

DELTA AMATEUR RADIO CLUB

SPARKS

P.O. BOX 750482 MEMPHIS, TN 38175-0482 / VOL. 17 / JULY, 2005



Welcome
to the

Delta Amateur Radio Club!

Visit our home on the web at: <http://www.deltacub.org>

W4BS
REPEATER
SYSTEM

146.82, 147.36,
224.42, & 443.2

JULY 2005 CLUB MEETING

DATE: July 12, 2005 (2nd Tuesday - be there)
PLACE: Ellendale Church Of Christ, 7365 Highway 70,
Memphis, Tn. (2 miles east of Hwy. 64-Stage Rd.)
TIME: 7:00 PM

PROGRAM:

VE TESTING: Don't forget the monthly Volunteer Examiner testing session. Registration begins at 5:30 P.M. and testing begins promptly at 6:00 P.M. Please remember to bring **two forms of identification** and **copies of any existing licenses or CSCE's** you might have. The ARRL FEC exam application is \$14. Please be on time for registration, as you will not be allowed to enter the testing session after 6:00 p.m. This is to allow our volunteer VE team to finish in time to attend the club meeting. For more VE testing information contact...

Joan Thorne, KN4PM, VEC
Phone: 901-737-5795
E-mail: joanthorne@bellsouth.net

PRESIDENT'S CORNER

To all of the Delta Amateur Radio Club Members:

Delta Amateur Radio Club has had another successful and fun Field Day. About 35 to 50 people came by the site during the event. A BIG THANK YOU to all those who volunteered their time and/or equipment for the event. One of the visitors was N4NBC, Paul Luke, a former Memphis Area Amateur, who now works as the Public Affairs Manager for FEMA in Washington, DC. Paul stopped by on his way through town. He did the same last year, so the visit is becoming an annual event for him. It was hot, but the rain held off until after we were almost completely packed up and ready to go. Hugh, WB4SLI, was our chef for the annual Saturday Night Dinner. Thanks Hugh, the Burgers were great! Thanks to KE4GYR, Alex, who took our ten ARRL messages.

Please Remember: Deadline for Reports and Articles for the next issue of SPARKS is Friday, July 29th. All articles MUST be in to me by the deadline in order to be published in the next issue. Please forward all articles and items of interest to:

paulsonrj@bellsouth.net

On another note, I want to thank the Sheffields, KK4D and KI4DIL, for volunteering their church's facilities for the June meeting, as our regular meeting location had a space conflict. WE WILL BE BACK AT OUR NORMAL MEETING LOCATION THIS MONTH.

I know that the Days of Summer are long and hot, but I hope you all can find time to come to the JULY Meeting.

NED KA4BLL

DARC BOARD MEETING June 7, 2005

KA4BLL-Ned Savage-called the meeting to order at 7:25 p.m. KK4D-Darrell, KI4DIL-Lisa, KD4TJO-Tommy, K4KCU-Roger and N2LAZ-Dean were present.

He asked for a report on the tower trailer from KK4D-Darrell. Darrell advised he would check on its progress.

Old Business:

KA4BLL-Ned advised the board that N4GMT-Lance's brother-in-law is holding an antenna for the club and it needs to be picked up. The board discussed picking it up as soon as possible.

The Board unanimously voted to accept KI4KDR-Emmett Ward as a new member.

KA4BLL-Ned adjourned the meeting at 7:45 p.m.

Respectfully submitted by,
KI4DIL-Lisa Sheffield
DARC Secretary

DARC MEMBERSHIP MEETING June 14, 2005

KA4BLL-Ned Savage called for the introductions of the membership present. He then called for a reading of the Secretary's minutes. WB4CHH-Nina made a motion to accept the minutes as printed. WA4KHN-Tony Brignole seconded.

KA4BLL-Ned then called for a reading of the Treasurer's report. KC4SXT-Bill motioned to accept it as printed in SPARKS and WA4OVO-Joe seconded.

Old Business:

A prototype of club roster was presented and it was decided there were some additions that needed to be made to it before presenting to the membership.

New Business:

KU4AW-Ben gave a report on field day. He advised that there would be four stations and who would be in charge of each station.

KI4DIL- Lisa made a motion to SPARKS articles to K4KCU-Roger by the evening of the Board meeting so that SPARKS could be available to the membership online by the Friday after the Board meeting. The membership

unanimously voted to accept.

KA4BLL-Ned advised the membership of a midnight bike ride and asked for volunteers from the membership.

K4KCU-Roger Paulson won the door prize and the meeting was adjourned at 8:13 p.m.

Respectfully submitted by,
KI4DIL-Lisa Sheffield
DARC Secretary

FROM THE ARRL WEBPAGE

PRESIDENT BUSH SENDS GREETINGS TO FIELD DAY 2005 PARTICIPANTS

President George W. Bush has sent greetings from the White House to everyone participating in ARRL Field Day 2005.

"I send greetings to those celebrating the annual Field Day for Amateur Radio, hosted by the American Radio Relay League. Across our country, radio plays a vital role in relaying important information to the public and emergency service personnel in times of need," the president said.

"By providing emergency communications at the federal, state, and local level, licensed Amateur Radio operators help first responders and law enforcement officials save lives and make our country safer. Your efforts help ensure the right assistance gets to the right people at the right time. I

appreciate all ham operators who give their time and energy to help make our citizens more secure. Your good work reflects the spirit of America and contributes to a culture of responsibility and citizenship that strengthens our nation. Laura and I send our best wishes."

An annual exercise aimed at developing skills to meet the challenges of emergency preparedness as well as to acquaint the general public with the capabilities of Amateur Radio, ARRL Field Day takes place this year on Saturday and Sunday, June 25-26. Stations throughout the Americas may participate.

AMATEUR RADIO
EMERGENCY
COMMUNICATION FOCUS OF
WORLD CONFERENCE

Tampere, Finland, played host June 13-14 to the first Global Amateur Radio Emergency Communications Conference (GAREC 2005). Participants from 17 countries and representatives of all three International Amateur Radio Union (IARU) regions gathered to discuss and exchange information on the role of Amateur Radio in emergency communication. A conference statement summarized the value of Amateur Radio to emergency communication worldwide.

"The Amateur Radio Service has the proven capabilities and capacities to serve the international community through its global

network of infrastructure-independent stations," the statement concluded. "Such stations are not only most likely to withstand the physical impact of disasters, but their flexibility furthermore avoids the overload all public networks inevitably experience in the aftermath of disasters."

