

# DELTA AMATEUR RADIO CLUB

# SPARKS

P.O. BOX 750482 MEMPHIS, TN 38175-0482 / VOL. 18 / JULY 2006



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 2006 CLUB MEETING

**DATE:** July 11, 2006 (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](mailto:joanthorne@bellsouth.net)

**Please Remember:** Deadline for Reports and Articles for the next issue of SPARKS is Friday, July 31st. 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](mailto:paulsonrj@bellsouth.net)

## PRESIDENT'S CORNER

I hope that everyone is having a good move into the summer. We have made it through 6 months already. With the summer comes some openings on 6m and 2m so don't miss them.

Thanks to David KD4NOQ for the regular ISS and Shuttle updates, I have been able to catch several passes and hope everybody gets a chance to do the same.

A Big Thanks goes to those that helped and came out to the Field Day event this year. I think we had a good showing with 5 stations - we operated a GOTA, HF Contest, PSK 31, CW and a Satellite/VHF station, all powered by generator and all but the GOTA in their own pop-up trailers. The GOTA was an open-air station under the canopy.

It looks like we were able to make about 800 contacts with the poor band conditions and we also got a couple of the bonus points.

There was also a VE test Session given during Field Day. Many thanks to Joan and the VE Team.

There has been little to no interest shown in the open Board positions. I announced that the VP and Treasurers position had been vacated and we needed to have a special election at the July meeting. Anybody that is interested in taking one of the positions please let myself know or any board member.

Stay tuned to the nightly traffic and information net on the 146.82 repeater for Club information and other updates.

I guess that's all for now, 73  
Darrell KK4D

### **DARC BOARD MEETING June 6, 2006**

KK4D-Darrell called the meeting to order at 7:00 pm. KD4TJO-Tommy, KE4DXN-Melinda, K4POM-Lisa, KG4OLG-John, K4KCU-Roger, N9GSA-Suresh, N2LAZ-Dean and KA4BLL-Ned were present.

K4POM-Lisa read the secretary's minutes to the board.

KE4DXN-Melinda gave the treasurer's report.

The board unanimously accepted both as presented.

KK4D-Darrell gave a report on the repeater situation to the board. He also advised the board of which

stations would be available for field day.

#### **Old Business:**

KG4OLG-John advised the board of his plans to have a class the night before field day with testing to take place the next day.

#### **New Business:**

The board voted on and accepted N4TFZ-Timothy Harris as a new member.

KD4TJO-Tommy and KE4DXN-Melinda gave their resignations. Tommy has taken a job in the Nashville area and will be moving from the Memphis area.

The board discussed that there would be a special election to fill the Vice President and Treasurer's positions.

N9GSA-Suresh requested permission from the board to hoop up to ECHO Link to test to see how it works. The board granted permission to him to test it and get back with the board on the results.

The meeting was adjourned at 8:15 pm.

Respectfully submitted by,  
K4POM-Lisa Sheffield  
DARC Secretary

### **DARC GENERAL MEMBERSHIP MEETING June 13, 2006**

KK4D-Darrell called the meeting

to order at 7:06 p.m. with the introduction of members and their guests. There were 36 members and 3 guests present.

He called for the membership to accept the minutes as printed in SPARKS if there were no objections. There being none, the minutes were accepted as printed in SPARKS.

KE4DXN-Melinda read the treasurer's report as printed in SPARKS. There were no objections and so were accepted as printed.

KK4D-Darrell and KA4BLL-Ned gave the VE report.

#### **Unfinished Business:**

KK4D-Darrell gave the members information on POD rental for a possible yard sale.

He also advised the members of where we stand with the repeaters and told them what eventually will be done to correct any problems.

There was no old business.

#### **New Business:**

KK4D-Darrell advised the membership of the P.O. Box change from Hickory Hill to the Bartlett post office.

He also advised the members of a special election to be held at the July meeting to replace KD4TJO-Tommy as Vice President and KE4DXN-Melinda as Treasurer.

KI4DR-Dave gave an update on field day. He called for a volunteer for the CW station and KI4I-Jim graciously agreed to run that station.

After a short break, Tommy and Melinda said their good byes to the group.

KI4NCT-Rob Hooper won the door prize and the meeting was adjourned at 8:30 p.m.

Respectfully submitted by:  
K4POM-Lisa Sheffield  
DARC Secretary

### NEW NET CONTROL ON THE AIR

This is a picture of Aaron KI4OTH (son of Aubrey KG4YZW) calling his first Delta Club net on Saturday, June 10th 2006 from the QTH of Bill Hudock (KB4SQV).



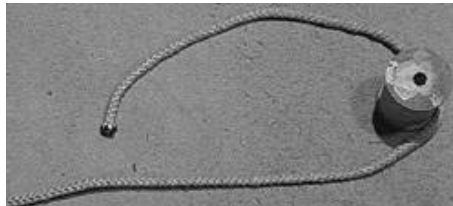
Aaron is a new ham and by all reports did a great job calling the net.

Aaron is nine years old and will be a fabulous asset to the Delta Club and to the amateur radio community .

### An Additional Useful Knot for Hams

June QST has an article of useful knots for us hams. There is one omission that is very important for guying or other areas where the knot must be adjustable and must hold fast. This knot is the tautline hitch. In the paragraphs below I will show how the knot should be tied.

Place a loop around the anchor and draw the free end back to the standing line



Cross the free end over the standing line.



Loop the free end over the standing line toward the anchor.



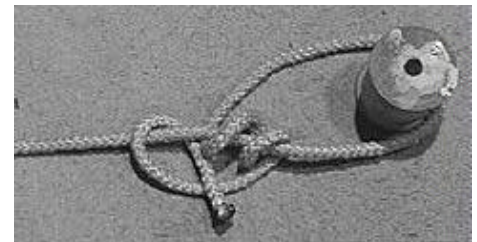
Loop the free end over the standingline, again.



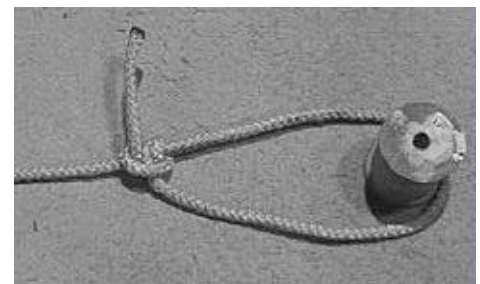
Bring the free above the two loops just formed.

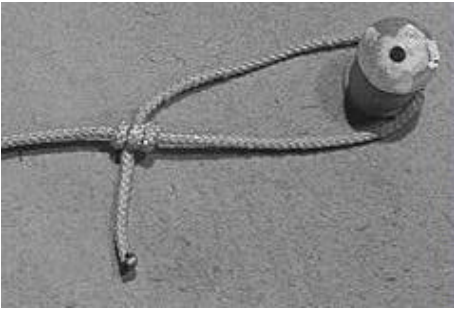


Place a final loop around the standing end.



Below are views of the finished knot.





