		LTA AMATEUR RADIO CLUB
		SPARKS Web Edition
	SPARKS P	P.O. BOX 750482 MEMPHIS, TN 38175-0482 / VOL. 13 / APRIL 1999 W 4 B S R E P E A T E R S Y S T E M 146.82, 147.36, 224.42, 443.2 & 145.03 Packet
it was being dismantled and that we'd have repeater. Once we had determined where we know what condition it would be in. Then	e to find a new home for the 146.82 we were going to put the repeater, we were faced	at's the state that Delta Amateur Radio Club was in a couple of months ago. First we learned that the WKNO tower had been sold, then we learned that with another problem, "what about hard-line." We weren't sure we would be able to get our hard-line from the existing tower, or if we did, we didn't d the story goes on from there.
the city was going to paint this tower. The the City of Bartlett, they not only painted to much as got a speck of paint on my truck, they were setting things up I walked across the tower and told him I wasn't in good hu	last time this task was undertaken by he water tower, they painted my house and my ca my car, or my house. On the day that s the street to talk to one of the men and found ou mor now that they were doing it again. wo black strands of hard-line running down each	ny of you know that Kathy and I live across the street from a water tower in Bartlett. About a month ago we received a letter in the mail indicating that are. Not only that, they painted the car three times. So as you might expect, I was fighting mad and ready to take the City of Bartlett to court if they so that he worked for the Water Department of Bartlett. I gave him this hard-luck story about my house and car being painted the last time they painted a side of ladder that ascends the tower. Like any amateur radio operator, my mind focused in on the hard-line, and the painting of my house and truck
me Dr. Jeckle and Mr. Hyde. I very politely the tower. When I looked up, not only did tower ladder, but I saw two antennas and whesitate, I said yes and yes. He then proceed 800MHz system, this equipment was useless	ly asked the man from the Water Department what I see the hard-line affixed to the what looked like two sections and a cap of Rohn 2 eded to show me where a repeater had been stored ass.	the planned to do with the hard-line. He mentioned that they were going to throw away the hard-line and any of the other radio equipment that was on 5 tower. Before I could say anything, I think the gentleman I was talking to read my mind, and asked me if I wanted the antennas and the tower. I didn't d and informed me that they had taken it to the city garage and were going to put it in the city auction. He indicated that since Bartlett had gone to ey were definitely a thing of the past. I asked this very nice city employee would the City of Bartlett consider donating the repeater to Delta Amateur
Well, today is Tuesday, March 23rd, and I that he had been given approval to give us So, Delta Amateur Radio Club is now the J	ristmas Parade, and most importantly that we were called him up before going to work this morning. the repeater. He was in the process of clearing it proud owners of approximately 300 feet of 7/8" h	e a non-profit organization. He told me that he didn't have any problem with us getting the repeater but that he would have to check with his boss. I was fully expecting him to say that the city was unable to donate this piece of equipment. But to my surprise, he told me just the opposite, he told me off the books and would notify me when we could pick it up. ard-line, two antennas (both resonant in the 150 MHz area), and a VHF repeater. I am not certain what we can do with the antennas, by this I mean, can odifications the repeater can be used by us
Needless to say, I have had numerous inquuse at any of our repeater sites. I'm sure the line. To answer anyone who might be asking	nere are a number of members out there that woul ng that question right now, we're just going to ha	line. At this time we are simply collecting it and storing it. The board needs to decide what should be done with the excess, the hard-line that we don't d welcome the opportunity to buy some of this hard-line, however, I think an amateur radio club can never be too poor when it comes to owning hard-
Well, that's it for this month. Don't forget See you at the April meeting. 73, Ben, KU4AW	that if you have any radio gear that you want to g	get rid of, this next month's meeting is going to be the auction. Bring it to the meeting and list a price. If someone buys it, you and the club benefit.
significant amount of money with little effe	• 11	ly sent me information from his company on who to send a fund raising letter to. If we multiply that times 100, we may have a chance of making a
Dick Cookenham's idea, booking travel resignificant amount. We will have more new Lastly, please continue to think about easy	servations through his company with Delta Club rews on that as details become available. ways to earn some money. Let me know! We sti	receiving the commissions seems to have been well received. Again, it will still take all of our participation to work, or at least to be able to earn a still may have a tremendous need for a lot of cash, depending on how the repeater move/repair goes. If we don't have significant efforts in obtaining this want to continue to have the best repeater and club in the Mid-South!