The statement also pointed to the Amateur Service as "an invaluable resource of skilled operators, trained and experienced in maintaining communications under the most adverse conditions." It further concluded that it's essential "to ensure that this resource can be fully utilized in the service of emergency and disaster response providers." Conferees agreed as well that the Amateur Service needs access to "appropriate portions of the shared and limited resource of the radio frequency spectrum."

The IARU has submitted the summary as an input document to the World Summit on the Information Society (WSIS), set to take place in Tunisia this November.

Representing the IARU and chairing GAREC 2005 was Hans Zimmermann, HB9AQS, the IARU's International Coordinator for Emergency Communications. Past ARRL President Rod Stafford, W6ROD, represented IARU in his capacity as Region 2 President and the League in his capacity as International Affairs Vice President.

Major topics included cooperation between radio amateurs and institutional emergency response providers on the national level, and an exchange of experiences from recent events. Presentations showed how hams support emergency responders as skilled volunteer telecommunication operators as well as via their own global networks.

Conferees also talked over ways to improve and facilitate the work of emergency communication networks. Participants agreed on the desirability of establishing a "Center of Activity Frequency" for emergency traffic on 80, 40, 20, 17 and 15 meters. SRAL, the IARU member-society for Finland and the host of GAREC 2005 will forward a proposal to that effect to the IARU for its consideration. This could happen during the IARU Region 1 Conference this September. GAREC-2005 did not put forth specific center-of-activity frequencies, but the proposal did recommend calling them "The Tampere Frequencies."

Because of Tampere's association with the history of emergency and disaster communication, the city's name has become nearly synonymous with emergency telecommunication. Among signal events, an experts' conference there in 1991 adopted the Tampere Declaration on Disaster Communications. In 1998, the Intergovernmental Conference on Emergency Telecommunications (ICET-98) adopted the Tampere

Convention on the Provision of Telecommunication Resources for Disaster Mitigation and Relief Operations. Effective as of January 8, 2005, the convention largely eliminates roadblocks to moving telecommunications personnel and equipment across international borders into and within disaster-stricken areas. Tampere has hosted several related conferences on emergency telecommunication as well. To maintain the momentum, plans already are being discussed for a second global conference in 2006.

A GAREC 2005 summary is available on the IARU Web site www.iaru.org/emergency/summary.html.

INTERNATIONAL STUDENTS,
QUEBEC PRIMARY
SCHOOLERS QUIZ
ASTRONAUT VIA HAM RADIO

Members of the Amateur Radio Club (HB9ZIS) at Zurich International School (ZIS) in Switzerland, spoke directly June 10 with US Astronaut John Phillips, KE5DRY, on the International Space Station. Youngsters at École de la Source (The Source Primary School) in Mascouche, Quebec, had a similar opportunity a week later. The Amateur Radio on the International Space Station (ARISS) program arranged both school group contacts with NAISS. Phillips told a ZIS student that the change in gravity has not affected his appetite but does seem to make him less thirsty.

"It did not affect my eating habits at all, but it did affect my thirst," Phillips responded. "Your body doesn't need as much fluid up here because it doesn't have to work as hard to push the blood to your head. So I probably will drink less water, and my body has less fluid in it."

As for which planet he'd like to visit, Phillips told ZIS students that Mars would be his first choice. "The only planet other than Earth that it's practical to visit during this century, I believe, would be Mars, so I guess I'd like to go there," Phillips said. "But right now I'd really like to visit Earth now and then," he added, eliciting laughter from the students.

ARISS Mentor Peter Kofler, IN3GHZ, reports that Paul Schreier, HB9DST/AA1MI served as the technical director and contact coordinator. Bruno Zimmerman, HB9WAH, and radio club members set up a satellite station and antennas, and Zimmerman served as the control operator. They also established an ATV link to the assembly hall where the entire student body could follow along on a big screen. At the school ham shack itself--at the ZIS middle school campus in Horgen--the audience consisted of some 50 onlookers, including students, teachers, parents and school board members. All told, the students at ZIS had all 20 of their questions asked and answered.

Several media outlets, including the DRS national TV and radio and Die Neue Züricher Zeitung newspaper, covered the event.

The following Friday, June 17, youngsters at Quebec's École de la Source enjoyed the fruits of a three-year wait on the ARISS school group application list. In 2002, fifth and sixth grade students took on the space contact project, which current students continued.

One youngster wanted to know how long it takes for the ISS crew members to put on their spacesuits for a spacewalk. Phillips responded that while it takes about an hour to suit up and make required safety checks, it's a few hours more before the crew exits the spacecraft. Two hours are expended exhausting the airlock, he explained.

"But we take a lot longer than this because we have to protect against a problem called 'the bends,' which is what divers get when the nitrogen in their blood turns into bubbles," Phillips continued. "So we sit inside the suit for three hours or so breathing oxygen to get the nitrogen out--so in reality it takes maybe four or five hours from the time we start putting on the suits until we actually go outside."

Replying to another question, Phillips said it's not really known if space travel would be dangerous for a pregnant woman because one never has traveled into space. He said female members of NASA's

astronaut corps do not even engage in training while pregnant.

Members of the Club Radioamateur Laval-Laurentide, VE2CRL, worked with ARISS Mentor Steve McFarlane, VE3TBD, on the technical aspects of the event. Students asked 15 questions during the approximately six-minute contact. Students released a roaring "Merci!" (Thanks!) at signoff.

ARISS-Canada's Daniel Lamoureux, VE2KA, said a direct video link from the contact site tied into the gymnasium so an audience of some 400 pupils, parents and guests could look on. A representative from the Canadian Space Agency talked to the students before the QSO and translated Phillips' answers into French. Teacher Robert Ménard coordinated the project.

Two national TV networks and one newspaper sent reporters to cover the event. Local dignitaries and school board members also were present.

ARISS <<http://www.rac.ca/ariss/>> is an international educational outreach with US participation by NASA, ARRL and AMSAT.

HAM-ASTRONAUT TESTIFIES BEFORE CONGRESS FROM SPACE NASA

International Space Station Science Officer John Phillips, KE5DRY, made history June 14 by becoming the first person to testify before

Congress while in orbit. The Expedition 11 flight engineer appeared via satellite before the House Science Committee's Subcommittee on Space and Aeronautics, chaired by Rep Ken Calvert (R-CA). Phillips answered questions from subcommittee members about what it's like to live and work in space, focusing on the space station's role in preparing humans for longer-duration missions outlined in NASA's Vision for Space Exploration.

"We constantly learn new lessons up here," Phillips said, while traveling through space at five miles per second. "The experiences we gather will enable us to establish a long-term station on the moon and to go on to Mars."

