

# DELTA AMATEUR RADIO CLUB

# SPARKS

P.O. BOX 750482 MEMPHIS, TN 38175-0482 / VOL. 16 / NOVEMBER, 2004



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

## NOVEMBER 2004 CLUB MEETING

**DATE:** November 9, 2004 ( 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. 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: [joant@mem.net](mailto:joant@mem.net)

## PRESIDENT'S CORNER

To all of the Delta Amateur Radio Club Members:

The Great November Meeting is once again here. Elections of your next year's officers and the long awaited prize giveaways are annually held at the November club meeting.

There will not be a VE TESTING session held prior to the November meeting. The VE Testing sessions will be back on the normal schedule at the December meeting. I hope that we have a good turn out for this meeting. The plan is to giveaway an Icom HF Radio (sorry, not a 7800), a dual band mobile, a handie talkie, and many other radio accessory products.

There is a nominee for each post, but nominations can still be made from the floor on Election Day, for any or all positions.

**Please Remember:** Deadline for Reports and Articles for the next issue of SPARKS is Friday, November 26th. 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)

Coming club events include the "St. Jude Memphis Marathon" held on the first Saturday in December. I have been told that there will be a need for at least 25 to 30 amateur operators. Also, KI4I float & band escort chairman for the Bartlett Christmas Parade, will be asking for volunteers, for that December event.

A new Repeater Trustee has been appointed, a long time member, past club president, and fairly new Extra Class Licensed ham, Suresh Kagoo. He has stated a desire to up grade our 146.82 machine, this will have the club incur some expense. We still are trying to raise to antenna on the 443.200 machine to get it above the new metal roof that the University added to the repeater site building's roof top. About 100 foot of hard line is required. There has been talk about also installing a beam on this site to allow for access via a "remote base" to get into the West Tennessee Amateur Radio repeater system (some of the old Volnet linked repeater system).

73, Ned, KA4BLL

**Delta Amateur Radio Club  
Board of Directors Meeting Minutes  
October 5, 2004**

Meeting called to order at 6:51 PM.

Attendees: Ned Savage, KA4BLL; Tom McLemore, KG4EOV; Tom Richardson, K4TTA; Bill Torkell, KG4VAW; Randy VanVoorhis, W4RMV; Bill Covington, KC4SXT, Roger Paulson, K4KCU & Tommy Thompson, KD4TJO.

**Old Business:**

Tommy brought to the attention of the board that there were two persons who had applied for membership last month that did not get voted on at last month's board meeting. Tom, K4TTA made a motion that we accept the applicants for membership in DARC and Tom, KG4EOV seconded the motion. Motion passed unanimously.

Bill, KG4VAW presented a printed treasurer's report to the board for review. Tom, K4TTA made the motion to accept the treasurer's report and Tom, KG4EOV seconded the motion. Motion passed unanimously to accept the treasurer's report as presented.

There was more discussion on how to reduce the phone line charges at the 146.82 repeater. Ned advised that he uses a company called Momentum Phone Service for his business and will check with them to see about availability of moving our line to their service. Tommy will also check with BellSouth on possible reduction to a residential rate. This has been tried in the past with no luck but we will try again.

Tony, WA4KHN is still working on nominees for the next year's slate of officers. Joe Lowenthal has agreed to work with Tony on the committee.

Tom, K4TTA reports that JOTA will be on October 16, 2004. Olive Branch ARC has offered to help with the project this year. The Boy Scout Adventurers are expected to set up a station later in the day in addition to the DARC/OBARC station that will be in operation all day.

Ned reported that he has not been able to contact Gary, WA2IQC yet regarding the change of trusteeship for the club's repeater system.

**New Business:**

There was much discussion on the November prizes and what they would be. A committee was appointed to choose and acquire the prizes for next month's meeting. A motion was made by Bill, KC4SXT to increase the prize total to \$1500 by reassigning some funds in the budget from the printing and mailing category to the November meeting category. Tom, KG4EOV seconded the motion and the motion passed.

The meeting was adjourned at 8:10 pm

Respectfully submitted by:  
Tommy Thompson, KD4TJO

**Delta Amateur Radio Club  
Membership Meeting Minutes  
October 12, 2004**

Ned Savage, KA4BLL called the July General Membership Meeting for the Delta Amateur Radio Club to order at approximately 7:14 pm local time with 35 members and guests present.

Ned, KA4BLL called for introductions of all in attendance.

Bill, KG4VAW read the treasurer's report to the group. Motions to accept the treasurer's report and secretary's report as published in SPARKS passed.

**Old Business:**

Nominations for 2005 Club Officers – Tony, WA4KHN presented the nominating committee's slate of officers for the upcoming year as follows:

President – Ned Savage, KA4BLL  
Vice President – Darrell Sheffield, KE4DHF  
Treasurer – Bill Torkell, KG4VAW  
Secretary – Lisa Sheffield, KI4DIL  
Dir. Publications – Roger Paulson, K4KCU  
Dir. Programs – Tommy Thompson, KD4TJO  
Dir. Training – John Zempel, KG4OLG  
Dir. Meetings & Special Events – Dean Honadle, N2LAZ

Ned called for nominations from the floor three times and all three calls went unanswered. Nominations were closed for the October meeting.

**Announcements:**

Terry, KB4KA announced that there is a ham in Fayette County that is selling most of his ham equipment including but not limited to a 70 foot fold

over freestanding tower, a tri-band HF beam and approximately 250 feet of ½" heliax.

Tony, WA4KHN announced MARA's cook-out at the clubhouse in his neighborhood on October 26 from 3 pm until after dark. Everyone is welcome to attend.

Tom, K4TTA announced that Scout Base will be on October 16 at the NAS gymnasium. Olive Branch ARC is going to join in the fun with us. Please contact Tom if you are able to volunteer.

Tommy, KD4TJO announced that the St. Jude Memphis Marathon is on Saturday, December 4 this year. The course has changed and he will need twice as many hams compared to the last couple of years. Around 30-35 volunteers are needed for this event.

Jim, KI4I said that he has some equipment cabinets for sale at \$10 each.