73, Hugh Wardlaw (WB4SLI)

### ARRL NEWSLETTER

#### FIVE RADIO AMATEURS NOW ABOARD THE SPACE STATION

Five cosmonaut or astronaut-hams now are aboard the International Space Station, and one of them -- European Space Agency astronaut Thomas Reiter, DF4TR -- has officially joined the Expedition 13 crew for the remainder of its duty tour and for about half of Expedition 14's tour -- six months in all, according to NASA. His arrival marks the first time since May 2003 that the ISS has had a three-member crew. Reiter and six other astronauts -- two of them also hams -- arrived July 6 aboard shuttle Discovery. A veteran of the Russian Mir space station, he's the first ESA astronaut to become part of a long-term ISS crew. He told reporters July 7 that it feels good to be back in space after 11 years.

"The body somehow remembers the feeling of weightlessness, how to move, how to work in space," Reiter remarked. "It's a huge station. There is a lot of space inside here."

There to greet the newcomers when they came aboard the ISS were Expedition 13 Commander Pavel Vinogradov, RV3BS, and Flight Engineer and NASA Science Officer Jeff Williams, KD5TVQ. The shuttle and ISS crews will spend the next week conducting joint operations, including two spacewalks and transferring cargo from and to Discovery. Reiter said he's looking forward to his spacewalk with Williams in early August.

"I think everyone can imagine when you are up in space for a long time, it's really great to go outside at least once," he said.

Discovery shot into space from Cape Kennedy July 4 -- the first Independence Day shuttle launch ever and only the second since the Columbia disaster in 2003. Relieved mission control personnel reacted with hoots, handshakes and hugs after the twice-postponed Discovery mission STS-121 reached preliminary orbit without a hitch.

Weather worries kept Discovery on the launch pad July 1 and 2. NASA managers also were concerned about a crack discovered in foam insulation near a bracket holding the liquid oxygen feed line in place on the external fuel tank. Some insulation also broke free during launch.

The STS-121 crew includes Commander Steve Lindsey; Pilot Mark Kelly; and mission specialists Stephanie Wilson, KD5DZE, Lisa Nowak, KC5ZTB;

Mike Fossum and Piers Sellers.

To be on the safe side, prior to docking, Lindsey piloted Discovery through a back-flip maneuver to allow Vinogradov and Williams to eyeball and capture imagery of the orbiter's heat shield for any signs of damage.

NASA is pinning its hopes on a successful Discovery mission, since the space shuttle is the only vehicle capable of transporting the components remaining to complete the ISS, including the ESA's Columbus module, which has been outfitted to accommodate Amateur Radio.

NASA astronauts Michael Lopez-Alegria, KE5GTK, and Sunita Williams, KD5PLB, and Russian cosmonaut Mikhail Tyurin, RZ3FT, have been named as the 14th ISS crew. Expedition 14 is scheduled to begin this fall.

#### HAM RADIO POST-FLOOD SUPPORT IN EASTERN US WINDS DOWN

ARES/RACES members in Bucks County, Pennsylvania - just north of Philadelphia - remained active this week supporting Red Cross operations following major flooding in several communities along the Delaware River. BCARES volunteers continued to provide communication for shelters and local emergency operations centers (EOCs) through the end of the week, according to Bucks County Emergency Coordinator

Harris Stein, NY3H.

"Thanks to all who have volunteered so much to handle this emergency," Stein said. "Bucks County can be proud of your effort and professionalism."

Stein reports that nearly four dozen ham radio volunteers had participated in the activation as of July 4, staffing six EOCs, two shelters and three additional command sites. Three "rover" units handled such tasks as reporting on river levels. Ham radio volunteers also assisted the Red Cross with damage assessment.

Elsewhere, 18 volunteers from the Pocono Amateur Radio Klub and Eastern Pennsylvania Amateur Radio Association supported emergency communication between the Monroe County Office of Emergency Services and several Red Cross-sponsored shelters.

In Columbia County, where the Susquehanna River crested at 28.6 feet - nearly 10 feet above flood stage, ARES/RACES activated an emergency net, and Amateur Radio volunteers assisted with river level readings at 15 locations. The net remained operational for 27 hours. ARES/RACES members also aided with bridge and road closure announcements. Several bridges and roadways remained closed this week.

Amateur Radio volunteers also supported communication to two Red Cross shelters in Columbia County and helped to distribute

drinking water after the local water company had to shut down due to flooding.

"The long cleanup and recovery process continues for the many resident of Columbia and other nearby counties affected," said Columbia County ARES RACES Radio Officer Randy Kishbaugh, N3JPV.

ARRL Eastern Pennsylvania Section Manager Eric Olena, WB3FPL, said Amateur Radio volunteers activated in Berks, Bradford, Bucks, Carbon, Columbia, Lehigh, Monroe, Northampton, Schuylkill and Wyoming counties.

Meanwhile, ARES/RACES operations in response to flooding in two New Jersey counties have ended. "We are back to normal," Mercer County Emergency Coordinator Kip Burnett, KB2EGI, told ARRL earlier this week. The county EOC remains active to assist in cleanup operations, although Amateur Radio support is no longer necessary. Located along the Delaware River, Mercer County includes the state capital of Trenton.

To the north, Sussex County Deputy Communications Officer Dan Murphy, W2GZB, reports that ARES/RACES responded to support flood relief operations on June 28 and 29. Murphy says county emergency managers requested ARES/RACES operators at EOCs in Newton and Montague and, during a power outage, to the

911 center in Newton. Ham radio volunteers provided communication support at a shelter and at the flood zone in Montague. "All operations went well," Murphy reported.

ARRL Eastern New York Section Emergency Coordinator Frank Stone, KB2YUR, reports ARES activity in support of the Greater New York American Red Cross wound down July 5.

"During the operations we provided communications for the Red Cross to shelters, their command vehicle, the temporary headquarters and between emergency response vehicles (ERVs) and other Red Cross vehicles," Stone told ARRL. "We operated from 7 or 8 AM until the last feeding, done as late as 11 PM." Amateur Radio volunteers traveled with mass care vehicles, food drop units and disaster assessment teams.

ARES volunteers from two states and seven counties assisted in the flood response operation, Stone said.

#### ARRL'S "THE BIG PROJECT" TOPS 170 SCHOOLS

With the addition of four new schools, the ARRL Education and Technology Program (ETP -- also known as "The Big Project") now has 171 schools across the US onboard. The newest ETP project grant schools are Denison Middle School, Winter Haven, Florida; Hitchcock High School, Hitchcock,

Texas; Jefferson School, St Louis, Missouri, and Mesa Linda Middle School, Apple Valley, California. ETP Coordinator Mark Spencer, WA8SME, notified the four schools in June.

"I am honored to announce that your school has been awarded an Education and Technology Program grant to help you further your school's educational goals," Spencer said in letters to the four schools. "This grant award recognizes the importance of wireless technology in our society and your innovative program that uses the concepts of wireless technology in education." Program grants to the four schools will total \$9000.

In addition to the four new schools, the ETP awarded progress grants to two schools that already are a part of the program. They are Powell GT Magnet School, Raleigh, North Carolina and South Sevier High School, Monroe, Utah. Progress grants to the two schools will come to \$1000.

The ARRL Executive Committee approved allocating \$10,000 in program and progress grants during its May meeting. Spencer now is awaiting equipment "wish lists" from the schools to put the items out for bid. Program schools have a choice of three turnkey Amateur Radio station configurations, depending upon what the school hopes to accomplish.