Two other astronauts, Peggy Whitson, KC5ZTD--who served on the ISS Expedition 5 crew in 2002, and Expedition 9 crew member Mike Fincke, KE5AIT, testified in person before the subcommittee.

For most of the lawmakers, their interview of Phillips marked their first opportunity to speak directly with a space traveler on orbit. In response to members' questions, Phillips talked about the tremendous view from 220 miles up, floated around the ISS and talked about the hard work he's doing.

"The most important thing up here is that we *are* the experiment; we are learning how to fly in space," Phillips told the subcommittee.

For more information about the ISS, visit the NASA Space Station Web site <http://www.nasa.gov/mission_pages/station/main/index.html>.--NASA

US SENATE VERSION OF AMATEUR RADIO SPECTRUM PROTECTION ACT OF 2005 INTRODUCED

A US Senate version of the Amateur Radio Spectrum Protection Act of 2005 has been introduced in the 109th Congress with bipartisan support. Sen Michael Crapo of Idaho sponsored the measure, S 1236, on June 14. The wording of the bill is identical to the House version, HR 691, introduced earlier this year by Rep Michael Bilirakis of Florida. Joining Crapo as cosponsors of the Senate bill were Senators Christopher Bond of Missouri, Max Baucus and Conrad Burns of Montana, and Daniel Akaka of Hawaii. The bill has been referred to the US Senate Commerce, Science and Transportation Committee of which Burns is a member. ARRL CEO David Sumner, K1ZZ, said the League is pleased that Crapo has agreed to once again sponsor this legislation at ARRL's urging.

"We are grateful for Sen Crapo's demonstration of support by introducing the Amateur Radio Spectrum Protection Act of 2005," Sumner said. "His sponsorship of this bill shows his appreciation for the value and utility of Amateur

Radio to the US public, especially in times of emergency."

Like previous versions of the proposal, the House and Senate measures would require the FCC to provide "equivalent replacement spectrum" to the Amateur Radio and Amateur-Satellite services in the event of reallocation to other services of primary amateur spectrum or the diminution of secondary amateur spectrum. The bill also would cover additional allocations within Amateur Radio bands that "would substantially reduce" their utility to Amateur Service licensees.

In a letter this week, ARRL President Jim Haynie, W5JBP, also thanked Crapo for his continued support of the Spectrum Protection Act. "As you know, this legislation is vital for ensuring that the Amateur Radio Service, the only 100 percent fail-safe emergency communication capability, remains a viable public safety option," Haynie said, adding that the League also appreciates the work of Crapo's staff in getting the bill into play in the new Congress. "The ARRL looks forward to working with you on successfully passing this legislation during the 109th Congress," he said.

The legislation references Amateur Radio's role in providing "voluntary, noncommercial radio service, particularly emergency communications," and it points out that hams have "consistently and reliably" provided communication support in the event of emergencies

and disasters including tornadoes and hurricanes, chemical spills, forest fires and rail accidents. As the measure notes, FCC actions already have led to the loss of at least 107 MHz of spectrum to radio amateurs.

Efforts will continue--now in both chambers of Congress--to attract additional cosponsors for S 1236 and HR 691. The League encourages its members to urge their congressional representatives and senators to sign aboard. A sample letter for HR 691 <<http://www.arrrl.org/govrelations/hr-691-sample-letter.html>> and a sample letter for S 1236 <<http://www.arrrl.org/announce/regulatory/s-1236/>>--are available on the ARRL Web site for members to use as guides in writing their members of Congress to seek their support.

To expedite delivery, send all correspondence bound for Members of Congress--preferably as an attachment--to research.assistant@chwatco.com or fax it to 703-684-7594. The ARRL will bundle correspondence addressed to each Member of Congress for hand delivery.

HF SAVES THE DAY AFTER MOTOR HOME BREAKDOWN

Well outside cell phone and ham repeater range, ARRL member Bob Johnson, W7LRD, his wife and their two dogs found themselves May 6 in their motor home broken down "in the middle

of nowhere" 70 miles north of Las Vegas, Nevada. To the rescue came Johnson's trusty Icom IC-730 and some friendly fellow radio amateurs.

"I found Bruce, VA7BEB, on 20 meters, and he started getting my information to my insurance company for road service," Johnson recounts. But the propagation gods were not smiling. Enter Phil, W7PDZ, and Larry, KA0MZL. "Phil continued where Bruce left off, while Larry notified the Nevada Highway Patrol," Johnson continues. "The highway patrol showed up and took note of our situation. A tow truck out of Pahrump, Nevada, came and took us to an RV park across the street from an auto parts store!" The next day Johnson was able to pin down the problem--a failed ignition coil. He picked up and installed a new one, and he and his family were good to go. "Without the assistance and perseverance of these gentlemen, it would have been a very long day and possibly night," he says.

PACKET UPDATE

One of the newest areas of the hobby is QRP. These radios are made to be very energy efficient, low power, and portable. Many of the lower end kits do not have the luxury of a digital display. If we use a multi turn pot for the tuning you cannot even use the knob position to figure out where you are on the band. Dave Benson of Small Wonder Labs has a nice solution to this problem. It is a frequency counter that is small enough to fit inside of the QRP rig. It gives the frequency at the push of a button in morse code. The **FREQ-MITE** is available from Dave for about \$20.00 and is in kit form. The unit works well as I have just put my first one in a 20 meter QRP rig. Morse Code speed can be set to 26 WPM or 13 WPM. The counter can also be set to any offset for the VFO and for normal and reverse tuning so it will work with about any rig. The audio from the counter is tied into the audio chain of the radio so the frequency comes right out the speaker just like received signals. I like this unit and at his price I will have to put these in other rigs. The **FREQ-MITE** information is at www.smallwonderlabs.com.

James Butler, KB4LJV

AMATEUR HARDWARE UPDATE

One of the problems we encounter is getting a good SWR for our radios feeding an antenna. In the old days with tube rigs we had a tune and load on the radio which helped out in this. Now with most transmitters being solid state they want to see that 50 ohm load so they do not cut back power or get damaged. This month's project is the **QRP L-TUNER**. I built it up in a surplus printer switcher case. I used a 365 MFD capacitor from an old radio and wound my own inductor. This configuration will let you match to a longwire antenna for portable or base operation. The vernier drive on the capacitor makes it a little easier to adjust. I painted it up in Heathkit colors to match my other Homebrew QRP equipment. For additional information on antenna tuner types check out the ARRL handbook.