**New Business:**

Ned announced that the Board of Directors has made the decision to appoint a new trustee for the club's repeater system. Ned thanked Gary, WA2IQC for stepping in last year to fill the position when the former trustee decided to resign due to a heavy amount of other commitments. The new trustee for the W4BS repeater system will be Suresh Kagoo, N9GSA.

Ned, also informed the group that the ticket barrel needs more tickets in it and that the Board of Directors had voted to increase the value of the November prizes to \$1500. The Board had originally budgeted \$1200 for November prizes. Due to the fact that money was budgeted for printing and mailing SPARKS before the decision to go all electronic, the difference will be transferred from the printing/ mailing budget to the prize budget. The grand prize will be an HF base radio and other prizes will be a small 2m mobile radio, an HT and the usual other prizes such as antennas and other accessories.

**Program:** Tom, K4TTA presented a mini-hamfest display of some of the newer and more popular radios on the market today. Tom gave a short overview of each radio and it's capabilities.

There were no additional comments from the officers. The monthly door prize was won by John, KG4OLG.

Meeting adjourned at approximately 8:30 pm.

Respectfully submitted:

Tommy, KD4TJO  
Secretary

### VE Corner

Where has this year gone? Here it is time for the annual meeting with the Delta Club elections. It seems like only yesterday that we elected the new board! Oh well - we have held 13 VE sessions this year and I have a perfect attendance by two VE's - Ned KA4BLL and Ray N4ARH. Many others have come very close. It is extremely difficult to make all of the VE sessions. I have even been late to one session due to work constraints.

Thank you the following VE's for giving of their time and talent to help promote and advance the hobby of Ham Radio:

Arlene AI5GX Bill KC4SXT Dick K3ORS  
Don KJ4PO Francis WA4ZYN Jim AG4KM  
Jim KI4I Ned KA4BLL Ray N4ARH  
Richard AI4BN Rick KE4NTI Tom N4TV  
WITHOUT YOUR HELP THIS TEAM COULD  
NOT EXIST!!!!

Congratulations to the following person who tested with us this past year:

Adams, James KI4GIV Technician  
Bruton, Allen KB5YXA Extra

Campbell, Shannon KI4DIX Technician  
Chamlee, Scott KE5AIX Technician  
Chomyk, Adam KI4GIU Technician  
Couch, Judy KG4VES Extra  
Darnell, David KI4EMM Technician  
Davis, Roger KE5BAI Technician/ HF  
Fipps, Kent KE5AIY Technician  
Fletcher, Heidi KI4FWS Technician  
Ford, Gene KI4DIY Technician  
Forrest AI4GO Extra  
Hall, Thomas WB4VYB Extra  
Hastings, Carl KB5SWB Extra  
Howell, Joyce KI4DIZ Technician  
Hughes, Stephen KI4EBV Technician  
Hunt Jr, Kenneth KI4HAX Technician  
Hunt, Kimberly KI4HAW Technician  
Holley, R. Layne KI4EMN Technician  
Johnson, Houston KI4EAG Technician  
Kagoo, Suresh N9GSA Extra  
Kelsey, William KI4HAV Technician  
Kipp, Payne KI4FNZ Technician  
Martin, Charles KE5BLA Technician  
McCullar, Beverly W4BEV General  
McFadden, Elizabeth KI4GPP Technnician  
McFadden, James KI4HUA Technician  
McGuire, Matthew KI4HIK Technician  
Murley, Roger WA4BJY Extra  
O'Neil, Barbara KI4GPQ Technician  
Phillips, Glenn KI4FNY Technician  
Phillips, Michelle KI4EAF Technician  
Pope, George KI4EBU Technician  
Reese, Marcus KE5BLB General  
Reno, Wesley KD5VFH General  
Royer, David KI4FCU Technician  
Sheffield, Darrell KI4DJB Technician  
Sheffield, Darrell KI4DJB Extra  
Smith, Jason KI4GIT Technician  
Snow, Robert KI4DJA Technician  
Suchan, Donald KD5SPQ General  
Walron, James K4AFQ General  
Welle Jr, Joseph KI4EBT Technician  
Whitten III, John W5JWW Extra  
Widener, Kenneth KG4YLA General  
Williams, LaVonna KI4GPN Technician  
Williams, Leslie KI4GPO Technician

Woods Jr, Marvin KI4FOA General  
Woods, Marvin AI4FT Extra  
Worley, Allen N4NSJ General  
Vanzandt, John N2WMD Extra

Our people have come from near and far. They have been here for a Ham Fest, they have been traveling through to Texas and knew there was a testing session. We have served our hobby well this year.

73,  
Joan KN4PM  
ARRL VE Liaison

### **Board of Directors Meeting Rescheduled**

Due to conflicts during the November 2nd elections the Delta Club's Board of Directors meeting will be held on November 9th, at 6:00PM.

### **From the ARRL Newsletter**

#### **ARRL DISAPPOINTED WITH ADMINISTRATION OVER BPL REPORT AND ORDER**

The ARRL has expressed its disappointment with the Bush administration's failure "to prevent radio spectrum pollution by BPL systems." In a November 1 letter to Secretary of Commerce Donald L. Evans copied to President George W. Bush, ARRL President Jim Haynie, W5JBP, recalled Evans' assurances on the administration's behalf earlier this year "that we are responsible and sensitive to valuable incumbent [radiocommunication] systems." Haynie told Evans the FCC's BPL Report and Order (R&O) in ET Docket 04-37--adopted October 14 and released two weeks later--suggests otherwise.

"Despite excellent work conducted by the technical staff of your National Telecommunications and Information Administration (NTIA) to document the extensive harmful interference that will occur if BPL systems are deployed at the radiated emission limits

presently permitted by the FCC rules," Haynie said, "it appears that the NTIA concurred in the FCC's decision not to tighten those limits."

The FCC maintains that BPL emissions are localized and at low enough levels to preclude harmful interference in the first place, and it has left the door open to possibly upping the limit in the future.

Haynie pointed out that both international treaty and US law entitle licensed radiocommunication services to protection from harmful interference that unlicensed systems like BPL might generate. "Despite this," he continued, "the FCC has shifted the burden for initiating interference mitigation from the BPL system operator to the radio licensee." The NTIA's September 13 submission to the FCC shows that at FCC Part 15 limits, the probability of harmful interference is essentially 100 percent within 200 to 400 meters (approximately 660 to 1300 feet) of a power line carrying BPL signals--depending on the operating frequency.

