at aa5gx@aol.com or 385-0995.				
ARES/RACES, net control, traffic handlin KB4LJV (Extra) James Butler 294-2540 (2 KD4NOQ (Adv) David Campbell 388-616 KU4AW (Extra) Ben Troughton 372-8031 N9ACQ (Extra) Bill Kuechler 368-0532 WA 21OC (Cam) Carre Blindler 204-528	2,7,9,11,13,14) 66 <u>kd4noq@juno.com</u> (1,2,3,5,9,1 <u>bktrough@mem.quik.com</u> (2,4,8) <u>vkuechl1@midsouth.rr.com</u> (1,8,1)	3)	·)		
WA2IQC (Gen) Gary Blinckmann 794-528 WA4MJM (Extra) Bill Hancock 853-7192 WM5Q (Extra) Paul Cline 385-0995 wm56 K4DIT (Gen) Ken Gregg 853-7384 k4dit@ W4GMM (Extra) Ham Hilliard 372-2337 Ecodes:	billwa4mjm@aol.com (1,2,8, emq@arrl.net (7,8,10,14, RF safety, equarrl.net (4,6,8,11)	ergency communications, ARI spread spectrum, trouble shoot	S,MARS) ng, soldering, electromagnetic compatibility	, CFR47 rules/regs.)	
 Antennas APRS Contesting CW Operating Direction Finding(fox hunting) 6. DXing Experimenting/Circuits/etc. 8HF Phone Packet Repeater Operation QRP Satellite 	_				
13. RTTY 14. VHF CONTEST CALENDAR Here are some of the contests coming up in IARU HF World Championship. July 14-1					
FISTS CW Summer Sprint, sponsored by ICQ WW VHF Contest, sponsored by CQ Nwww.cq-amateur-radio.com/vhfcontest.htm Six Club Six-Meter Sprint, sponsored by the Georgia QSO Party, sponsored by SECC at North American QSO Party, RTTY, sponsored	Magazine, from 1800Z July 14 unnl. he Six Club, 2300Z July 21 to 040 and SEDXC. Two periods: 1800Z	til 2100Z July 15. 6 and 2 metersonly. 6rr July 21 to 0359Z July 22 and 1	rs. questions@cqww.com ; at.com/contest.htm 400Z July 22 to 2359Z July 22. secc.contest	ting.com/	
RSGB Islands-On-The-Air Contest, sponsor SPECIAL EVENT STATIONS Antwerp, Belgium: Union Belge des Amat Marc Domen, ON7SS, Ferdinand Coosem	teurs, OS4OSA, 0000Z July 1 to 2 ansstratt 32, B-2600 Berchem (Ar	to 1200Z July 29. 80 40 20 15 2359Z July 12, celebrating the ntwerpen), Belgium. uly 7 to 2400Z July 8, celebrat	10 meters, phone and CW. www.g4tsh.dem coastal station OSA on all bands and modes.	QSL.	
14.265 21.365 28.465. QSL. Naturist Ama Akron, OH: Pioneer Amateur Radio Fellov 14.270 21.370 28.370. QSL. Pioneer Amat Quincy, MA: USS Salem Radio Club, K1U Oshkosh, WI: Fox Cities ARC, W9ZL, 130	teur Radio Club, PO Box 200812 wship, KB8ZAM, 1400Z July 14 teur Radio Fellowship Inc, 2324 M JSN, 1330Z July 21 to 1900Z July 00Z July 27 to 2200Z July 29, dur	, Austin, TX 78720-0812. to 2200Z July 15, during Akromanchester Rd, Akron, OH 443 y 22, during the 5th Museum String the Experimental Aircraft	l North American Nude Awareness Celebrat l's Lighter Than Air Convention and Exhibiti 14 hips On The Air Weekend. 7.260 14.260 18.1 Association Airventure Fly-In. 28.345 14.245	ion. 7.270 160 21.360. QSL. Robert Callahan, W1QV	VT, 56 Acorn St, Scituate, MA 02066.
14.265 21.365. Donald E Perry, WQ8J, 96	, W8AL, 1300Z July 27 to 2400Z 8 Culverne Ave NW, Massillon, C	July 29, for the annual Profess OH 44647.	onal Football Hall of Fame Festival. 7.265 page on the internet at: www.arrl.org/contests July 10	s/months/july.html	
			CLUB MEETING 7365 HWY. 70 BARTLETT, TN ING STARTS AT 7:00 PM		
to bring two forms of ident	tification the original	esting session. Regis	xisting licenses or CSCE's yo	nd testing begins promptly ou might have. Please be or	at 6:00p.m. Please remember n time for registration, as you ub meeting. Call Joan Thorne
366-9722, if special testing	O	quired.	4BS REPEATER SYSTEM 146.82 net 8:00 PM 107.2 pl 147.36 tone = 107.2 pl	Living the Cl	James Dente Liiviiit
			224.42 = 107.2 pl 443.20 patch, 107.2 pl 145.03 packet / bbs (temporarily off the air)		
	VE Liaison Joan Thorne, KN4PM 737-5795 joant@mem.net	Membership Chairperson Ben Barth, AF4TV Eloise Barth, AF4TW eloiseb@aol.com	Other Important Contacts ns		
Tom Richardson	Vice President	<u>tacox@co</u> <u>bktrough</u> (bellsouth.net		
Whit Crowley Freddy Bratton Ken Gregg Gary Blinkman Arlene Cline Bill Hancock	Dir. of TrainingDir. of PublicationsDir. of ProgramsDir. of Meetings & Spe		©lycos.com cl.net nidsouth.rr.com aol.com		
Kathy Troughton					