James Butler, KB4LJV



July

2005

<i>Sun</i>	<i>Mon</i>	<i>Tue</i>	<i>Wed</i>	<i>Thu</i>	<i>Fri</i>	<i>Sat</i>
					1	2
3	4 Joseph, KE4JFN	5 Betsy, KD4KOM	6	7 MARA Club Meeting 7:00 PM Amanda Burnum	8 Sandra Joyce Rye	9
10 Pat, KC4SJD	11 Kay, KA4AEG	12 Delta Club Meeting 7:00 PM Harry, AF4RH	13	14	15 Nora, W4ZOR	16 Ben Montgomery
17 Richard, AI4BN Barry, KE4KAG Jerry, K4CMZ	18 Ray, AA4UK	19 Dean, N2LAZ	20 Joe, WA4OVO Marie, K4GMT	21 Bill, WA4MJM	22	23
24/31	25 Bill, W4NZP	26 Shelby Cty., ARES Meeting 6:45 PM Don, KA4EBU	27	28 Simon Montgomery	29	30

August

2005

<i>Sun</i>	<i>Mon</i>	<i>Tue</i>	<i>Wed</i>	<i>Thu</i>	<i>Fri</i>	<i>Sat</i>
	1 Dana, WI3B George, N3ISH	2	3	4 MARA Club Meeting 7:00 PM Vicki, KF4DJS	5	6
7	8 Heidi, KC4ZOU Leslie Moore	9 Delta Club Meeting 7:00 PM	10	11	12	13 Bill, KC4SXT
14	15	16 Norman, KA4AEF	17 Art, K4SHJ	18	19	20
21 David, KC5GGE =	22 Cornelia Richardson	23 Shelby Cty., ARES Meeting 6:45 PM Suresh, N9GSA	24 Scott, K5SJ	25	26	27
28 Rickard, W0SZP	29	30 David, KD4NOQ James, AG4KM	31 Rex, KB2WGP			



CONTEST CALENDAR

Here are some of the contests and special events coming up in the next few weeks...

IARU HF World Championship--from 1200Z Jul 9 to 1200Z Jul 10 (see Apr *QST*, p 102, or www.iaru.org/contest.html).

WRTC-Style Team Challenge--runs concurrently with IARU HF World

Championship. Two-operator teams follow WRTC-style rules in IARU Multi-Single category. For more information: www.wwdx.org/wrtcrule.htm

FISTS Summer Sprint--CW, from 1700Z-2100Z Jul 10 (see Feb *QST*, p 102, or www.fists.org).

QRP ARCI Summer Homebrew Sprint--CW, from 2000Z-2400Z Jul 10 (see Dec *QST*, p 85, or www.qrparci.org/contest.htm).

North American RTTY QSO Party--sponsored by the *National Contest Journal* from 1800Z Jul 16-0600Z Jul 17. Frequencies: 80-10 meters, 100 W max. For more

information: www.ncjweb.com.

CQ WW VHF Contest--all modes--sponsored by *CQ Magazine* from 1800Z Jul 16-2100Z Jul 17. Frequencies: 50 and 144 MHz bands, except 146.52 MHz (and other national simplex calling frequencies) and repeater frequencies. Please avoid the DX windows and international calling frequencies. For more information: www.cq-amateur-radio.com.

SEANET Contest--CW/SSB/DIGITAL, sponsored by the SEANET Convention, 1200Z Jul 16 - 1200Z Jul 17. Frequencies (MHz): CW - 3.525, 7.025, 14.025, 21.025, 28.025, SSB - 7.090, 14.220, 21.320, 28.320. For more information and list of SEANET countries: www.seanet2005.com/html/News.htm

The W4BS Elmer Shack

Please feel free to contact any of our ELMERS to help you enhance your amateur skills. Anyone wishing to be added to the Elmer list please contact Ned at ka4bll@arrl.net or 363-9607.

K4TTA (Extra) Tom Richardson 386-6268
ka4tta@arrl.net (1, 3, 4, 6, 8, 9, 13, 14, 15)

KA4BLL (Extra) Ned Savage 363-9607
ka4bll@arrl.net (1, 5, 8, 14, MARS, ARES/RACES, net control, traffic handling, emergency service)

KB4LJV (Extra) James Butler 294-2540
jbutler@bigriver.net (2, 7, 9, 11, 13, 14)

KD4NOQ (Adv) David Campbell 388-6166
kd4noq@bellsouth.net (1,2,3,5,9,10,12,14, slow scan TV, ATV minor)

KU4AW (Extra) Ben Troughton 372-8031
bktrough@mem.quik.net (2,4, 8, 15)

N9ACQ (Extra) Bill Kuechler 368-0532
wkuechl1@midsouth.rr.com (1, 8, 13)

WA2IQC (Gen) Gary Blinckmann 794-5289
garyblin@midsouth.rr.com (1, 7, 10, 14)

WA4MJM (Extra) Bill Hancock 853-7192
billwa4mjm@aol.com (1, 2, 8, emergency communications, ARES,MARS)

K4DIT (Extra) Ken Gregg 853-7384
kgregg@c-a-c.com (4, 6, 8, 11, 15)

W4GMM (Extra) Ham Hilliard 372-2337
hamh@bellsouth.net (All categories)

Codes:

1. Antennas
2. APRS
3. Contesting
4. CW Operating
5. Direction Finding (fox hunting)
6. DXing
7. Experimenting/Circuits/etc.
8. HF Phone
9. Packet
10. Repeater Operation
11. QRP
12. Satellite
13. RTTY
14. VHF
15. PSK31
16. Computer logging



CQC Great Colorado Gold Rush--CW--sponsored by the Coslorado QRP Club, from 2000Z-2200Z Jul 17. Frequencies: 20 meters only. For more information: www.cqc.org/contests.

Great Lakes Sweepstakes--Phone/CW/Digital, sponsored by the Michigan DX Association, from 0000Z Jul 23-2359Z Jul 24. Frequencies: 80-2 meters, including VHF FM (no repeater or satellite). For complete scoring and bonus point information: <http://mdxa1.org/glsweepsrules.html>.

Flight of the Bumblebees--CW--sponsored by the Adventure Radio Society, 1700Z-2100Z Jul 31. Bumblebees are low power portable stations that walk, bike or boat to their sites and sign "BB" after their calls. Frequencies (MHz): 7.040, 14.060, 21.060, 28.060. For more information: www.arsqrp.com/ars/pages/bumblebees/bb_rules.html.

RSGB Islands-On-The-Air Contest--CW/SSB--sponsored by the RSGB from 1200Z Jul 30-1200Z Jul 31. Frequencies: 80-10 meters. For more information: www.contesting.co.uk/hfcc/iota.shtml.

ARRL UHF Contest, 1800Z Aug 6-1800Z Aug 7 (see Jul *QST*, p 95).