"Amateur Radio stations are typically located in residential areas, nearly always well within such distances," Haynie noted. "The FCC's Report and Order provides no assurance that when interference occurs--as it unquestionably will--it will be promptly eliminated."

As part of the Commerce Department, the NTIA not only administers radio spectrum allocated to federal government users but advises the White House on telecommunications policy. On June 24, President Bush extolled BPL during a speech on technological innovation even while acknowledging interference concerns.

Haynie said the League will continue efforts to improve the R&O. Calling the HF spectrum "a unique and priceless resource," the ARRL president expressed regret that the administration "is willing to squander such a unique natural resource in order to provide a short-range broadband connection that can easily be provided by several other non-polluting

means."

ARRL CEO David Sumner, K1ZZ, echoed Haynie's concerns. The FCC R&O, he said, "shifts the burden to licensed operators to react to interference rather than adopting rules to prevent interference from occurring." The R&O advises locating "sensitive receiver antennas" as far as practically possible from power lines. Additionally, the FCC admonished ARRL that in cases where its members experience RF noise, "such noise can often be avoided by carefully locating their antennas."

Reacted Sumner: "If a BPL system operator wants to meet its obligation by picking up all of the costs of relocating a licensee's antenna, it's free to make the offer."

If interference occurs, the new Part 15 rules will require BPL system operators to employ "interference avoidance techniques" such as "frequency band selection, notching, or judicious device placement." Notches would have to be at least 20 dB--slightly more than 3 S units--below applicable Part 15 limits on HF and at least 10 dB below Part 15 limits on VHF--not much protection for weaker signals common in HF work.

"We might be more optimistic if there had, to date, been a single instance when the FCC had ordered a BPL system to terminate operation for causing harmful interference," Sumner said. "The Commission continues to be in denial, despite hundreds of pages of documentation of ongoing interference."

Sumner said the ARRL was gratified that the FCC R&O recognized that BPL devices have significantly greater interference potential than other Part 15 devices and that the Commission will require certification of BPL systems rather than the less-stringent verification. Additionally, Sumner said, the League was pleased that the FCC-mandated public BPL system database will require systems to be listed several weeks ahead of actual implementation so that

amateurs and others have advance notice.

ARRL officials continue to mull possible formal responses to the R&O. The ARRL Executive Committee already has okayed the filing of a Petition for Reconsideration. It further authorized ARRL General Counsel Chris Imlay, W3KD, to "prepare to pursue other available remedies as to procedural and substantive defects" in the BPL proceeding.

For more information on BPL, visit the Broadband Over Power Line (BPL) and Amateur Radio Web page <http://www.arrl.org/bpl>.

#### PERMANENT ISS HAM STATION, HUMAN CREWS SHARE FOURTH ANNIVERSARY

Four years ago this week, the Expedition 1 crew arrived aboard the International Space Station, home of the first permanent Amateur Radio station in space. Just weeks earlier, the FCC granted the station's distinctive NA1SS call sign. By the time William Shepherd, KD5GSL, Sergei Krikalev, U5MIR, and Yuri Gidzenko arrived on November 2, 2000, the Phase 1 or "initial station" Amateur Radio on the International Space Station (ARISS) gear was already on board for the crew to install. Crew increments comprised of US astronauts and Russian cosmonauts have rotated duty tours continuously ever since, and ham radio has played a role in each crew's routine.

"Every challenge for the International Space Station crews, flight control teams and management adds to the knowledge base we need to develop longer spaceflight missions to places like the moon and Mars," said International Space Station Program Manager Bill Gerstenmaier. "The work we're doing on station is directly connected to future exploration missions." ARISS International currently is mulling Amateur Radio's role in NASA's "Moon, Mars and Beyond" initiative.

With NASA's shuttle fleet now grounded, crew increments have shrunk to two people, while duty

tours have stretched from four to six months. Despite fewer hands on deck, NASA says the two-person crews sometimes have been able to do more with less--often improvising.

The Expedition 10 crew of Commander Leroy Chiao, KE5BRW, and ISS Flight Engineer Salizhan Sharipov, arrived at the ISS just last month--aboard a Russian Soyuz vehicle, just as the Expedition 1 crew did, although other crews traveled via the shuttle. Over the years, in addition to visiting space shuttle crews, there have even been a couple of paying "space tourists" and other short-term visitors who took advantage of the ARISS gear onboard. More recently, Russian Space Forces Test Cosmonaut Yuri Shargin--who arrived with the Expedition 10 crew--completed two ARISS contacts with school groups in Europe.

The Expedition 10 crew is not expected to begin its own series of school group contacts until the week of November 15 at the earliest. Unscheduled ham radio activity by crew members typically is suspended during crew changeover periods. As of November 4, the NA1SS FM voice repeater remained off and the ARISS Phase 2 equipment was back in packet mode under the RS0ISS call sign.

This week marked a first when Chiao cast his vote in the November 2 presidential election while orbiting 230 miles above Earth. A law the Texas State Legislature passed in 1997 allows astronauts to vote electronically from space. Chiao submitted his electronic ballot to his county clerk's office via e-mail.

Some statistics: Since the Expedition 1 crew carried out the first successful ARISS school group contact--with Luther Burbank Elementary School near Chicago on December 21, 2000--ISS crews have racked up 150 similar Amateur Radio contacts. Approximately two-thirds of them have been direct, 2-meter QSOs, while the rest were carried out via "telebridge" stations, where two-way audio was teleconferenced to the school via an Earth station

convenient to QSO NA1SS directly.

The crew holding the record for the most ARISS school group contacts was Expedition 3. Commander Frank Culbertson, KD5OPQ, answered questions via ham radio posed by students at 22 different schools. Culbertson also activated NA1SS during the 2001 Jamboree On The Air (JOTA) scouting event.

NASA recently announced that after an extensive review, it's planning its return-to-flight shuttle mission, STS-114, for a launch window that opens next May. ARISS International Chairman Frank Bauer, KA3HDO, says PCSat 2--an externally mounted ham radio payload--is expected to fly on that shuttle flight, which also will mark the return of three-person ISS crews.