For more information, visit the ARRL Education and Technology Program Web page <<http://www.arrrl.org/FandES/tbp/>> or contact ETP Coordinator Mark Spencer, WA8SME, "<[mspencer@arrrl.org](mailto:mspencer@arrrl.org)>;

SPACEWALK IS "ULTIMATE EXPERIENCE," ASTRONAUT TELLS KUWAITI STUDENTS

Students at the Scientific Center of Kuwait spoke June 28 via teleconference link and Amateur Radio with astronaut Jeff Williams, KD5TVQ, at NA1SS aboard the ISS. The Amateur Radio on the International Space Station (ARISS) program arranged the event, which marked the first such QSO with a school in the Middle East. Responding to one question, Williams told the youngsters what it's like to perform a spacewalk.

"Spacewalking is the ultimate experience up here," Williams said. "To go outside and literally be a spacecraft yourself and to be just hanging on the outside and seeing the entire Earth in one view is absolutely incredible."

Another youngster wanted to know why and how Williams became an astronaut.

"Early in my career I was a pilot, and I've always wanted to be an explorer," he replied. "I love flight, and this is the ultimate way to fly, and I became an astronaut by setting goals early in life when I was in school and working very hard to meet those goals."

Williams said his favorite leisure-time activity is taking photographs

of Earth "and looking at all those wondrous sights below."

The astronaut also told the students at the Scientific Center that there's "continuous noise" aboard the ISS.

"It's not very loud, but there's a lot of fans aboard to move the air around to keep the air healthy for us, and that's primarily what we hear-- the noise is from the different fans." Earlier ISS crew members have explained that the air-moving fans are necessary because of the lack of convection currents in the microgravity environment.

In all the students asked 22 questions, and as the event drew to a close, Maryam Aljoaan, 9K2MD, who coordinated the 10-minute radio contact at the center, thanked Williams for taking time to speak with the youngsters, who expressed their appreciation with applause. "Thank you so much! 73," Aljoaan said.

Serving as the Earth station for the Kuwait contact was Nancy Rocheleau, WH6PN, in Hawaii. Verizon Conferencing donated a teleconference link to handle two-way audio between Hawaii and Kuwait.

The Scientific Center of Kuwait, located in Salmiyah, is dedicated to advancement of the sciences and cultural heritage of Kuwait and promotes environmental awareness. It opened in 2000. On hand for the occasion -- in addition to the



students -- were some 40 visitors, including members of the media. Another 100 visitors listened in via an intercom hookup.

ARISS-Europe mentor Peter Kofler, IN3GHZ, called the event "a success in every aspect."

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

#### "INTRUDERS" SPOTTED IN SEVERAL AMATEUR RADIO HF BANDS

An "intruder" signal spotted on 20 and 17 meters - possibly originating from a Chinese HF broadcast station - has sparked a slew of reports and complaints from around the globe. In addition, those who volunteer to monitor the bands for out-of-place signals cite reports of so-called "single-letter beacon" stations on 40 meters. As the League's liaison with the International Amateur Radio Union (IARU) Region 2 Monitoring System (IARUMS) <<http://www.iau.org/iarums/>> - also known as "Intruder Watch" - ARRL Field and Regulatory Correspondent Chuck Skolaut, K0BOG, is often the first to hear about strange signals that suddenly pop up on the bands.

"It was still on 18.160 MHz as of July 4," Skolaut said, citing reports of a "Chinese broadcaster" on 17 meters. "DARC Monitoring System Coordinator Uli Bihlmayer, DJ9KR, reported hearing the

broadcasts on 20 meters as recently as July 2. He indicated the signal was showing up at various times on 14.230, 14.305 and 14.310 MHz." The signal has been heard on one band or the other in the US from the Northeast to Hawaii, as well as in Canada, Sri Lanka, the UK, Australia, Hong Kong and India.

Monitors in Connecticut and Pennsylvania reported a strong AM signal from the apparent broadcaster on 18.160 MHz on July 2 at 1100 UTC and 1300 to 1400 UTC. The signal has been heard on 14.180 MHz as well. Several listeners say their bearings put the source of the signal in central or southern China. Chris Cummings, G4BOH, says he's been able to match the audio to transmissions appearing on 15.495, 11.665 and 12.025 MHz. He filed a report with Ofcom, the UK's telecoms regulatory agency. Bihlmayer filed complaints with German telecoms authorities as well as with the Chinese Embassy in Berlin.

Reports filed with DX Listening Digest <<http://www.worldofradio.com/index.html>> suggested that the 14.180 and 18.160 MHz broadcasts are intended to jam the clandestine "Sound of Hope" transmission from Taiwan. The July 2 DX Listening Digest reports put the Chinese-language broadcasts appearing on 14.310 MHz - QRMing the Medical Amateur Radio Council (MARCO) net on 14.308 MHz - as well as on 18.160 MHz. Short wave listeners

(SWLs) say the AM carrier occasionally drops at the top of the hour for a monitoring check, only to reappear five minutes later

Skolaut has shared reports and updates with the FCC, although the Commission has no authority to make intruder stations outside the US stop transmitting on Amateur Radio frequencies. Such situations typically are dealt with through diplomatic channels.

For several years now, monitors around the world have reported the presence of "single-letter markers" or "single-letter beacons" apparently emanating from Russia. The so-called "C" beacon has again been reported active on 7.039. Those familiar with the beacons - believed to be Russian Navy channel markers - say there has been a "beacon cluster" on and around 7.039 MHz in the past. These stations identify with a single letter in conventional Morse code.

IARU Region 2 Monitoring System Coordinator Bill Zellers, WA4FKI, compares the Intruder Watch program to a Neighborhood Watch that communities set up to reduce crime. He invites other radio amateurs or SWLs in IARU Region 2 (the Americas and some eastern Pacific Islands) to become part of the Intruder Watch program. He explains that IARUMS volunteers listen on the bands for intruders. IARU monitors have no legal authority but act only as band monitors, he points out.

Monitors in other parts of the world have logged "drift net buoys" on 160 meters, international broadcasters on 80 and 40 meters, fishing trawlers and pirates, paramilitary stations from India on 17 meters as well as something called "the Havana Gurgle" - the third harmonic of a broadcast on 6.030 MHz.

"To survive, the Amateur Radio community needs clean frequencies that are free of intruders," Zellers says. "Take a few minutes to join the Intruder Watch program and help us take care of our Amateur Radio neighborhood." Contact Zellers "<wa4fki@nc.rr.com>; for more information.

#### NEW TECHNICIAN CLASS STUDY MATERIALS AVAILABLE

A significantly revised and updated Technician class (Element 2) question pool went into effect July 1 for all Technician class examinations offered on or after that date. ARRL VEC Manager Maria Somma, AB1FM, says ARRL VEC prepared for the changeover.

"ARRL Volunteer Examiner teams were stocked with new test materials based on the Technician class question pool that became effective on July 1," she says. "The new Technician class question pool does not contain any diagrams or symbols."