North American QSO Party--CW, sponsored by the *National Contest Journal*, 1800Z Aug 6-0600Z Aug 7 (see Jan *QST*, p 102 or www.ncjweb.com).

Ten-Ten International Summer Phone QSO Party--sponsored by Ten-Ten International, 0001Z Aug 6-2359Z Aug 7, 10 meters only. Exchange: call, name, state and 10-10 number (if available). For more information: www.ten-ten.org.

European HF Championship--CW/SSB, sponsored by the Slovenian Contest Club, from 1200Z-2359Z Aug 6. EU to EU contacts only. Frequencies: 160-10 meters. For more information: <http://lea.hamradio.si/~scc/euhfc.html>.

TARA "Grid Dip" Contest--PSK and RTTY, sponsored by Troy ARA from 0000Z-2400Z Aug 6. Frequencies: 80-6 meters, work stations once per band, work Rovers again from new locators. For more information: www.n2ty.org/seasons/tara_grid_rules.html.

National Lighthouse-Lightship Weekend--all modes, sponsored by the Amateur Radio Lighthouse Society from 0001Z Aug 6-2359Z Aug 7. Frequencies (MHz): CW--1.830, 3.530, 7.030, 14.030, 21.030, 28.030; SSB--1.970, 3.970, 7.270, 14.270, 21.370, 28.370. For more information: <http://arlhs.com/>.

Worked All Europe DX Contest--CW, sponsored by the Deutscher ARC from 0000Z Aug 13-2359Z Aug 14, (phone is Sep 10-11; RTTY is Nov 12-13). Frequencies: 80-10 meters according to Region I band plan. For more information: www.waedc.de.

Maryland-DC QSO Party--CW/Phone, sponsored by the Antietam Radio Association, 1600Z Aug 13-0400Z Aug 14 and 1600Z-2359Z Aug 14. Frequencies (MHz): CW--

3.643, 7.060, 14.060, 21.060, 28.035, Phone--1.895, 3.920, 7.230, 14.270, 21.370, 28.370, VHF/UHF--50.150, 52.525, 144.15, 146.55, 146.580, 432.15, 446.000. For more information: www.w3cwc.org/rules.html.

ARRL 10 GHz and Up Contest, 0600 local Aug 20-2000 local Aug 21 (see p 91, this issue).

North American QSO Party--SSB, sponsored by the *National Contest Journal*, 1800Z Aug 20-0600Z Aug 21 (see Aug 6-7).

New Jersey QSO Party--CW/Phone, sponsored by Englewood ARA, 2000Z Aug 20-0700Z Aug 21 and 1300Z Aug 21-0200Z Aug 22. Frequencies (MHz): 1.810, 3.535, 7.035, 14.035, 21.100, 28.100, SSB--3.950, 7.235, 14.285, 21.355, 28.400, VHF/UHF 50-50.5 and 144-146 MHz. For more information: www.qsl.net/w2rj.

International Lighthouse and Lightship Weekend--CW/SSB/Digital, sponsored by ILLW from 0001Z Aug 20-2359Z Aug 21. Frequencies: CW--21 kHz above band edge; SSB--51 kHz above band edge. For more information: <http://illw.net/index.html>.

Ohio QSO Party--CW/SSB, sponsored by the Mad River Radio Club, 1600Z Aug 27 -0400Z Aug 28. Frequencies (MHz): CW--3.545, 7.045, 14.045, 21.045, 28.045; SSB--3.850, 7.225, 14.250, 21.300, and 28.450. For more information: www.oqp.us.

Hawaii QSO Party--CW/Phone/RTTY/PSK31, sponsored by the Koolau ARC, 0700Z Aug 27-2200Z Aug 28. Frequencies: 160-10 meters. For more information: www.karc.ushi_qso_party.html.

Kentucky QSO Party--CW/SSB/RTTY/PSK31, sponsored by Bullitt Amateur Radio Society from 1600Z Aug 28-0400Z Apr 29. Frequencies

(MHz): SSB: ± 20 kHz above General class band edge; CW: 3.55, 7.05, 14.05, 21.05 and 28.05. For more information: www.qsl.net/ky4ky/kyqsopartyrules.html.

YO-DX Contest--CW/SSB, sponsored by the Romanian Amateur Radio Federation (RARF), 1200Z Aug 27-1200Z Aug 28. Frequencies: 80-10 meters. For more information: www.hamradio.ro/contests/yodx_eng.htm.

Summer VHF/UHF QSO Party--SSB/CW/FM, sponsored by the Colorado QRP Club, from 1800Z-2100Z Aug 28. Frequencies: 6 m, 2 m and 70 cm, 5 W output maximum, use recognized simplex frequencies according to the ARRL band plan, do not use the national simplex frequencies of 146.52 or 446.000 MHz. For more information: www.cqc.org/contests/summer05.htm.

SPECIAL EVENTS

Jul 5-Jul 31, 1300Z-2100Z, Port Colborne, ON, Canada. Niagara Peninsula ARC, VE3WCD. Canal Days Marine Heritage Festival. 28.350 21.250 14.250 7.250. QSL. Doug Frame, VE3JDF, 895 Lakeshore Rd E, Port Colborne, ON, Canada L3K 5V3. www.nparc.on.ca

Jul 6-Jul 10, 1800Z-2400Z, Austin, TX. Naturist Amateur Radio Club, NU5DE. Nude Awareness Celebration/Nude Recreation Week. 28.465 21.365 14.265 7.265. QSL. Naturist Amateur Radio Club, PO Box 200812, Austin, TX 78720-0812. www.nu5de.org.

Jul 8-Jul 10, 1400Z-2359Z, Trenton, MI. Motor City Radio Club, W8MRM. 30th Annual Trenton Mid-Summer Festival. 14.244 14.044 7.244 7.044. Certificate. Motor City Radio Club, W8MRM, PO Box 337, Wyandotte, MI 48192. www.W8MRM.org.

Jul 8-Jul 10, 1800-0600 dailyZ-1800-0600Z, Salmon Arm, BC, Canada. Shuswap Amateur Radio Club, VA7C. Salmon Arm Centennial Celebration. 21.375 14.275 7.275 3.875. Certificate. Shuswap Amateur Radio Club, PO Box 2613, Salmon Arm, BC V1E 4R5.Canada. **www.jetstream.net/sarc.**

Jul 8-Jul 18, 1400Z-1800Z, Steamboat Lake State Park, CO. Castle Rock Repeater Group, K0CRG. New US Islands activation CO-12, grid DN60, Routt County. 14.260 14.030 7.260 3.960. QSL. Roger Krautkremer, K0YY, 41 Cedar Way, Evergreen, CO 80439. **www.crrg.org.**

Jul 9, 1800Z-2200Z, Los Alamos, NM. Los Alamos Amateur Radio Club, W5PDO. Earthwatch Institute Student Challenge Awards Program from Fenton Hill Observatory. 28.450 21.350 14.250. Certificate. Don Casperson, AA5PA, 1423 43rd St, Los Alamos, NM 87544.