"We will also be able to better negotiate the delivery of our computer, which is essential for the SSTV system," Bauer added.--some information from NASA

#### FCC FINES CB OPERATOR-AMATEUR LICENSEE, CB SHOP

The FCC has imposed large fines on a Washington CB operator who now holds a Technician class amateur license and on an Ohio CB shop that's run by an apparent amateur licensee. In an October 18 Forfeiture Order (NOF), the Commission levied a \$10,000 fine on Robert A. Spiry, now KD7TRB, of Tacoma, for unauthorized operation on 11 meters that also involved the use of uncertificated equipment and the use of an illegal external RF power amplifier. The alleged violations occurred in 2002.

Following up on "numerous complaints of interference to home electronics equipment" from CB transmissions, agents from the FCC's Seattle Field Office tracked the interfering transmissions to Spiry's home and vehicle. "The agent observed signal levels that appeared to be significantly higher than those expected from a legal CB transmitter," the FCC said in a subsequent Notice of Apparent Liability (NAL).

The FCC says its agents conducted inspections of Spiry's station in April and November 2002 and determined that Spiry was operating uncertificated transmitters and using a linear amplifier attached to his CB transmitter in violation of Part 95 rules. The FCC said it advised Spiry that his use of unauthorized and non-certified equipment voided his blanket authority to operate his CB station, but he continued to operate anyway.

The Commission said that when Spiry responded to the December 2002 NAL, he did not dispute the facts as the FCC had presented them. But, Spiry told the FCC that he had given up CB, removed his CB antenna and obtained an Amateur Radio license. Spiry's ham ticket was granted December 2, 2002.

Spiry also said he didn't realize that the fine for such violations could be so high and that he is unable to pay it. The Commission says Spiry presented no evidence to back up that claim, however, and it's not persuaded that Spiry's "remedial efforts" warrant any reduction in the fine.

In an unrelated case, the Commission issued an NOF October 21, fining Paladen Communications Inc, of North Jackson, Ohio, \$7000 for "willfully and repeatedly" selling illegal CB external RF power amplifiers.

During a July 2003 visit to Paladen, agents from the FCC's Detroit office reported observing a Palomar CB linear on sale for \$250. The agents informed Arthur L. Dundorf, now apparently KC8ZQI, and Preston L. Dundorf, now apparently KC8ZKE, of Paladen, that CB linears could not be legally sold and, in October 2003, issued a Citation informing Paladen of the violations and penalties that could result. Both men obtained Technician tickets in April 2004.

In a response, Paladen proprietor Preston Dundorf told the FCC that Paladen was unaware it was violating marketing rules and would not violate them in the future. But last January, the Detroit Office

received a complaint that Paladen was continuing to sell CB linears. An agent who followed up on the report was offered a Palomar 100 W linear amplifier for \$124.

The FCC says Paladen did not respond to a May 2004 NAL alleging willful and repeated violation of the Communications Act and §2.815 of its rules. As a result, the Commission affirmed the forfeiture based on the information before it.

The FCC gave Spiry and Paladen Communications 30 days to pay the fines.

#### USEFUL LIFE OF UO-22 SATELLITE APPEARS OVER

According to AMSAT-UK, the UO-22 satellite is not in good shape, and its useful life may be over.

"The SSTL [Surrey Satellite Technology Limited] Ground Station control centre at the University of Surrey have attempted several times in recent weeks to reactivate the satellite," AMSAT-UK reports. "After one attempt it did come back to life, but only briefly. Other attempts have failed completely."

The SSTL ground control station may make further attempts to reactivate UO-22, "but it seems unlikely that they will be completely successful." The cause of the satellite's failure is not known for certain, but SSTL believes it may be related either to the spacecraft's batteries or to the fact that the satellite is very hot due to orbital precession, which has put it generally in full sunlight. The elevated temperature has been causing problems with the receivers as well as with the batteries.

Launched on July 17, 1991, from Kourou, French Guiana, UO-22 has served for many years as the 9600 baud store-and-forward satellite for the Amateur Radio packet radio worldwide SatGate service, which linked packet radio networks in many countries. AMSAT-NA reports UO-22 as "non-operational." For further information on UO 22 contact Jim Heck, G3WGM [g3wgm@amsat.org](mailto:g3wgm@amsat.org).



PACKET UPDATE

A good source of information is on the internet. Many good Ham Radio sites are out there to look at. One very good site is [www.qrz.org](http://www.qrz.org). This site offers recent Ham Radio news coverage of ham topics. The site also has an online for sale section for buying and selling radio equipment from Ham Trader. They have an event calendar to allow you to see events going on around the country. Another nice feature are the links to more than 4500 ham related sites. If you get on the internet take a look at this excellent website for Amateur Radio Information.

James Butler  
KB4LJV

AMATEUR HARDWARE UPDATE .....

When operating where 115 volt AC power is available we still need a 13.8 VDC power supply on most new rigs. For QRP rigs this supply needs to be in the 1 to 2 amp range. This month's project is the QRP POWER SUPPLY. The unit is made out of a surplus open frame power supply rated at about one amp. On the back I placed quick connect plug in connector for the output. On the front I have a power LED and power switch. The supply easily runs a 2 to 3 watt QRP rig. I built up the unit in a surplus printer switcher box and painted it up in Heathkit colors to match the other station equipment. The little supply does a great job, takes up little space, and matches my other QRP equipment.

I will have the QRP POWER SUPPLY at the meeting to show and answer question son for those who wish to build up their own unit.