The League also has updated its Technician study guides to reflect

the new Element 2 question pool. A brand-new publication, The ARRL Ham Radio License Manual, includes all the information a prospective ham needs to get licensed. In addition, the fourth edition of ARRL's Tech Q & A now is available. Well-known ham radio author and QST contributing editor Ward Silver, N0AX, wrote both manuals.

ARRL Marketing Manager Bob Inderbitzen, NQ1R, says these two publications replace the popular and familiar Now You're Talking! (5th edition) and ARRL's Tech Q & A (3rd edition) for those taking the Technician examination on or after July 1. ARRL-registered instructors may continue to receive discounts on League training materials.

A team of ARRL staffers and volunteers contributed to the organization and layout of The ARRL Ham Radio License Manual, which may be used either for self-study or for classroom use. It features a friendly, easy-to-read two-color format that emphasizes key learning concepts as well as easy-to-understand "bite-sized" sections.

The new ARRL Tech Q & A also includes the Technician Amateur Radio license examination (Element 2) question pool effective July 1 plus an answer key and concise, clear explanations for all questions.

The ARRL Ham Radio License Manual (Order No 9639) is \$24.95.

The new fourth-edition ARRL Tech Q & A (Order No 9647) is \$15.95. Visit the ARRL online catalog <<http://www.arrl.org/catalog/>>.

Later this summer, the League will introduce a new online class, "The ARRL Ham Radio License Course," replacing the Technician License Course (EC-010) that had been offered through the ARRL Certification and Continuing Education (CCE) program. Once it's available, students taking the new course will be able to complete all of their Technician class license training online. Along with a 100-percent risk-free guarantee, registration will include a copy of the new ARRL Ham Radio License Manual, a one-year ARRL membership and post-graduate support.

ARRL offers online and computer-based training for students interested taking practice test drills. HamTestOnlineT is a Web-based training program for the Amateur Radio written exams, covering all questions and study material. Also available is Ham University on CD-ROM. This software allows you to browse the questions and quiz yourself on weak areas. Both products are available for the new Technician question pool, as well as for students preparing to upgrade to General or Amateur Extra. HamTestOnline (Order No 9571) is \$49.95. The complete edition of Ham University (Order No 8735) retails for \$39.95, or purchase the Technician edition (Order No



8956) for \$24.95. Inderbitzen says the ARRL Technician class video course expired when the new exam question pool took effect on July 1. Making the course current will require extensive changes, but a new Technician class video will not be available right away.

**FCC AFFIRMS FINE FOR  
MARKETING NON-  
CERTIFICATED CBs AS HAM  
TRANSCEIVERS**

The FCC has affirmed a \$7000 fine it proposed to levy on TravelCenters of America in Troutdale, Oregon, for marketing uncertificated Citizens Band (CB) transceivers as 10-meter Amateur Radio transceivers. In a Forfeiture Order (NoF) released June 29 <[http://hraunfoss.fcc.gov/edocs\\_public/attachmatch/DA-06-1334A1.pdf](http://hraunfoss.fcc.gov/edocs_public/attachmatch/DA-06-1334A1.pdf)>, the FCC turned away TravelCenters' argument that the transceivers in question were not CB transceivers, which require FCC certification, but Amateur Radio transceivers, which do not. The Commission says its Office of Engineering and Technology (OET) determined that the radios in question -- manufactured by Galaxy -- could be easily modified to operate on CB channels.

"TravelCenters provides no evidence to show that the Galaxy models it offered for sale were not easily modified," the FCC said in its NoF. "Therefore, we find that the subject Galaxy models were CB transmitters pursuant to Section 95.603(c), regardless of the signs TravelCenters placed near the point

of purchase." The signs advised that the units were Amateur Radio transceivers, not CB radios, and a license was required.

In May, an FCC Order concluded a similar case in which the Commission had imposed \$125,000 in fines on Pilot Travel Centers LLC for continuing to market CB transceivers labeled as Amateur Radio gear but intended for use on both CB and amateur frequencies. Under the terms of a consent decree, Pilot agreed to make "a voluntary contribution" of \$90,000 to the US Treasury "without further protest or recourse," but did not admit to any wrongdoing. Pilot further agreed to refrain from marketing as "Amateur Radio" gear any transmitting devices with built-in features to facilitate CB operation.

The FCC required Pilot to remove from sale Galaxy transceiver models DX33HML, DX66V and DX99V. Those units also were among the radios the FCC cited in the TravelCenters proceeding. Some of the Galaxy transceivers at issue in the TravelCenters' case have only CB-like channel knobs and indicators for tuning, although the more expensive models sport a digital frequency readout. Most of the units transmit only in AM and FM mode.

In affirming the \$7000 fine, the FCC cited a 1999 letter from the FCC's Office of General Counsel (OGC) on the importation and marketing of ham radio transceivers. The OGC's letter

clarified that transmitters having "a built-in capacity to operate on CB frequencies and can easily be altered to activate that capacity, such as by moving or removing a jumper plug or cutting a single wire" fall within the definition of a CB transmitter and must obtain FCC certification prior to importation or marketing.

The FCC also turned away TravelCenters' argument that Commission efforts 10 years ago to clarify the definition of a CB transceiver in an OET Public Notice violated the Administrative Procedures Act. The FCC countered that it had relied on the OGC's letter and its interpretation of §95.603(c) as well as the OET's recent determination regarding the specific transceiver models in question. The Commission further noted that §95.655(a) of its rules states that no transmitter will be certificated for CB use if "equipped with a frequency capability" not listed in Part 95 as CB transmitter channel frequencies.

The TravelCenters case dates back to the fall of 2001, when an FCC agent visited the TravelCenters' retail store in Troutdale and observed six models of "CB transceivers" that had not received FCC certification. The FCC's Portland, Oregon, Field Office issued a Citation to TravelCenters' Troutdale store later that fall for selling non-certificated CB transceivers. It warned TravelCenters that future violations could lead to fines and seizure of equipment.

### PACKET UPDATE .....

Many times when working on and building our own equipment we have to have test equipment. Since we cannot see electricity in action most of the time, electronics test equipment is our only way to find out what is going on. A simple multimeter is nice. It allows us to check voltage and current levels along with resistance. Some newer meters also allow for checking of capacitance, which can come in handy. Meters are also on the market which can measure other important parameters. One of the best deals for the money is the LCM1950. This meter also allows us to measure inductance to 40 Henries. It allows for frequency measurements to 4 MHz. It has a built in digital logic tester mode for digital circuits. The unit also allows capacitor testing up to 400 Microfarads. It allows testing of diodes and transistors. It allows for audible continuity test for shorts. This meter is sold by C&S sales for about \$60.00. If you want a meter with these capabilities check LCM1950 out at their website. It is [www.cs-sales.com](http://www.cs-sales.com)

James Butler, KB4LJV

### AMATEUR HARDWARE UPDATE .....

Many times we want to use newer accessories and circuits with our older rigs. I wanted to build up a TICK microprocessor keyer for use with my HW-9 QRP rig. The HW-9 was the last QRP rig Heathkit made and has the two tone brown paint scheme. I did not want to put the circuit inside as I want to keep this rig without any modifications. Building up the circuit was not a problem but I wanted a matching case to put it in. Thank goodness for Ebay. By watching for Heathkit items for sale I found a HD-1515 phone patch that was sold with the two tone brown case. The seller said the unit had not been tested and he did not know if it even worked. I really did not care if it worked or not since I only wanted the case. I got HD-1515 for \$5.00 plus shipping. I took

out all the phone patch stuff and cleaned and added labels to the panels where needed to show the keyer functions. I now have a matching TICK keyer for my HW-9 that looks fine. Finding old not working equipment allows us to get a good deal and recycle those cases.