Kurt Schropp, KU4NH Vice President SECRETARY'S REPORT The following is a list of home who have re-	oicined the newlys of those belonging to the EDIEN	NDI IEST DEDE ATED IN TOWN.
Charles Flowers, WA4OWI Brenda Stauffer, KE4MKK (my apologies, Eugene Kays, KA5ALN, his wife Sally, K Ken Stewart, KD4EFO	ejoined the ranks of those belonging to the FRIEN, I forgot to include her with her husband's renewand E4VCN en, KD4LGL, his three children Adam, KE4EYQ	al last month)
Frank Bratt, N4LPE Terry McNatt, N4RES Steve Greer, N4SG, his wife Claire, KE4Z Steve Muir, KF4IVY and better late than never Ben Troughton, KU4AW, and me too, Kath		
Our new members are: Richard Page, WB4ZWV Kenneth Johnson, KB0ZTX Jim Barnes, N4YOK Leon Utley, N5XLT Joe James, KD4TCL		
Jeff Crum, KB5SFV Give them a friendly hello when you hear to This brings our membership count to 250 l can bring them to the April Auction. That See you all at the April meeting, 73.	icensed hams. Not bad, but I know each one of u	is knows at least two other hams who have not sent in their renewals. All it takes is a gentle (or maybe not so gentle!) reminder to do so. Or maybe you
Kathy, KE4UYU		
		APRIL 13 CLUB MEETING 7365 HWY. 70
	Amate	BARTLETT, TN MEETING STARTS AT 7:00 PM eur Radio and Electronic Equipment Auction
checkbooks. Kurt, KU4NH, will be in cha	rge of the auction with help from various	re supposed to know how to communicate! ANYWAY, the April Auction will be held at the April meeting, so bring your "junque," bucks, and us and hope to have a good representation from them.
Minimum bids may be established by the s	seller on any item. Payment is cash or check at tinags." All proceeds from the Brown Bags will go	of those items brought and sold by the members of that club. me of sale. to the club whose member brought it. Put something related to ham radio and/or computers and worth at least five dollars in a brown bag, box, gunny
Let's try to find out how fast Kurt can reall 73, K4TTA	y talk by bringing too many items to get auctione	d off in one night! The more the merrier.
		VE TESTING: ion. Registration begins at 5:30p.m. and testing begins promptly at 6:00p.m. Please remember s of any existing licenses or CSCE's you might have. Please be on time for registration, as you
will not be allowed to enter		.m., so our volunteer VE team can finish in time to attend the club meeting. Call Joan Thorne
With Field Day fast approaching, you'll need Support Activity Mid-South, Millington. This will be a great design of the support of the suppor	ed to brush up on your operating skills. Tom, K4 Tentative times are 10:00 - 16:00 but you ry run before Field Day. Give Tom a call or Ema	beak. My thanks to Regina, KF4IGS, for all of her hard work. TTA, has several operating opportunities planned for just this. One of which will be a Special Events Station on June 12th at the Navy Base, Navy il him at K4TTA@arrl.net. Training is a continuing process - make your best better and your better best. nexperienced, are needed. Have you ever wanted to learn about packet, Amateur TV, satellites, DX hints or what ever? Our club has a wealth of talent
in just about all facets of Amateur Radio. you would like to see being taught.	Please let me know what subjects trol operators. I would like to build a cadre of qu	alified net control operators that could be called upon to fill in if needed. If you are interested in becoming a qualified net control operator on a regular
Dick K3ORS@arrl.net Is Y2K Bugging You? Are you tired of hearing about the Y2K bu	g? It's kinda getting old to me too, but it's someth	ning for us to be concerned about until after the first of next year.