SEE YOU AT THE MEETING .....  
James Butler, KB4LJV



# NOVEMBER

2004

<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>5</b> Regina, KF4IGS	<b>6</b> Steven, KF4IVY
<b>7</b>	<b>8</b> Eddie, KF4QFW	<b>9</b> <b>Delta Club Meeting</b> <b>7:00 PM</b> Bill, KG4YMN Steve, KI4BMD Roger, K4KCU	<b>10</b> Roland, KD4DWD	<b>11</b>	<b>12</b>	<b>13</b>
<b>14</b>	<b>15</b> Tony, K4PWW	<b>16</b> Brad Frearson Michelle, KG4IZZ	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>21</b> James, KG4YKZ	<b>22</b> Jacob, KD4NUH	<b>23</b> Stan, AC4CQ	<b>24</b> Lee, WC4W	<b>25</b>	<b>26</b>	<b>27</b>
<b>28</b> Melissa Morrow Barbara, KA5CFB	<b>29</b>	<b>30</b> Kenneth, N4WAH Jim, NI4C Lauren, KF4LZM				

# DECEMBER

2004

<i>Sun</i>	<i>Mon</i>	<i>Tue</i>	<i>Wed</i>	<i>Thu</i>	<i>Fri</i>	<i>Sat</i>
			<b>1</b> Robert, KG4CMA	<b>2</b> <b>MARA Club Meeting</b> <b>7:00 PM</b>	<b>3</b> Fred, KJ2K	<b>4</b> Alex, KE4GYR
<b>5</b> James, WA4RW	<b>6</b> Jim, KI4I	<b>7</b>	<b>8</b>	<b>9</b> Mary, NV4Z	<b>10</b>	<b>11</b>
<b>12</b> Jamie, KC5AXC Frederick, AB4HS	<b>13</b>	<b>14</b> <b>Delta Club Meeting</b> <b>7:00 PM</b>  John, K3LK	<b>15</b>	<b>16</b> Scott, N2WMD	<b>17</b> Jonathan Kagoo	<b>18</b> James, N5WFF
<b>19</b> Charles, W4BIV	<b>20</b> Jason, KI4BXX	<b>21</b> Shannon, KI4DIX	<b>22</b>	<b>23</b>	<b>24</b> Marion, N4VTB	<b>25</b>
<b>26</b> Darrell, KE4DHF Brenda, KE4MKK	<b>27</b>	<b>28</b>	<b>29</b> Craig, KN4FC James Pace	<b>30</b> Bob, KF4NDH	<b>31</b> Don, KA4BMI	



**CONTEST CALENDAR**

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

**North American Collegiate ARC Championship--CW** (Phone, Nov 20-22). This is a competition based on Sweepstakes results between club stations at institutions of higher education beyond the high school level. Clubs enter Sweepstakes in any of the valid entry categories. Separate champions will be determined for CW, Phone and Combined scores. For more information:

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

**High Speed Club CW Contest**, sponsored by the Radio Telegraphy High Speed Club (HSC) from 0900Z-1100Z and 1500Z-1700Z Nov 7. Frequencies: 80-10 meters, 10-30 kHz above band edge. For more information: [www.dl3bzz.de/](http://www.dl3bzz.de/).

**IPA Contest--Phone/CW**, sponsored by The International Police Association Radio Club. CW from 0600Z-1000Z and 1400Z-1800Z Nov 6, Phone from 0600Z-1000Z and 1400Z-1800Z Nov 7. Frequencies: 80-10 meters with 15-minute band change rule. For more information: [www.ipa-rc.de](http://www.ipa-rc.de).

**ARRL November Sweepstakes--CW**, 2100Z Nov 6 to 0300Z Nov 8. (Phone from 2100Z Nov 20 to 0300Z Nov 22, see Oct *QST*, p 107).

**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.

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 (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 (1,2,3,5,9,10,14, 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  
kgreggc@c-a-c.com (4, 6, 8, 11, 15)

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

**Ukrainian DX Contest--CW/SSB/RTTY**, sponsored by the Ukrainian Amateur Radio League and the Ukrainian Contest Club from 1200Z Nov 6 to 1200Z Nov 7. Frequencies: 160-10 meters, with 10 minute band change rule. For more information: [www.ucc.zp.ua](http://www.ucc.zp.ua).

**DARC 10-Meter Digital "Corona"--RTTY/AMTOR/PACTOR/PSK31/Clover**, sponsored by Deutscher Amateur Radio Club from 1100Z-1700Z Nov 7. Frequencies (MHz): 28.050-28.150, work stations once per mode. For more information: [www.darc.de/referate/dx/cqdlcont/fgdcc.htm](http://www.darc.de/referate/dx/cqdlcont/fgdcc.htm)

**Radio Club of America QSO Party, SSB/AM**, from 2100Z Nov 6-0100Z Nov 7 on 14.280 MHz and 0100Z--0500Z Nov 7 on 3.910 MHz. Exchange: RST, QTH, name, equipment used. RCA members sign their calls /RCA. For



more information: [www.radio-club-of-america.org](http://www.radio-club-of-america.org).

**Japan International DX Contest**--Phone, from 0700Z Nov 13 to 1300Z Nov 14 (see Jan *QST*, p 98, or <http://jidx.org/jidxrule-e.html>).

**50th Anniversary European DX Contest (WAEDC)**--RTTY, from 0000Z Nov 13 to 2359Z Nov 14. Same rules as WAEDC Phone and CW, except everyone works everyone. QTC can only be exchanged between continents. The WAEDC Super Bowl is new this year at [www.darc.de/referate/dx/xedcws.htm](http://www.darc.de/referate/dx/xedcws.htm) (see Aug *QST*, p 94, or [www.waedc.de](http://www.waedc.de)).

**OK/OM DX Contest**--CW, sponsored by the Czech Radio Club (CRC) from 1200Z Nov 13-1200Z Nov 14. Frequencies: 160-10-meters. For more information: <http://okomdx.radioamater.cz>

**ARRL November Sweepstakes**--Phone (see Nov 6-8).

**North American Collegiate ARC Championship**--Phone (see Nov 6-8).

**LZ DX Contest**--CW/SSB, sponsored by the Bulgarian Federation of Radio Amateurs from 1200Z Nov 20-1200Z Nov 21. Frequencies: 80-10 meters with 10 minute mode change rule. For more information: [www.qsl.net/lz1fw/contest](http://www.qsl.net/lz1fw/contest).

**RSGB 1.8MHz Contest**--CW, from 2100 Nov 20 to 0100Z Nov 21. (See Feb *QST*, p 103) For more information: [www.rsgbhfcc.org](http://www.rsgbhfcc.org).