James Butler,  
KB4LJV



# JULY

2006

<i>Sun</i>	<i>Mon</i>	<i>Tue</i>	<i>Wed</i>	<i>Thu</i>	<i>Fri</i>	<i>Sat</i>
						<b>1</b>
<b>2</b>	<b>3</b>	<b>4</b> <b>INDEPENENCE DAY</b> Joseph, KE4JFN	<b>5</b> Betsy, KD4KOM	<b>6</b> <b>MARA Club Meeting</b> <b>7:00 PM</b>	<b>7</b> Amanda Burnum	<b>8</b> Sandra Joyce Rye
<b>9</b>	<b>10</b> Pat, KC4SJD	<b>11</b> <b>Delta Club Meeting</b> <b>7:00 PM</b> Kay, KA4EAG Karen, KI4IRR	<b>12</b> Harry, AF4RH	<b>13</b>	<b>14</b>	<b>15</b> Nora, W4ZOR
<b>16</b> Ben Montgomery	<b>17</b> Richard, AI4BN Barry, KE4KAG Jerry, K4CMZ	<b>18</b> Ray, AA4UK	<b>19</b> Dean, N2LAZ	<b>20</b> Joe, WA4OVO Marie, K4GMT	<b>21</b> Bill, WA4MJM	<b>22</b>
<b>23/ 30</b>	<b>24 /31</b>	<b>25</b> <b>Shelby Cty., ARES</b> <b>6:45 PM</b> Bill, W4NZP	<b>26</b> Don, KA4EBU	<b>27</b>	<b>28</b> Simon Montgomery	<b>29</b>

# AUGUST

2006

<i>Sun</i>	<i>Mon</i>	<i>Tue</i>	<i>Wed</i>	<i>Thu</i>	<i>Fri</i>	<i>Sat</i>
		<b>1</b> Dana, WI3B George, N3ISH	<b>2</b>	<b>3</b> <b>MARA Club Meeting</b> <b>7:00 PM</b>	<b>4</b> Vicki, KF4DJS	<b>5</b>
<b>6</b>	<b>7</b>	<b>8</b> <b>Delta Club Meeting</b> <b>7:00 PM</b> Heidi, KC4ZOU	<b>9</b>	<b>10</b> Leslie Moore	<b>11</b>	<b>12</b>
<b>13</b> Bill, KC4SXT	<b>14</b>	<b>15</b>	<b>16</b> Norman, KA4AEF	<b>17</b> Art, K4SHJ	<b>18</b>	<b>19</b>
<b>20</b>	<b>21</b> David, KC5GGE	<b>22</b> <b>Shelby Cty., ARES</b> <b>6:45 PM</b> Cornelia Richardson	<b>23</b> Suresh, N9GSA Ben, KU4AW	<b>24</b> Scott, K5SJ	<b>25</b>	<b>26</b>
<b>27</b>	<b>28</b> Richard, W0SZP	<b>29</b>	<b>30</b> David, KD4NOQ James, AG4KM	<b>31</b> Rex, KB2WGP		



**C O N T E S T  
CALENDAR**

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

com for information on special competitions and awards.

**World Wide Major Six Club Contest** -- CW/SSB, sponsored by the Six Meter World Wide DX Club, from 2300Z Jul 8-0300Z Jul 9. Frequencies: 50 MHz only. For more information: <http://6mt.com/contest.htm>.

**FISTS Summer Sprint** -- CW, from 1700Z-2100Z Jul 9 (see Feb 2006 *QST*, p 99, or [www.fists.org](http://www.fists.org)).

**QRP ARCI Summer Homebrew Sprint** - CW, from 2000Z-2400Z Jul 9 (see Dec 2005 *QST*, p 86, or [www.qrparci.org/contest.htm](http://www.qrparci.org/contest.htm)).

**IARU HF World Championship** -- from 1200Z Jul 8-1200Z Jul 9 (see Apr 2006 *QST*, p 102).

**World Radiosport Team Championship** -- runs concurrently with the IARU HF Championship. See [www.wrtc2006](http://www.wrtc2006).

**North American RTTY QSO Party** -- sponsored by the *National Contest Journal* from 1800Z Jul 15-0600Z Jul 16. Frequencies: 80-10 meters, 100 W max power. For more information: [www.ncjweb.com](http://www.ncjweb.com).

**CQ WW VHF Contest** -- all modes, sponsored by *CQ Magazine* from 1800Z Jul 15-2100Z Jul 16. 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.cqww-vhf.com](http://www.cqww-vhf.com).

**CQC Great Colorado Gold Rush** -- CW, sponsored by the Colorado QRP Club from 2000Z-2200Z Jul 16. Frequencies: 20 meters only. For more information: [www.cqc.org/contests](http://www.cqc.org/contests).

**Flight of the Bumblebees** -- CW, sponsored by the Adventure Radio Society, 1700Z-2100Z Jul 30. 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](http://www.arsqrp.com/ars/pages/bumblebees/bb_rules.html).

**RSGB Islands-On-The-Air Contest** -- CW/SSB, sponsored by the RSGB from 1200Z Jul 29-1200Z Jul 30. Frequencies: 80-10 meters. For more information: [www.rsgbhfcc.org](http://www.rsgbhfcc.org).

**ARRL UHF Contest**, 1800Z Aug 5-1800Z Aug 6 (see Jul *QST*, p 105).

**North American QSO Party** -- CW, sponsored by the *National Contest Journal* from 1800Z Aug 5-0600Z Aug 6 (see Jan *QST*, page 101, or [www.ncjweb.com](http://www.ncjweb.com)).

**SARL HF DX Contest** -- SSB, sponsored by the Bloemfontein Radio Amateur Club from 1230Z -1630Z Aug 6 (CW is Aug 27). Frequencies: 80-20 meters. For more information: [www.sarl.org.za/public/contests](http://www.sarl.org.za/public/contests).

**Ten-Ten International Summer Phone QSO Party** -- sponsored by Ten-Ten In-

# 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](mailto:ka4bll@arrl.net) or 363-9607.

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

K4TTA (Extra) Tom Richardson 386-6268  
[k4tta@arrl.net](mailto:k4tta@arrl.net) (1, 3, 4, 6, 8, 9, 13, 14, 15)

KA4BLL (Extra) Ned Savage 363-9607  
[ka4bll@arrl.net](mailto: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](mailto:jbutler@bigriver.net) (2, 7, 9, 11, 13, 14)

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

KU4AW (Extra) Ben Troughton 372-8031  
[bktrough@bellsouth.net](mailto:bktrough@bellsouth.net) (2, 4, 8, 15)

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

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

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

K4DIT (Extra) Ken Gregg 853-7384  
[kgreggc@a-c.com](mailto:kgreggc@a-c.com) (4, 6, 8, 11, 15)

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



ternational from 0001Z Aug 5-2359Z Aug 6, 10 meters only. For more information: [www.ten-ten.org](http://www.ten-ten.org).