affected. Memphis and Shelby County EMA is conc	eerned about the problem as to how it may affect of	at their home PC's may be affected too. However, it won't be as bad as how some of the businesses, public utilities and emergency services could be city and county services and their respective radio systems. Therefore, they have requested that volunteer amateur radio operators man all city fire functioning as needed. The days planned at this point are Dec. 30, 31 and Jan. 1, 1999. In order to accomplish this feat, we will need approximately
Look for more updates in monthly column Tommy, KD4TJO CQ FIELD DAY FROM WHISKEY I	s in SPARKS by Rob Ennis, KD4SKT. Rob is RA	ACES officer for Memphis and Shelby County.
going to co-ordinate logistics and I will att would like to thank all thirty-six folks who HF CW - KI4I HF phone - K4NF, AA0AB, & AA5N	empt to co-ordinate operations. We	W counterpart) if Field Day goes as well as it's started! I'd like to begin by thanking Dick, K3ORS, for accepting the co-chairman position. Dick is ave volunteered to be Station Captains. This year's Captains are:
NOVICE/TECH - KF4QFW & KD4TJO SITE - KF4EWO & KA4ACD PUBLICITY - KA5IJP & KF4ZGJ LOGGING - KC5YIX FOOD - KG4BVK KG4ALR will be Aide de' Camp to K4TT	A and K3ORS.	
An additional source of points we are look Club that DOES NOT OPERATE one of the contact the VHF station on 146.52 or 146.4	ing to get this year is on VHF. We plan to have a ne W4BS field day stations to 49 simplex during the FD period. KF4GNB and I	e not yet signed up for FD, give me a call on the air, on the landline or email me at K4TTA@arrl.net. 2-meter FM station going throughout the contest with a collinear ground plane antenna up at least 75 feet. We would like for EVERYBODY in Delta KF4GNC will be calling (landline) during the FD period to urge further participation. ounced) so plan to come on out and join the weary crew of overnight operators.
I want to thank everybody for the willing of it. 73, K4TTA	ess, support and enthusiasm that have been shown	n. We have a chance this year for a really big score and I'd like to see us in the top ten stations in Class 2A. With everybody's continued support, we'll do
This is also a great event for new amateurs	to get a feel for public service work.	s for the March of Dimes WalkAmerica on Saturday, April 24. Many of you have helped in the past and I am counting on your support again this year. es about 10 amateurs, but unfortunately is also an early morning event. It is held at Edmund Orgill Park in Millington More on this one in next month's
Thanks in advance, Tommy, KD4TJO	or those of you who are willing to assist with these	e worthy public service projects.
		s we have been receiving here at the ARRL VEC, and no doubt you are getting them as well. To help you and help us, here are the answers we have been
A - The answer we are supplying is that the received some 2300 plus comments (which follow over a several month (if not a year of the several month).	they are no doubt working on reviewing). We estor more) period. Remember, changes to the licens	tter? will announce their determination. The FCC deadline for input was just 60 days ago (January 15th), and according to the FCC web site they have timate (best guess) that it may be Fall to Winter 1999, or later, before more is known from FCCand changes that might be implemented, if any, would be and therefore exam structure, will most likely require a change to the question pools. Such pool changes/updates will take several months to do over a series of months), and finally implemented. From the announced revisions in the pools, to exam room test booklet changes, could take 8 or more
Q - I just passed my license exams. How to A - Depending on VE team processing, may be appreciate the fast turnaround afforded	l by many VE teams in mailing their packets the s 999 (in general following the decrease in overall	call sign via the Internet or by mail? 2-3 business days), the advice we offer is about ten days from test date until internet posting. Add 7-10 days after that for FCC printing and mailing. ame day, or within a couple of days. Once the mail gets around to delivering your packets to us, our turnaround is presently two to four business days. exam test elements being administered over the past two to three yearsbut not necessarily in test sessions given or VEs served), our processing
This session of March 9th I shipped FedEx	on March 10th which was received at ARRL on GNB, Don KJ4PO, and Francis WA2ZYN for hel	3 days to 8 days. Normally I have in the past I had a session on Tuesday - Send it by FedEx on Wednesday and the results posted on Friday or Saturday. March 12th at 0945. The posting of this session however did not take place until March 19th, so patience is needed. Iping at the last testing session. Without the additional VE Members there would not be a Team to hold these sessions. Though the VE Team seems to
	Any and all VE Team Members that would like to ents of which 7 were passed.	o help at the sessions you DO NOT have to wait to be called walk in members are graciously and gratefully accepted.