**CQ WW DX Contest**--CW, from 0000Z Nov 27 to 2400Z Nov 28 (see Oct *QST*, p 99, or <http://cqww.com/>).

**ARRL 160 Meter Contest**--2200Z Dec 3-1600Z Dec 5. See Nov *QST*, p 105.

**Top Band Sprint**--CW/SSB, sponsored by QRP ARCI, 0000Z-0600Z Dec 2. Frequencies: 160-

meters only. For more information: <http://2hams.net/ARCI/index.htm>

**ARRL International EME Contest**--0000Z Dec 4-2400Z Dec 5, 50 -- 1296 MHz. See Sep *QST*, p 98.

**TARA RTTY Mêlée**--sponsored by the Troy Amateur Radio Assn, 0000Z-2400Z Dec 4. For more information: [www.n2ty.org/seasons/tara\\_melee\\_rules.html](http://www.n2ty.org/seasons/tara_melee_rules.html).

**TOPS Activity Contest**--CW--sponsored by TOPS, from 1800Z Dec 4-1800Z Dec 5. Frequencies: 80 m.

**Holiday Spirits Homebrew CW Sprint**--sponsored by the QRP ARCI, 2000Z-2400Z Dec 5. Frequencies (MHz)--1.810, 3.560, 7.040, 14.060, 21.060, 28.060 kHz. For more information: <http://2hams.net/ARCI/index.htm>

**ARRL 10 Meter Contest**--0000Z Dec 11-2400Z Dec 12. See Nov *QST*, p 104.

**28 MHz SWL Contest**--sponsored by Lambert Wishake NL-10175, coincident with ARRL 10-Meter contest.

**Great Colorado Snowshoe Run**--CW, sponsored by the Colorado QRP Club from 0200Z-0359Z Dec 11. Frequencies: 40 meters only. For more information: [www.cqc.org/contests/snow2004.htm](http://www.cqc.org/contests/snow2004.htm).

**North American Meteor Scatter Contest**--any mode, sponsored by the WSJTGROU from 0000Z Dec 11-0700Z Dec 15 (the Geminids meteor shower). Frequencies (MHz): 50, 144, 222, 432, via meteor scatter. For more information: [www.ykc.com/wa5ufh/Rally/NAHSMS.htm](http://www.ykc.com/wa5ufh/Rally/NAHSMS.htm)

**OK DX RTTY Contest**--sponsored by the Czech Radio Club, 0000Z-2400Z Dec 18. For information: [www.crk.cz/ENG/DXCONTE.HTM](http://www.crk.cz/ENG/DXCONTE.HTM).

**Stew Perry Top Band Distance Challenge**--CW, sponsored by the Boring Amateur Radio Club, 1500Z Dec 18-1500Z Dec 19. For more information:

<http://jzap.com/k7rat/stew.rules.txt>.

**PSK31 Death Match**--PSK31 and PSK63, sponsored by the Michigan DX Association, 0000Z Dec 18-2400Z Dec 19. Frequencies: 80-6 meters, PSK31 and PSK63 count as separate "bands". For more information: [www.mdxa1.org/deathmatch.html](http://www.mdxa1.org/deathmatch.html).

**Russian 160-Meter Contest**--CW/SSB--sponsored by *Radio Magazine*, from 0000Z-0200Z Dec 18. For more information: [www.radio.ru/cq/contest/rule](http://www.radio.ru/cq/contest/rule) (Cyrillic only).

**Croatian CW Contest**--sponsored by Hrvatski Radioamaterski Savez (HRS), from 1400Z Dec 18-1400Z Dec 19. Frequencies: 160-10 meters. For more information: [www.qsl.net/ctc/](http://www.qsl.net/ctc/).

#### SPECIAL EVENTS

**Knokke-Heist, Belgium:** UBA Section ONZ, ON60CLM. 1200Z **Nov 5**-1200Z **Nov 9**. Liberation of our town in 1944 by allied forces--60th Canadian Liberation March. 28.545 21.245 14.145 7.045. Certificate. ON60CLM, Rijks-wachtlaan 37, Postbox 1006, B-8300 Knokke-Heist, Belgium. [www.on4clm.be](http://www.on4clm.be).

**Butler, PA:** Butler County Amateur Radio Association, W3UDX. 1200Z-1700Z **Nov 6**. Veterans Day. General bands 80 to 10. QSL. BCARA, PO Box 1787, Butler, PA 16003.

**Bonita Springs, FL:** US Coast Guard Auxiliary Wiggins Pass, FL, W4W. 1300Z-2100Z **Nov 6**. US CG Auxiliary 65th and Canadian CG Aux 26th anniversaries. 28.380 21.375 14.275 7.275. QSL. Merle Zeek, W4MWZ, 86 8th St, Bonita Springs, FL 34134-7452.

**Cincinnati, OH:** US Coast Guard Auxiliary, W8C. 1400Z-2100Z **Nov 6**. Div 5 8ER commemorating USCGA 65th anniversary and ISAR. 28.405 21.405 14.345 7.240. QSL. Dave Stroup, 6095 Drum Hill Ln, Milford, OH 45150-2275. [www.uscgaux.org/~08205/](http://www.uscgaux.org/~08205/).

**Cheverly, MD:** US Coast Guard Auxiliary, K3A. 1400Z-2100Z **Nov 6**. 65th anniversary of USCGA. 28.350 21.340 14.280 7.282. QSL. W. Joe Saunders, K3UAL, 1520 Jutewood Ave, Hyattsville, MD 20785.

**Escondido, CA:** US Coast Guard Auxiliary District 11S, N6C. 1600Z-2300Z **Nov 6**. USCG Auxiliary 65th and Canadian CG Auxiliary 26th anniversaries and ISAR event. 21.350 14.250 14.070 7.250. QSL. Ed Cooper, N6NP, 611 Maze Glen, Escondido, CA 92025.

**Flowery Branch, GA:** United States Coast Guard Auxiliary, Division 2, District 7, W4B. 1400Z-2200Z **Nov 6**. Commemorating the 65th anniversary of the US Coast Guard Auxiliary and the 26th anniversary of the Canadian Coast Guard Auxiliary. 21.375 14.275 7.275. QSL. Albert Miles, KG4VIB, 3325 Rangers Gate Dr, Marietta, GA 30062.

**Marco Island, FL:** US Coast Guard Auxiliary, District 7, N2K. 1300Z-2100Z **Nov 6**. USCGAUX 65th anniversary ISAR 2004. 28.325 21.310 14.330 7.250. QSL. Robert B. Witte, PO Box 1814, Marco Island, FL 34146.