**European HF Championship** -- CW/SSB, sponsored by the Slovenian Contest Club from 1200Z-2359Z Aug 5. 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 5. 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](http://www.n2ty.org/seasons/tara_grid_rules.html).

**National Lighthouse-Lightship Weekend** -- all modes, sponsored by the Amateur Radio Lighthouse Society from 0001Z Aug 5-2359Z Aug 6. 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: [www.arlhs.com](http://www.arlhs.com).

**Worked All Europe DX Contest** -- CW, sponsored by the Deutscher ARC from 0000Z Aug 12-2359Z Aug 13 (Phone is Sep 9-10; RTTY is Nov 11-12). Frequencies: 80-10 meters according to Region 1 band plan. For more information: [www.waedc.de](http://www.waedc.de).

**Maryland-DC QSO Party** -- CW/Phone, sponsored by the Antietam Radio Association from 1600Z Aug 12-0400Z Aug 13 and 1600Z-2359Z Aug 13. 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](http://www.w3cwc.org/rules.html).

**SWOT Hot-Rock Shootout** -- CW/SSB/Digital, sponsored by Sidewinders On Two Radio Club from 0000Z Aug 10-2359Z Aug 16. Frequencies (MHz): 144 only. For more information: [www.swotrc.net](http://www.swotrc.net).

**ARRL 10 GHz and Up Contest** -- 6 AM local Aug 19-12 AM (midnight) local Aug 20 (see announcement elsewhere in this issue).

**North American QSO Party** -- SSB, sponsored by the *National Contest Journal* from 1800Z Aug 19-0600Z Aug 20 (see Aug 5-6).

**SARTG WW RTTY Contest** -- sponsored by the Scandinavian Amateur Radio Teleprinter Group from 0000Z-0800Z and 1600Z-2400Z Aug 19 and 0800Z-1600Z Aug 20. Frequencies: 80-10 meters. For more information: [www.sartg.com](http://www.sartg.com).

**Keymen's Club of Japan Contest** -- CW, sponsored by the Keymen's Club of Japan from 1200Z Aug 20-1200Z Aug 21. Frequencies: 160-6 meters (JA allocations on 160 are 1.810-1.825, 1.908-1.912 MHz). For more information: [www.jarl.com/kcj](http://www.jarl.com/kcj).

**New Jersey QSO Party** -- CW/Phone, sponsored by Englewood ARA from 2000Z Aug 19-0700Z Aug 20 and 1300Z Aug 20-0200Z Aug 21. 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](http://www.qsl.net/w2rj).

**International Lighthouse and Lightship Weekend** -- CW/SSB/Digital, sponsored by ILLW from 0001Z Aug 19-2359Z Aug 20. Frequencies: CW -- 21 kHz above band edge; SSB -- 51 kHz above band edge. For more information: <http://illw.net/index.html>.

**Russian District Award Contest** -- CW/SSB, sponsored by the Tambov Award Group and Russian Contest Club from 1400Z Aug 19-0800Z Aug 20. Frequencies: 160-10 meters. For more information: [http://rdaward.org/rda\\_contest1.htm](http://rdaward.org/rda_contest1.htm).

**Silent Key Memorial Contest** -- CW, sponsored by the QRP ARCI from 1500Z-1800Z Aug 19. Frequencies (MHz): 1.810, 3.560, 7.030, 7.040, 14.060, 21.060, 28.060. For more information:

[www.qrparci.org](http://www.qrparci.org).

#### SPECIAL EVENTS

**Jul 8, 0900Z-2100Z**, Vernon, CT. Area Amateurs, K1J. Jesus Festival. 145.450 145.330 146.52 145.73. QSL. John Winkley, 105 Oxford Dr, East Hartford, CT 06118.

**Jul 8, 1300Z-2000Z**, Pittsburgh, PA. Butler County Amateur Radio Public Service Group, K3PSG. Wings Over Pittsburgh -- 911 Airlift Wing Air Show featuring the Blue Angels. 28.440 21.340 14.240 7.240. Certificate. BCARPSG, PO Box 141, Prospect, PA 16052.

**Jul 8, 1600Z-0400Z**, West Covina, CA. Southern California Amateur Transmitting Society, WB6LRU. SCATS celebrates 30 years of radio. 20 40 m. QSL. Craig Johnson, N0CCJ, 19745 Colima Rd, Ste 1-577, Rowland Heights, CA 91748. [www.scats.org](http://www.scats.org).

**Jul 8-Jul 9, 1200Z-2100Z**, Marietta, OH. Marietta Amateur Radio Club (W8HH) and Parkersburg Amateur Radio Klub (N8NBL), W8HH. 6<sup>th</sup> annual Riverfront Roar Powerboat Races & Festival. 146.97 146.88 14.325 7.285. Certificate. Mark Leatham, KR5N, 1710 Mount Tom Rd, Marietta, OH 45750.

**Jul 8-Jul 9, 1600Z-0300Z**, Watertown, TN. Upper Cumberland Amateur Radio Association, W4J. Watertown Jazz Festival -- TN's Premier Jazz Event. 14.260 7.260 3.860. QSL. Dennis M. Barrett, 1035 East 6<sup>th</sup> St, Cookeville, TN 38501. [www.ucara.org](http://www.ucara.org).

**Jul 12-Jul 16, 1800Z-2200Z**, Austin, TX. Naturist Amateur Radio Club, NU5DE. **Nude Awareness Celebration/Nude Recreation Week**. 21.365 14.265 7.265. Certificate. Naturist Amateur Radio Club, PO Box 200812, Austin, TX 78720-0812. [www.nu5de.org](http://www.nu5de.org).

**Jul 15, 1300Z-1900Z**, Wapakoneta, OH. Reservoir Amateur Radio Association, K8QYL. Anniversary of Moon Landing. 14.250 7.250. Certificate. Tom Kaup,

KA1UP, 421 Lewis Ave, St Henry, OH 45883.

**Jul 15, 1400Z-2000Z**, Williamsburg, VA. Williamsburg Area Amateur Radio Club, K4RC. Promoting Colonial Williamsburg/Historical Triangle. 21.350 18.150 14.250 7.261. Certificate. Russell Chandler, 132 Druid Dr, Williamsburg, VA 23185. [www.qsl.net/waarc](http://www.qsl.net/waarc). *Special certificate for working all three K4RC special event stations -- Jamestown Island (May) and Yorktown Battlefield (Oct)*.

**Jul 15, 1500Z-1900Z**, Falmouth, MA. Falmouth Amateur Radio Association, K1AIR. FARA 75<sup>th</sup> Anniversary. 7.050 7.245 14.050 14.245. Certificate. FARA, PO Box 815, West Falmouth, MA 02574. [www.falara.org](http://www.falara.org).

**Jul 15, 1600Z-1800Z**, Colorado Springs, CO. Pikes Peak Radio Amateur Association (PPRAA), AF0S. 200<sup>th</sup> anniversary of Zebulon Pike's Expedition. 14.265. QSL. PPRAA, PO Box 16521, Colorado Springs, CO 80935. [www.ppraa.org](http://www.ppraa.org).