Jul 9-Jul 10, 0000Z-2359Z, Hannibal, MO. Hannibal Amateur Radio Club, W0MTL/MM. National Tom Sawyer Days from the Mark Twain Riverboat. 14.259 7.258. Certificate. Robert G. Mitchell, 816 Long Dr, Quincy, IL 62305. **www.ewingmissouri.com/w0kem/.**

Jul 9-Jul 10, 0900Z-1600Z, Somers, NY. Peekskill Cortlandt Amateur Radio Association, W4H. 4H Fair at Muscote Farms. 21.310 14.275 7.255. QSL. W2NYW Peekskill Cortlandt Amateur Radio Association, PO Box 146, Crompond, NY 10517.

Jul 9-Jul 23. Lewis and Clark County, MT. Capital City Amateur Radio Club, K7L/C. 200th anniversary of Lewis and Clark "discovering" Lewis and Clark County, MT. SSB and CW: 25 kHz down from the top of each band;

PSK31. Certificate. Forrest Christian, AC7DE, 50 11th Ave, Helena, MT 59601-3642. County stations also signing /LC. **www.w7tck.org/lc.**

Jul 10, 1400Z-1900Z, Upton (Long Island), NY. National Weather Service Upton NY and Town of Babylon ARES, WX2OKX. Annual NWS OKX Open House, promoting the partnership between NWS and Amateur Radio in the Tri-State SKY-WARN Program. 28.320 21.320 14.320 7.250. Certificate. NOAA/NWS, Attn: WX2OKX, 175 Brookhaven Ave, Bldg NWS-1, Upton, NY 11973. **www.erh.noaa.gov/okx/Skywarn/openhouse05.html.**

Jul 10-Jul 21. Israel Amateur Radio Club, 17th Maccabiah Games. Israel Amateur Radio Club, PO Box 17600, Tel-Aviv, 61176 Israel. For complete information go to: **www.iarc.org/~4z4tl/Maccabiah17_main.htm.**

Jul 15-Jul 17, 1800Z-1200Z, Kane, PA. Kane Amateur Radio Operators, AA3GM. Celebrating the annual Kanesfest Festival. 21.355 14.255 7.255 3.875. Certificate. Kenneth T. Frankenbery, 5111 Glenwall Dr, Alquippa, PA 15001.

Jul 16, 1300Z-1900Z, Wapakoneta, OH. Reservoir Amateur Radio Association, K8QYL. Celebrating the anniversary of the landing on the moon. 14.250 7.260. Certificate. Tom Kaup, KA1UP, 421 Lewis Ave, St Henry, OH 45883.

Jul 16, 1300Z-2000Z, Chambersburg, PA. Cumberland Valley Amateur Radio Club, W3ACH. 50th Anniversary of the CVARC. 14.240 7.240 50.125 146.550. Certificate. Cumberland Valley ARC, PO Box 172, Chambersburg, PA 17201. **www.cvarc-pa.com.**

Jul 16-Jul 17, 0001Z-2359Z, Portland, OR. Oregon-Idaho DX Group, W7P. Museum Ships Weekend, from the Sternwheel Tug *Portland*. 28.360

28.039 21.360 21.039 14.260 14.039 7.260 7.039 3.860 3.539. QSL. via Buro, or to K7VAN, Box 12941, Salem, OR 97309. Info: **k7vv@msn.com.** Participating ships: **www.qsl.net/k1usn/event.html.**

Jul 16-Jul 17, 0001Z-2359Z, Quincy, MA. USS *Salem* Radio Club, K1USN. Museum Ship Worldwide Radio Event. 14.260 14.039 3.860 3.539. Certificate for working ten participating ships. Robert Callahan, 56 Acorn St, Scituate, MA 02066. **www.qsl.net/k1usn/event.html.**

Jul 16-Jul 17, 1200Z-0100Z, Mount Vernon, OH. Mount Vernon Amateur Radio Club, W8V. Mount Vernon, OH, Bicentennial Celebration. 14.260 7.260 3.860. QSL. Mike McCardel - Bicentennial, 23695 Bear Run Rd, Danville, OH 43014. **www.mvarc.net.**

Jul 16-Jul 17, 1400Z-1900Z, Jackson, MI. Cascades Amateur Radio Society, W8JXN. 23rd Annual Jackson Hot Air Jubilee. 14.260 7.250 3.890 145.05. QSL. CARS, PO Box 512, Jackson, MI 49204-0512. **www.w8jxn.org.**

Jul 16-Jul 17, 1400Z-2230Z, Baton Rouge, LA. USS *Kidd* ARC/Baton Rouge ARC, W5KID. Museum Ships Weekend Event. General class bands, 14.250 to 14.320; CW QRP subbands 28.060 21.060 14.060 10.106 7.040. QSL. W5KID, c/o USS *Kidd* Museum, 305 S River Rd, Baton Rouge, LA 70802. **www.lsu.edu/brarc/USS_Kidd.htm.**

Jul 17-Jul 18, 1700Z-0300Z, Disneyland, CA. WD6MM. Celebrating the Happiest Place on Earth, Disneyland's 50th. 28.350 21.350 14.250 7.250. Certificate. Archie Willis, W6LPJ, 9276 Borden Av, Sun Valley, CA 91352.

Jul 18-Jul 19, 1345Z-1630Z and 1900Z-2130Z daily, Randleman, NC, W1V. Victory Junction Children's

Camp. 2 10, 17, 20, 40, 80 m Echo-link. QSL. Bob Martin, W3LZX, 10603 Arron Ct S, Waldorf, MD 20603. home.comcast.net/~w3lzx/vjgaw1v.html.

Jul 19-Jul 23, 1200Z-2400Z, Fremont, MI. Newaygo County Emergency Communications Group, W1B. National Baby Food Festival. 14.265 7.264 3.965 146.470. Certificate. Mike Foster, 7937.E 36th St, Newaygo, MI 49337.

Jul 21-Jul 22, 2000Z-0200Z, Manchester, MI. Chelsea Amateur Radio Club, W8C. Manchester Chicken Broil - We 8 Chicken! 14.250. Certificate. WD8IEL Chelsea ARC, PO Box 43, Chelsea, MI 48118. kn8a@arri.net.