Robert Jamison, KG4CMA Ralph Trammell, KF4QFW Larry Ashkenaz, KG4CMB Tech Looking forward to the April session. 73,	Plus	
Joan KN4PM VE Liaison		W4BS REPEATER SYSTEM 146.82 net 8:00 PM
		147.36 tone = 107.2 (BACK ON THE AIR AT A TEMPORARY LOCATION) 224.42 1.25 m reptr BACK ON THE AIR
Items of Interest		443.20 patch, 107.2 145.03 packet / bbs
I thought that the following articles might * Ham Trader Yellow Sheets QRT: After 3 the last edition of the Yellow Sheets. "It has	8 years in business, the Ham Trader Yellow Shee as been increasingly difficult to cost that we always have in the past," said a state	ts will cease publication. The twice-monthly classified publication is being absorbed into the Amateur Radio Trader, according to an announcement in ment from Founder and Editor Al Brand, and Publishers Dave and Barbara Brand Wixon. Yellow Sheets subscribers will automatically get an Amateur
* Special Canadian call sign: The call sign	XL3D has been assigned for use on the 25th ann Canadian Territory of Nunavut, VY0, comes into	iversary of the Ontario DX Association for the period March 25 to April 25, 1999RAC o effect on April 1, 1999. To reflect this new addition, Nunavut will become a separate multiplier in the two RAC Contests, commencing with the RAC
Joan, KN4PM Calling the Police?	the police by autopatch, cell phone or at home. I	Have you noticed the new automated answering system that they have now. Sometimes you can't wait for the polite little lady to finish talking. When
she begins, just press #1#1 and it will bypa human. If you're on the patch remember to Tommy, KD4TJO PSK31: First of a New Breed of HF D	ass her and take you straight to a real live be key up when pressing #1#1.	Tave you noticed the new automated answering system that they have now. Sometimes you can't wait for the point inthe lady to minsh talking. When
effective digital mode. Based on an idea be "product" by Peter Martinez, G3PLX. Any The objective was to develop a "keyboard details here, but Peter was able to "squeeze	y SP9VRC, it was developed into a yone with HF privileges can get in on this one! to keyboard" mode operating at about 50 wpm, sie" it into a bandwidth of 31 Hz.	iced something new. It sounds almost like a dead carrier, but has kind of a "warble" to it. It's probably PSK31 a new, easy, inexpensive, and very imilar to RTTY, but far more bandwidth-efficient. An RTTY signal occupies about 250 Hz bandwidth (180 Hz shift plus sidebands). I won't go into the
[To put this in perspective, a CW signal at much stronger 170-Hz-shift FSK signal. He with a few watts, something RTTY is hard! So what's it take to give this mode a try? If PSK31 web site (http://aintel.bi.ehu.es/psk source code available for the braver program.	20 wpm occupies about 50 Hz.] PSK31 also supplians are literally working the world by known for. By the way, the ARRL has made supplied by the less than you think! You need a PC 31.html). Peter has even made the ammer types among us. I won't go into technical	ports the entire ASCII character set. Successful PSK31 QSOs have been reported while actually operating between the mark and space frequencies of a ure that it is legal for US hams, and one of your QSOs may very well be W1AW. C with a sound card, a stable SSB transceiver, a couple of cables, and a couple of resistors. The software is free (yes, it's freeware, not shareware) at the details here, but I strongly suggest that you download one of the .zip files (probably the "Windows Soundblaster" version), and read through the help you really need to have before going on the air. There is also a DOS version, but I don't recommend it it's missing some really useful features.