**Jul 15, 1600Z-2200Z**, DeSmet, SD. Lake Area Radio Klub and Huron Amateur Radio Club, W0WTN. Annual Little House on the Prairie Pageant. 14.265 7.265. Certificate. LARK, PO Box 642, Watertown, SD 57201. [www.w0wtm.org](http://www.w0wtm.org); [www.huronarc.info](http://www.huronarc.info).

**Jul 16-Jul 17, 1600Z-1600Z**, Muskegon, MI. Michigan DX Association And A.R. G.Y.L., N8S. USS *Silversides* Submarine Special Event N8S. 146.445 14.243 7.243 3.543. QSL. Michigan DX Association, 1235 Morgan NW, Grand Rapids, MI 49504. <http://mdxa1.org/silversidesspecial.html>.

**Jul 18-Jul 23, 1300Z-1900Z**, Bellefontaine, OH. Champaign/Logan Amateur Radio Club, K4H. Kids-4-HAM, making the world of HAM fun for the kids! 21.310 14.265 7.240 7.045. QSL. Gary Kauffman, PO Box 952, Bellefontaine, OH 43311.

**Jul 20-Jul 23, 1600Z-0000Z**, Cape May

County 4H Grounds, NJ. East Coast Long Wire Association, N4H. 4H Fair of Cape May County. 50.160 14.260 7.260 3.860. QSL. CMC 4H Fair – East Coast Long Wire Association, PO Box 318, Green Creek, NJ 08219. [www.eclwa.org](http://www.eclwa.org).

**Jul 22, 1500Z-1900Z**, Waco, TX. Lake Whitney Amateur Radio Society, WA5BU. Activating Baylor University's Ham Radio Club Station. 21.300 14.250 7.250. QSL. Baylor ARC, Box 85584, 500 Speight, Waco, TX 76798-5584. [kt5a@hotmail.com](mailto:kt5a@hotmail.com).

**Jul 22-Jul 23, 1200Z-0000Z**, West Union, WV. West Union, Birthday Festival Organization, WU8WV. 125<sup>th</sup> Birthday Festival Town of West Union, WV. 50.180 14.280 7.280 3.880. Certificate. Monte Tremont, HC 67 Box 1, West Union, WV 26456. [www.westunionfest.org/index.htm](http://www.westunionfest.org/index.htm).

**Jul 22-Jul 24, 1500Z-0100Z**, Springfield, OH. Independent Radio Association, W4H. 104<sup>th</sup> anniversary of the founding of the 4H movement. 14.344 7.244 3.944. QSL. Doug Bell, N8HSU, Independent Radio Association, PO Box 523, Springfield, OH 45501. [www.kb8zsk.com](http://www.kb8zsk.com).

**Jul 27-Jul 30, 1300Z-2100Z** daily, Oshkosh, WI. Fox Cities Amateur Radio Club, W9ZL. Experimental Aircraft Association Museum, from Vette Hangar at Pioneer Airport. 14.270 7.250. Certificate. FCARC, Attn: N9YMC, PO Box 5233, Appleton, WI 54912. [www.fcarc.us](http://www.fcarc.us).

**Jul 28-Jul 29, 1200Z-2000Z**, Berne, IN. Adams County Amateur Radio Club, W9A. Annual Swiss Days celebration. 14.280 7.260. QSL. Adams County Ham Club, 417 Dearborn St, Berne, IN 46711. <http://home.earthlink.net/~wayne-teury/swissdays.htm>

**Jul 28-Jul 31, 1700Z-0500Z**. Shelton, WA. Mason County Amateur Radio Club and North Mason ARES Club, N7SK and NM7E. Amateur Radio Exhibit. 80 40 20

m. QSL. Mason County ARC, PO Box 2114, Shelton, WA 98584. [www.hamradioatthefair.org](http://www.hamradioatthefair.org).

**Jul 29-Jul 30, 1300Z-1900Z**, Rutledge, TN. Lakeway Amateur Radio Club, W2IQ. From the Grainger County Tomato Festival. 14.250 7.260. QSL. Lakeway ARC, Box 160, 340 E Economy Rd, Morristown, TN 37814. [www.lakewayarc.org](http://www.lakewayarc.org).

**Jul 29-Jul 30, 1400Z-1900Z**, Carmel, NY. QSY Society, K4H. Putnam County 4H Fair. 28.350 21.300. QSL. Shirley Dahlgren, N2SKP, PO Box 677, Verplanck, NY 10596. [www.qsl.net/qsy](http://www.qsl.net/qsy)

**Aug 2-Aug 4, 1600Z-1900Z**, Oscoda, MI. Wurtsmith Division Yankee Air Force, W8Y. Wings of Freedom Fly-in -- B-24 and B-17. 14.250 7.250 3.890. Certificate. Wurtsmith Div Yankee Air Force, PO Box 664, Oscoda, MI 48850. [www.wurtsmith-yaf-museum.org](http://www.wurtsmith-yaf-museum.org).

**Aug 3-Aug 4, 1200Z-1800Z**, Grand Haven, MI. North Ottawa Amateur Radio Club, W8CSO. United States Coast Guard Festival. 14.400 7.200. QSL. NOARC, Box 44, Ferrysburg, MI 49409. [www.qsl.net/noarc/](http://www.qsl.net/noarc/).

**Aug 4-Aug 7, 1300Z-2400Z**, 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, 968 Culverne Ave NW, Massillon, OH 44647. [www.w8al.org](http://www.w8al.org).

**Aug 4-Aug 7, 1500Z-0300Z**, Indianapolis, IN. Indianapolis Motor Speedway Amateur Radio Club, W9IMS. Allstate 400 at The Brickyard. 21.340 14.240 7.240 3.840. QSL. Indianapolis Motor Speedway ARC, PO Box 18495, Indianapolis, IN 46218. [www.qrz.com/w9ims](http://www.qrz.com/w9ims).

**Aug 4-Aug 10, 0001Z-2359Z**, Galveston, TX. CCTG, WA5DTK. From Galveston area lighthouses, including operation during International Lighthouse/Lightship Weekend (Aug 5-6). 21.360 14.270/030 7.260/030 3.970. QSL. Barry



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## Delta Amateur Radio Club

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Brewer, 603 Broken Bow Dr, Round Rock, TX 78681.

**Aug 5, 1300Z-1800Z**, Townshend, VT. West River Radio Club, WIRRC. Grace Cottage Hospital Fair Day. 14.240 14.070 7.240 7.070. QSL. John Borichevsky, N1TOX, PO Box 8087, North Brattleboro, VT 05304. [www.westriverradio.net](http://www.westriverradio.net).

**Aug 5-Aug 6, 0001Z-2359Z**, Bristol, ME. Lincoln County Amateur Radio Club, K1LX. National Lighthouse-Lightship Weekend from Pemaquid Point Lighthouse, US #278 ARSL #589. 14.290 14.250. Certificate. John Peters, K2LOT, 154 Boothbay Rd, Edgecomb, ME 04566.