Jul 21-Jul 24, 1400Z-2100Z, Warren, OH. Warren Amateur Radio Association, W8P. 6th Annual Packard Museum Car Show. 28.450 14.260 7.260 3.860. Certificate. Gail Wells, KC8LRH, 708 Delaware SW, Warren, OH 44485.

Jul 23, 1400Z-2000Z, Williamsburg, VA. Williamsburg Area Amateur Radio Club, K4RC. Promote Colonial Williamsburg, Jamestown and Yorktown. 21.35 18.15 14.25 7.261. QSL. Larry Wheeler, 163 Lakewood Dr, Williamsburg, VA 23185.

Jul 23, 1500Z-2200Z, Saline, MI. ARROW Communications Association, W8PGW. Saline Railroad Depot Museum Open House. 14.260 14.040 7.260 7.040. QSL. ARROW Communications Association Inc, PO Box 1572, Ann Arbor, MI 48106. www.w8pgw.org.

Jul 23-Jul 24, 1800Z-2200Z, DeSmet, SD. Huron Amateur Radio Club and Lake Area Radio Klub, W0NOZ. Annual Little House on the Prairie Pageant. 21.365 14.265 7.265. Certificate. HARC, PO Box 205, Huron, SD 57350. www.huronarc.info.

Jul 23-Jul 25, 1200Z-0200Z, Springfield, OH. Independent Radio Association, K4H. Birthplace of the 4H Clubs of America. 21.370 14.265 7.235 3.865. QSL. Independent Radio Association, PO Box 523, Springfield, OH 45369.

Jul 25-Jul 31, 0000Z-0000Z, Tiffin, OH. Seneca Radio Club, W8ID. Celebrating the 2005 Seneca County Fair in Ohio. 14.275 7.275 3.860. Certificate. Seneca Radio Club—W8ID, c/o Fair Special Event 2005, 126 Hopewell Ave, Tiffin, OH 44883. www.w8id.com/SCF2005.

Jul 28-Jul 31, 1400Z-2100Z, Oshkosh, WI. Fox Cities Amateur Radio Club, Inc, W9ZL. EAA AirVenture 2005 Fly-In. 14.270 7.250 146.52 146.76. Certificate. Bernie Hengels, N9YMC, PO Box 5233, Appleton, WI 54912. www.fcarc.us.

Jul 30-Jul 31. Douglas, Isle of Man. Scarlett Point Radio Group and Isle of Man Business School, GB5MOB. Isle of Man's 175th Maritime Anniversary/Mutiny on the Bounty and Peter Heywood. All HF bands CW VHF UHF Echolink. Scarlett Point, 42 Close Rushen, Castletown, Isle of Man. www.scarlettpoint.com.

Aug 4-Aug 6, 2000Z-1800Z, Bolingbrook, IL. Antique Radio Club of Illinois, W9R. 25th Anniversary Radiofest. 14.255 21.355 28.455 146.97. QSL. James Novak, WA9FIH, 2335 South 2nd Ave, North Riverside, IL 60546-1308. www.antique-radios.org.

Aug 4-Aug 7, 0000Z-0500Z, Hannibal, MO. Hannibal Amateur Radio Club, K9P. Masters International Shooting Championship 20th Anniversary. 14.258 7.258. Certificate. Robert G. Mitchell, 816 Long Dr, Quincy, IL 62305. www.ewingmissouri.com/w0kem/.

Aug 5-Aug 7, 1500Z-0300Z, Indianapolis, IN. Indianapolis Motor

Speedway Amateur Radio Club, W9IMS. Brickyard 400 NASCAR Race. 21.340 14.240 7.240 3.840. QSL. Indianapolis Motor Speedway ARC, PO Box 18495, Indianapolis, IN 46218. www.w9ims.com.

Aug 5-Aug 7, 2100Z-0100Z, Alma, MI. Michigan Masonic Radio Club, K8M. Masonic Family and Community Festival. 14.270 7.270 145.580. Certificate. Benjamin Creech, K8LHR, 416 Sunset St, Plymouth, MI 48170. www.gl-mi.org.

Aug 5-Aug 8, 1400Z-0400Z, Canton, OH. Canton Amateur Radio Club, W8AL. Annual Pro-Football Hall of Fame Festival. 28.365 21.365 14.265 7.265. Certificate. Donald E. Perry, WQ8J, 968 Culver Ave NW, Massillon, OH 44647. www.w8al.org.

Aug 6-Aug 6, 1200Z-2000Z, Indianapolis, IN. Indianapolis Repeater Association, W9Z. Kids Special Event at Broad Ripple Hamfest. 28.350 21.330 14.280 7.250. Certificate. Steven Wendt, 9559 Neptune Dr, Indianapolis, IN 46229. All operators 18 and under.

Aug 6-Aug 6, 1400Z-1900Z, Townshend, VT. West River Radio Club, W1RRC. Grace Cottage Hospital Day. 14.270 7.270. QSL. John Borichevsky, POB 8087, Guilford, VT 05304. www.westriverradio.net.

Aug 6-Aug 7, 0001Z-1959Z, Bristol, ME. Lincoln County Amateur Radio Club, K1LX. National Lighthouse-Lightship Weekend from Pemaquid Lighthouse, US#278, ARLS#589. 14.250. Certificate. John Peters, K2LOT, 154 Boothbay Rd, Edgecomb, ME 04566.

Aug 6-Aug 7, 0001Z-2359Z, Gulf Coast, TX. Central Texas Contest Group, WA5DTK. Operation from multiple Texas lighthouses --NLLW. 14.270 14.030 21.370 7.030/7.060. QSL. Barry Brewer, 603 Broken Bow Dr, Round Rock, TX 78681.

Aug 6-Aug 7, 0001Z-2359Z, Port Hope, MI. Milford Amateur Radio Club, K8S. National Lighthouse/Lightship Weekend from Pointe Aux Barques Lighthouse. 28.370 21.370 14.270 7.270. Certificate. Gary I. Sklar, 7296 Green Farm Rd, West Bloomfield, MI 48322.

Aug 6-Aug 7, 1200Z-2359Z, St Augustine, FL. St Augustine Amateur Radio Society, N4AUG. LH 758 celebrating NA Lighthouse Activity. 14.270 14.030 7.265 7.030. QSL. SAARS, PO Box 860084, St Augustine, FL 32086. www.saars.net.

Aug 6-Aug 7, 1400Z-1600Z, Mathews County, VA. Middle Peninsula Amateur Radio Club, N4P. Commemorating New Point Comfort Lighthouse, USA-543. 21.360 14.260 7.260 3.960. QSL. William Sale, AE4RB, 6543 Belroi Rd, Gloucester, VA 23061. www.arlhs.net.