There's also one for you Linux fans, courted Setup is easy. Cable the receive audio from Note that you're generating a PSK (phase-SSB signal; the SSB transmitter's balanced	esy of DL9RDZ. And there's a PSK31 Internet remains a pour transceiver into your sound card, cable the shift-keyed) signal, not an a modulator is merely used to translate a PSK aud	
on your PC. On the other hand, drift is dead operating this mode. Also, care must be taken a spectrum analyzer. Makes it really easy you can barely hear it. Also makes it easy resistive attenuator to get the audio down to	adly turn the rig on way ahead of ken not to overdrive the transmit audio input on y to spot a PSK31 signal, even when to spot somebody overdriving their transmitter, so "microphonic proportions." In some	HERTZ. Uh-oh, most of our rigs tune in 10 Hz increments. Not to worry, the program allows you to tune the receiver in software, using the arrow keys your transceiver – failure to do so results is broad signals. Incidentally, tuning is easily accomplished using a "waterfall" display on the PC – effectively o keep it clean or you'll hear about it. Typically, sound cards are run at about 25% of full output to avoid clipping, and are followed by about a 100:1 e radio. Most use VOX to key the transmitter, but a PTT output is available if needed (some auxiliary audio inputs bypass the VOX circuitry). It's
My setup came up and ran the first time I to Recommended calling frequencies for PSK		o, 14070.15, 21080.15, and 28120. [The 10-meter frequency was recently changed to allow Novice and Tech-Plus licensees in the US to participate.] t probably won't exceed a couple of dollars. OK, maybe ten bucks if you have an empty junk box and have to go out and buy all the connectors, wire,
	up to your receiver, and listen around. You'll be s	urprised how easy this is.
cigarette lighter plug. The unit is small (ap perfect way to keep the HT hooked up at h	rox 3.5" by 6" by 7") and offers a	pply. The unit is the RS-L series. These units have a built in cigarette lighter receptacle. This makes hookups easy for HT and mobiles with your current 4 amps depending on your needs. This is plenty of power for HTs but check you owner's manual on your mobile to determine power requirements. If m Astron.
AMATEUR HARDWARE UPDATI Many Amateurs build up their own electro	nic circuits for various projects. Transistors, resis	tors, and voltage regulators have one thing in common. In some applications they can produce excess heat which must be removed. This is done by taking our own heat sinks we can save money and design heat sinks to let our projects run cooler which means they will run longer.
of heat sinks that can be easily made. Hole heat sinks with a small paper punch for the SEE YOU AT THE MEETING James Butler	s can be made in the homemade	ff and cutting down one side with tin snips you can make flat aluminum which can be cut to make up different heat sinks. The drawing shows some types the meeting to show and answer questions on for those who wish to build up their own.
KB4LJV		
TRAVELING??		
Before you make travel arrangements for the Club a substantial return on every commission it receives. Te plan is simple, when you are ready to tralso fax your request to 901-261-2611 giving	sion, booked by our club members, avel call 800-432-6801 or 901-261-2600, tell the	e, reserve a car, hotel or fly to see your grandkids consider this. Ideal Travel Concepts, a local travel agency, has agreed to give the Delta Amateur Radio agent you are a member of the Delta Amateur Radio Club, tell them your PIN Number is 416307 and tell the agent what you are looking for. You may
your name and phone number.		for Dick, N3ORS (formerly WA2CPY.) You may E-mail him at idealTRVL@aol.com for queries and quotes only, no direct reservations are accepted by
Ben, KU4AW a check for \$60 (\$5x12 mon Dan is a life member of Delta Club and is o	oths) to go towards the fundraising of the club.	eting minutes, Dan answered Kurt's request for all members to donate \$5 per month to the club to go towards our fundraising efforts. Dan presented and make a donation of \$5/month. Life memberships are a good way for the club to get quick cash for a project and it's also good for the member,
providing they plan to be around for 10+ y members of which 57 receive a newsletter year just to send SPARKS to these 57 life in Tommy, KD4TJO	ears. But after the money is spent for the project.	, the club then has to spend money for things like mailing SPARKS and providing other club services to the life member. As an example, we have 81 life newsletter (printing + postage), are approximately \$525.00 per
CONTEST CALENDAR Here are a few of the contests coming up in Apr. 12 VHF/UHF Spring Sprints 7pm-11pm local time 144 MHz - Apr. 12 222 MHz - Apr. 20	n the next few weeks	
222 MHz - Apr. 20 432 MHz - Apr. 28 QRP to the Field - April 24 1600-2400z - CW HF QRP only For more information on current contests p www.arrl.org/contests/months/apr.html	please refer to the ARRL website at:	
	Field Day Chairman Tom Richardson, K4TTA 386-6268	Other Important Contacts VE Liaison Joan Thorne, KN4PM 366-9722
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