**Aug 5-Aug 6, 1300Z-2100Z**, Port Colborne, ON Canada. Niagara Peninsula Amateur Radio Club, VE3WCD. 28<sup>th</sup> Annual Canal Days Marine Heritage Festival. 21.250 14.250 7.250. QSL. Doug Frame, VE3JDF, 895 Lakeshore Rd E, Port Colborne, ON L3K 5V3, Canada. <http://nparc.on.ca>

**Aug 5-Aug 6, 1400Z-1800Z**, Alexandria, VA. Mount Vernon Amateur Radio Club, K4CG. Commemoration of the 216<sup>th</sup> birthday of the US Coast Guard. 14.250 7.230 7.038. QSL. USCG Radio Station, 7323 Telegraph Rd, Alexandria, VA 22315-3940. [www.mvarc.com](http://www.mvarc.com).

**Aug 8-Aug 14, 1300Z-1700Z**, Sycamore, IL. Amateur Operators of the Northern Illinois Steam Power Club, W9S. 50<sup>th</sup> Anniversary of Northern Illinois Steam Power Show. 28.390 14.268 7.268 3.990. Certificate. Bob Yurs, W9ICU, 1107 Commercial St, Sycamore, IL 60178. [www.w9icu.com](http://www.w9icu.com).

**Aug 11-Aug 13, 2200Z-1900Z**, Oscoda, MI. Wurtsmith Division Yankee Air Force, W8Y. Annual Fly-in and Pancake Breakfast. 28.365 14.265 7.265. Certificate. Wurtsmith Division Yankee Air Force, PO Box

664, Oscoda, MI 48750. [www.wurtsmith-yaf-museum.org](http://www.wurtsmith-yaf-museum.org).

**Aug 12, 1300Z-2000Z**, Baltimore, MD. Social Security Employees Amateur Radio Club, W3SSA. 71<sup>st</sup> Anniversary of the Social Security Act. 14.280 7.280. Certificate. Greg Stec, K3ANG, 1624 Pickett Rd, Lutherville, MD 21093. *Electronic certificate available*, e-mail [ac3p@arri.net](mailto:ac3p@arri.net).

**Aug 12, 1330Z-2130Z**, Hawley, PA. Science Camp Watonka, KB3BUM. 8<sup>th</sup> Annual Event. 28.440 21.340 14.240 7.240. Certificate. Camp Watonka ARC, PO Box 127, Hawley, PA 18428. [www.watonka.com](http://www.watonka.com).

**Aug 12, 1400Z-2000Z**, Newark, OH. Central Ohio Operators Klub Extra-Novice, W8TNX. Commemorating Johnny "Shiloh" Clem, youngest Army NCO. 18.160 7.250. Certificate. COOKEN, 1010 Blacks Rd SE, Hebron, OH 43025. [www.cooken.org](http://www.cooken.org).

**Aug 12, 1500Z-2100Z**, Van Buren, IN. Grant County Amateur Radio Club, W9EBN. 34<sup>th</sup> Annual Popcorn Festival. 146.79 14.260 7.260. Certificate. Bart Bartholomew, WA9SPT, 6981 N E00 W, Marion, IN 46952. [www.grantarc.com](http://www.grantarc.com).

**Aug 12-Aug 13, 0000Z-2359Z**, San Angelo, TX. AB5BG. Honoring the Native American Codetalkers of WWII. 40 20 15 meters. Certificate. Don Goff, 1210 Ardmore, San Angelo, TX 76905.

**Aug 12-Aug 19, 0000Z-2359Z**, Royal Oak, MI. K8W. 12<sup>th</sup> Annual Woodward Dream Cruise. 14.250 21.400 7.250 3.950. QSL. K8W, 27120 Barrington St, Madison Hts, MI 48071.

**Aug 12-Aug 21, 1600Z-2000Z**, Indianapolis, IN. Indiana State Fair ARC, W9ISF. 150<sup>th</sup> Indiana State Fair. 21.340 14.240 7.240 3.860.

QSL. W9ISF, PO Box 18495, Indianapolis, IN 46218-0495.

**Aug 13, 1400Z-2100Z**, Punta Gorda, FL. Peace River Radio Association, W4DUX. Commemorating the second anniversary of Hurricane Charley coming onshore at Gilchrist Park. 20 m. QSL. Gino Gerranti, KE4TJO, 391 Kenova St, Port Charlotte, FL 33954. .

**Aug 13-Aug 14, 1400Z-2359Z daily**, Window Rock, AZ. Navajo Amateur Radio Club, N7C. The Navajo Code Talkers Days. 14.265 7.265. QSL. Herbert Goodluck, N7HG, PO Box 3611, Window Rock, AZ 86515.

**Aug 17, 1500Z-2300Z**, Richmond, IN. Whitewater Valley Amateur Radio Club, K9R. 200<sup>th</sup> birthday of Richmond. 14.265 7.265. QSL. Whitewater Valley ARC, 1417 N A St, Richmond, IN 47374. [www.qsl.net/wwvarc](http://www.qsl.net/wwvarc).

**Aug 18-Aug 19, 1400Z-2100Z**, North Augusta, SC. North Augusta-Belvedere Radio Club, K4NAB. North Augusta at 100. 14.260 14.033 7.260 7.033. Certificate. A.W. Schoenfelder, 2011 Arch Dr, North Augusta, SC 29841-3047.

**Aug 18-Aug 26, 1500Z-0300Z**, Lebanon, TN. Wilson Amateur Radio Club, W4C. Wilson County Fair -- Tennessee's Best Fair. 14.245 7.245 7.044 3.970. QSL. Greg Tomerlin, 1562 Walnut Grove Rd, Lebanon, TN 37090. [www.wilsonarc.org](http://www.wilsonarc.org).

**Aug 18-Aug 28, 0000Z-2400Z**, Salt Lake City, UT. Utah DX Association, K7T. Philo T. Farnsworth 100<sup>th</sup> birthday -- Electronic Pioneer. All Bands. Certificate. QSL Mgr Wesley Wilkinson, W7WES, 7363 Galaxy Hill Rd, West Jordan, UT 84084. [www.udxa.org](http://www.udxa.org).

**TENNESSEE NETS**

<b>Net Name</b>	<b>Freq.</b>	<b>UTC</b>	<b>Day</b>
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

**LOCAL HAMFESTS OF INTEREST**

**2nd Annual MCARC Hamfest**  
 McMinn County Amateur Radio Club  
 I-75 Exit 49 and Hwy 30 E  
 Athens Regional Park  
 Athens, TN  
 July 15, 2006

**Delta Amateur Radio Club**  
**June 2006 Treasurers Report**

<b>Balance</b>	<b>\$7,073.66</b>
<b><u>Expense</u></b>	
Brads BBQ	\$169.00
<b>Total Expense</b>	<b>\$169.00</b>
<b><u>Income</u></b>	
Membership Dues and Donations	\$31.00
<b>Total Income</b>	<b>\$31.00</b>
<b>Balance 06/2006</b>	<b>\$6,935.66</b>

**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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**Memphis, TN 38175-0482**

**2006 Board of Directors**

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Darrell Sheffield, KK4D  
 901-277-3367 (Lt4FandD@aol.com)

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***Vice President***

Vacant

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-

***Past President (2004 & 2005)***

Ned Savage, KA4BLL  
 901-363-9607 (ka4bll@arrl.net)