Aug 12-Aug 13, 1400Z-2100Z, Angle Inlet, MN. Northwest Angle Amateur Radio Club, NW0AA. Northern most club in contiguous 48 states. 21.350 14.240 7.200 3.960. QSL. Dan Whipple, 11726 Norway St NW, Coon Rapids, MN 55448. Aug 13, 0001Z-2355Z, Indianapolis, IN. Indianapolis Symphony Orchestra/Kenneth Bandy, W9O. Commemorating 75th anniversary of Indianapolis Orchestra. 14.275 7.260 21.360. QSL. Kenneth Bandy, 1405 S Bridgeport Rd, Indianapolis, IN 46231. <http://bandyrecording.com/W9O.htm>.

Aug 13, 1400Z-2100Z, Rush Springs, OK. W5PAA-FAA Aeronautical Center Amateur Radio Club, W5F. 2005 Rush Springs Watermelon Fest. 10-80 m CW/SSB. QSL. David Begue, K5FOZ, 2155 County Rd 1230, Tuttle, OK 73089-3112. www.W5PAA.org.

Aug 13-Aug 14, 1400Z-2200Z, Perry, OH. Lake County Amateur Radio Association, N8BC. Celebrating 27 years of public service in Lake County. 14.270 7.272 147.2100. Certificate. Dennis Brostek, KI8U, 7187 Maple St, Mentor, OH 44060. www.lcara.org.

Aug 13-Aug 14, 1400Z-2400Z daily, Window Rock, AZ. Navajo Amateur Radio Club, N7C. Navajo Code Talkers Day. 14.265 7.265. QSL. Herbert Goodluck, PO Box 3611, Window Rock, AZ 86515.

Aug 14, 1500Z-1800Z, Pikes Peak, CO. Colorado 14er Event Task Force, Various call signs. Colorado 14er Event--operating from summits of CO mountains. 14.260 147.42 147.45 446.00. QSL. Bob Witte, KONR, 21060 Capella Dr, Monument, CO 80132. www.14er.org.

Aug 19-Aug 28, 0000Z-2400Z, Lebanon, TN. Wilson Amateur Radio Club, W4C. Special Event Station from the Wilson County Fair. 28.320 21.320 14.320 7.265. QSL. Greg Tomerlin, K4KO, 1562 Walnut Grove Rd, Lebanon, TN 37090. www.wilsonarc.org.

Aug 20, 1100Z-2000Z, Hillsboro, TX. Lockheed Martin Recreation Association and Fannin County ARC, N5B. North Texas Balloon Project Launch #12. 14.282 7.220. QSL. Ed McGinley, W5ETM, PO Box 6215, Fort Worth, TX 76115. www.ntbp.org.

Aug 20-Aug 21, 0001Z-2359Z, Dunkirk Lighthouse, NY. Dunkirk Lighthouse--Lancaster ARC, W2SO. International Lighthouse Weekend. 28.450 21.350 14.250 7.250. Certificate. Lancaster ARC, 525 Pavement Rd, Lancaster, NY 14086. larc.hamgate.net.

Aug 20-Aug 21, 0000Z-2359Z, Eagle Harbor, MI. International Lighthouse/Lightship Weekend, K8E.

Lighthouse and two range lights. 14.275 14.030 7.275 7.030. Certificate. QSL via bureau or N8MR, 14071 Fairway, Livonia, MI 48154. www.kc8nah.com/Interests/illw05.htm.

Aug 20-Aug 21, 0001Z-2359Z, Newport, OR. Oregon-Idaho DX Group, N7L. International Lighthouse/Lightship Weekend, from Yaquina Bay Lighthouse, USA-906. 28.351 28.021 21.221 21.021 14.221 14.021 7.155 7.021 3.755 3.521. QSL. via Buro, or to K7VAN, Box 12941, Salem, OR 97309. Participating lighthouses: <http://arlhs.com>.

Aug 20-Aug 21, 1200Z-2359Z, St Augustine, FL. St Augustine Amateur Radio Society, N4AUG. LH 758 Celebrating ILLH Weekend. 14.270 14.030 7.265 7.030. QSL. SAARS, PO Box 860084, St Augustine, FL 32086. www.saars.net.

Aug 20-Aug 21, 1300Z-1600Z, Buffalo, NY. Western New York DX Association, K2L. International Lighthouse Weekend. 14.230 14.030 7.230 7.030. QSL. Bob Nadolny, WB2YQH, PO Box 73, Spring Brook, NY 14140. www.wnydxa.org.

Aug 20-Aug 21, 1300Z-2100Z, Sea Girt, NJ. North America DX Association and Neptune Radio Club, WR2DX. ILLW from Sea Girt Lighthouse. 14.260 7.260. QSL. NADXA, PO Box 357, Bradley Beach, NJ 07720.

Aug 20-Aug 21, 0001Z-2359Z, Rochester, NY. Brockport Amateur Radio Klub, N2VY. International Lighthouse/Lightship Weekend. 14.275. Certificate. Allen Skiles, N2VY, 1-A Burke Lane, Spencerport, NY 14559.

TENNESSEE NETS

Net Name	Freq.	UTC	Day
Tennessee CW Net	3635	0100	T-Su
Tennessee Slow CW Net	3682	0130	T-Su
Tennessee Early Morn Phone Net	3980	1145	M-F
Tennessee Morning Phone Net	3980	1245	M-F
Tennessee Morning Phone Net	3980	1400	Sa-Su
Tennessee Evening Phone Net	3980	0030	T-Su

AREA HAMFESTS OF INTEREST

Ozone ARC
 Slidell Municipal Auditorium
 Slidell, LA
 July 16, 2005

McMinn County Amateur Radio Club
 Athens Regional Park
 Athens, TN
 July 16, 2005

Ruston Swapfest/Tailgate Party
Piney Hills Amateur Radio Association
 504 West Texas 4
 Ruston, LA 71270
 July 23, 2005

Delta Amateur Radio Club

June 2005 Treasurers Report

Balance 5/27/2005	\$6482.25
<u>Expense</u>	
7/5 BellSouth	120.89
7/5 The University of Memphis	45.88
<u>Income</u>	
Dues	35.00
Balance 7/05/2005	\$6463.83

SPARKS is published monthly by the Delta Amateur Radio Club and is emailed to club members and other interested parties. All information published in this newsletter is provided as a service. While every effort is made to ensure accuracy, the Delta Amateur Radio Club and its officers assume no liability resulting from errors or omissions. All correspondence may be mailed to:

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