**Media, PA:** US Coast Guard Auxiliary District 5-NR, K3G. 1300Z-2100Z **Nov 6**. 65th anniversary of the US Coast Guard Auxiliary. 28.330 21.330 14.270 7.270. QSL. Daniel F. Amoroso, 196 Dam View Dr, Media, PA 19063.

**Raymond, ME:** US Coast Guard Auxiliary D-1NR Radio Raymond, K1G. 0900Z-1600Z **Nov 6**. 65th anniversary of the USCG Auxiliary and the International SAR Competition 2004 (N41). 28.320 21.315 14.310 14.250 7.262 7.250 146.520. Certificate. Keith C. Morton, W1NKH, PO Box 809, Raymond, ME 04071-0809.

**St Thomas, VI:** US Coast Guard Auxiliary, N2A. 1300Z-2000Z **Nov 6**. 65th Anniversary of the US Coast Guard Auxiliary. 28.320 21.310 14.260. QSL. Deborah Thomas, PO Box 9280, St Thomas, VI

00801.

**Baton Rouge, LA:** USS *Kidd* ARC/Baton Rouge ARC, W5KID. 1500Z-2300Z **Nov 11**. Veterans Day. General class bands, 14.250 to 14.320; CW QRP subbands. QSL. W5KID, c/o USS *Kidd* Museum, 305 S River Rd, Baton Rouge, LA 70802.

**Nutley, NJ:** Robert D. Grant United Labor Amateur Radio Association, N2UL. 1200Z-2200Z **Nov 11**. CQ Veterans Day. 449.975 28.460 14.260. Certificate. RDGULARA, c/o WA2VJA, 112 Prospect St, Nutley, NJ 07110-0716.

**Marysville, KS:** Marshall County Amateur Radio Club, W0GCJ. 1400Z **Nov 11**-0500Z **Nov 12**. 150th anniversary of Marysville and the 1st KS Territory Post Office. 14.250 14.050 7.250 7.050. Certificate. David Crawford, 905 Pomerory, Blue Rapids, KS 66411. [www.qsl.net/w0gcj/event.htm](http://www.qsl.net/w0gcj/event.htm).

**Albuquerque, NM:** Albuquerque Amateur Radio Club, N5VA. 1500Z **Nov 11**-0300Z **Nov 12**. Commemorating Veterans Day at VA Hospital. 28.460 21.360 14.260 7.250. QSL. Thomas R. Lea, 1009 Clancy Dr NE, Albuquerque, NM 87112. [www.qsl.net/albuquerquearc/index.html](http://www.qsl.net/albuquerquearc/index.html).

**Arlington Heights, IL:** Armored Force Amateur Radio Net, KA9NLX. 1800Z **Nov 11**-2200Z **Nov 14**. Veterans Day. 21.375 14.325 7.283 7.040. Certificate. John Paskevicz, 1423 North Ridge Ave, Arlington Heights, IL 60004. [jpaskev@aol.com](mailto:jpaskev@aol.com).

**Madison, MN:** West Central Minneota Amateur Radio Club, K0D. 1400Z-2200Z **Nov 13**. Annual Norsefest (Lutefisk) Celebration. 28.450 21.350 14.260 7.260. Certificate. WA0KNP, 221 10th Ave, Madison, MN 56256.

**Stuart, FL:** Martin County Amateur Radio Association, K4ZK. 1300Z-1800Z **Nov 13**. 30th anniversary of MCARA. 14.253. Certificate. MCARA, PO Box 1901, Stuart, FL 34995.

**Waterloo, IA:** Five Sullivan Brothers Amateur Radio Club, W0FSB. 1500Z **Nov 13**-2200Z **Nov 13**.

Anniversary of the loss of USS *Juneau* and the 5 brothers. 146.340 21.240 14.240 7.240. Certificate. Five Sullivan Brothers ARC, 4015 Independence Ave, Waterloo, IA 50703.

**San Antonio, TX:** San Antonio Radio Club, W5SC. 0000Z **Nov 13**-0600Z **Nov 14**. *Coral-Gold*: San Antonio Radio Club's 85th anniversary. 28.360 21.360 14.260 7.260. QSL. Steve Cerwin, 1619 CR 270, Mico, TX 78056. [www.w5sc.org](http://www.w5sc.org).

**Little Rock, AR:** Arkansas Section, ARRL, CAREN, ARES Club, W5C. 1500Z **Nov 13**-2200Z **Nov 14**. William Jefferson Clinton Presidential Library dedication. 21.360 14.260 14.040 7.250. Certificate. Dennis Schaefer, 181 Schaefer Dr, Dover, AR 72837. <http://www.arkansashams.org/>

**Hackensack, NJ:** WW2 Submarine USS *Ling*, NX2ND. 1300Z-2100Z **Nov 14**. 4th anniversary of NX2ND/USS *Ling*. 21.380 14.280 14.055 7.040. Certificate. Bill Stagg, KC2BLN, 38 Rutgers Dr, Oakland, NJ 07436. [www.10-70.org](http://www.10-70.org).

**Paulden, AZ:** Yavapai Amateur Radio Club, K7NRA. 1500Z-2400Z **Nov 17**. From Gunsite Academy to celebrate NRA's 133rd birthday. 28.440 21.340 14.240 7.240. Certificate. Mike Campbell, K7NRA, 404 Lampliter Village, Clarkdale, AZ 86324. [www.w7yrc.org/specevent.htm](http://www.w7yrc.org/specevent.htm)

**Joplin, MO:** Joplin Amateur Radio Club, W0IN. 1900Z-2300Z **Nov 20**. Letha Dangerfield, W0OUD, Commemorative Special Event Station from the Joplin Association for the Blind. SSB: 14.260 CW 15 40 m. QSL. Joplin Amateur Radio Club, PO Box 2983, Joplin, MO 64803. [www.joplin-arc.org](http://www.joplin-arc.org).

**The Villages, FL:** The Villages Amateur Radio Club, K4VRC. 1600Z-2100Z **Nov 27**. Celebrating the Club's Ninth Anniversary. 14.260 7.030 147.030 (+) Gen bands. Certificate. Don Edlund, 9616 SE 168 Elderberry Pl, The Villages, FL 32162.

**Various, USA:** 10-10 International, W6OI. 0000Z **Nov 27**-2400Z **Nov 28**. Celebrating four decades

and just under 75000 members in all 10 call areas. 28.340-28.400. QSL. Jack Moore, K5CC, 371 Ridge Creek Ln, Bulverde, TX 78163. Certificate for working all areas. [www.10-10.org](http://www.10-10.org).

**Plymouth, MA:** Whitman Amateur Radio Club, WA1NPO. 1400Z **Nov 27**-2000Z **Nov 28**. The first Pilgrim landing in Plymouth, MA. 28.360 14.280 7.250 3.890. Certificate. Bruce Hayden, NI1X, 1000 Locust St, Raynham, MA 02767.

**Quincy, IL:** Western Illinois Amateur Radio Club, K9C. 0000Z **Dec 3**-2400Z **Dec 14**. Quincy, Illinois, Christmas Avenue of Lights. 28.325 21.325 14.250 7.250 SSB CW RTTY PSK. Certificate. Robert G. Mitchell, 816 Long Dr, Quincy, IL 62305.

**Duluth, MN:** Arrowhead Radio Amateur Club, W0GKP. 1500Z-2300Z **Dec 4**. 75th Anniversary of club affiliation with ARRL. 21.375 14.280 7.275 3.875. Certificate. Robert Schulz, 115 Eden Ln, Duluth, MN 55805-1533. [www.qsl.net/w0gkp/](http://www.qsl.net/w0gkp/).

**Pittsburgh, PA:** Carnegie Science Center, NY3EC. 1500Z-2000Z **Dec 4**. 50th Anniversary Miniature Railroad and Display. 147.03 14.250 7.265. Certificate. Art Mueller, WA3BKD, 1532 Millers Run Rd, McDonald, PA 15057. [www.miniaturerailroad.org](http://www.miniaturerailroad.org).

**Various, United States:** National Weather Service and ARRL. 0000Z-2400Z **Dec 4**. Sixth annual SKYWARN Recognition Day (SRD). See page 72 in this issue or go to <http://hamradio.noaa.gov> for complete information.

**Grand Junction, CO:** Western Colorado Amateur Radio Club, N0W. 0000Z **Dec 4**-0000Z **Dec 5**. 2004 SKYWARN Recognition Day at Walker Field Airport. 28.460 21.260 14.260 7.260. QSL. Bob Vogel, W0RY, 155 Ponderosa Dr, Fruita, CO 81521. [www.wcarc.ws/status.htm](http://www.wcarc.ws/status.htm).

**Homestead, FL:** Everglades Amateur Radio Club, W4SVI. 1600Z **Dec 4**-1600Z **Dec 5**. Commemorating the dedication of Everglades National Park by

President Harry S. Truman, December 6, 1947. SSB 40 20 15 10 m. Certificate. Everglades Amateur Radio Club, PO Box 900113, Homestead, FL 33090-0113.

**Linthicum, MD:** Historical Electronics Museum ARC, W2W. 1400Z **Dec 4**-2200Z **Dec 7**. Commemorating the 1941 attack on Pearl Harbor. 14.241 14.041 7.241 7.041. Certificate. HEMARC-W2W, PO Box 742, MS 4015, Baltimore, MD 21203. A QSL card may be requested. [www.qsl.net/w3hem](http://www.qsl.net/w3hem)

**Baton Rouge, LA:** USS *Kidd* ARC/Baton Rouge ARC, W5KID. 1500Z-2300Z **Dec 7**. Pearl Harbor Day. General class bands, 14.250 to 14.320; CW QRP subbands. QSL. W5KID, c/o USS *Kidd* Museum, 305 S River Rd, Baton Rouge, LA 70802.

**Nazareth-Bethlehem, PA:** Christmas ARC and Delaware-Lehigh ARC, WX3MAS. 1400Z **Dec 11**-0200Z **Dec 13**. Annual Christmas greetings from the twin Christmas Cities. 28.465 21.365 14.265 7.270 3.970. Certificate. CCARC/DLARC, WX3MAS, Greystone Building, Gracedale Complex, RR 8, Nazareth, PA 18064. [www.dlarc.org](http://www.dlarc.org).

**Delmar, NY:** Marconi Net, W2M. 0200Z-0400Z **Dec 13**. Commemorating the first anniversary of the Marconi Net. 3.872. Certificate. Fred Thumhart, Jr, 5 Old Oxe Rd, Delmar, NY 12054.

**Santa Ana, CA:** Anaheim Police Radio Club, K6B. 0000Z **Dec 16**-2359Z **Dec 30**. 60th anniversary of the Battle of the Bulge WW2. 21.350 18.150 14.250 7.250. QSL. Mark McMullin, KM6HB, PO Box 27271, Santa Ana, CA 92799. [km6hb@arrl.net](mailto:km6hb@arrl.net).

**Belen (Bethlehem), NM:** Valencia County Amateur Radio Association, KC5OUR. 1400Z **Dec 18**-2359Z **Dec 26**. Celebrating the Christmas season from Bethlehem, New Mexico. 28.272 21.272 14.272 7.272. QSL. VCARA, PO Box 268, Peralta, NM 87042.

**Lake Charles, LA:** , N1CC. 0000Z **Dec 24**-2359Z **Dec 25**. Christmas Carol. 28.475 21.375 14.275 7.245. QSL. Via <http://qrz.com> listing or <http://users.aol.com/N1CC>.



**TREASURER'S REPORT**

TREASURER'S REPORT October 2004  
Date: 01-November-04

Beginning Balance	\$5,472.01
<b>INCOME</b>	
Ticket Sales	\$160.00
<b>TOTAL INCOME</b>	<b>\$160.00</b>
<b>EXPENSES</b>	
Memphis Amateur Electronics (Prizes)	\$1,499.45
<b>TOTAL EXPENSES</b>	<b>\$1,499.45</b>
Ending Balance	\$4,132.56

**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

**SPARKS** is published monthly by the Delta Amateur Radio Club and is mailed 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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P.O. Box 750482  
Memphis, TN 38175-0482**

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