

CLUB OFFICERS

COMMITTEE CHAIRMAN

President: Mike Brannock, KG4IES
V. President: Mark Currens, KI40JG
Secretary: Paul Harrington III, KB4ENQ
Treasurer: Steve McFadden, KA4TJD

Program: Steve McFadden, KA4TJD
Emergency: Jerry Mueller, KC4WZ0
Field Day: Paul Harrington III, KB4ENQ
Web Site: Jerry Mueller, KC4WZ0
Net Control: Paul Harrington III, KB4ENQ
Repeater: Steve McFadden, KA4TJD
News Letter: Paul Harrington III, KB4ENQ
Fund Raising: Todd Rose, KE4YAH
Adopt-a-Highway: Paul Harrington III, KB4ENQ

Trustee for KY4WC Jerry Mueller, KC4WZ0

The Woodford County Amateur Radio Club meets on the first Wednesday of each month at 7:00 p.m., at the Versailles Fire Station #2 on Big Sink Pike.

Anyone interested in Amateur Radio is cordially invited.

The Club holds an ARES practice net Thursday evenings at 8:00 p.m. Nets are held on the 145.330 repeater.

The Woodford County Amateur Radio Club Home Page is located on the internet at <http://www.ky4wc.org>. The Club receives e-mail at ky4wc@ky4wc.org. E-mail may be sent to the membership by sending a message to maillist@ky4wc.org.

KySat Space Express Mission Update:

KySat Space Express Mission Update
Posted by: "Tyler J Doering"
tyler.doering@gmail.com: Fri Dec 7,
2007 4:42 pm (PST)Micro Trak Group

Thank you to everyone who wished us luck and showed support for the mission. Sorry I was unable to respond to the past emails and discussion but I should have more time moving forward to answer any questions.

On December 5, 2007 at 09:06.26 MST, Kentucky Space Express was launched from the Small Missile Range Complex at the White Sands Missile Range in New Mexico. It was only fitting that Kentucky's first space launch should take place at White Sands Missile Range where the United States learned about rocketry and space.

Over the past eight months, the KySat student team designed and built a computer controlled sensor pack and radio telemetry payload along with a portable ground station to receive

and record the telemetry. Three such ground stations were setup across the missile range to receive data from the payload as it traveled in a suborbital trajectory to an altitude of 127 km.

At launch, sensors in the payload detected ignition of the booster and started the mission timer, started logging flight data and started transmitting telemetry packets to the ground stations. At approximately T+1.2 seconds the solid rocket booster had expended 50-60% of its propellant and had reached approximately 1/2 mile in altitude. The vehicle had transitioned through supersonic flight and was approaching Mach 2. At this time the vehicle was accelerating at 100 Gs and temperature of the nose is estimated to have been 1000 degrees F. For unknown reasons, at this point the vehicle departed stable flight. As the remainder of the solid fuel was expended the vehicle performed a

Continued inside, page 3:

Minutes of the December, 5th 2007 Meeting

The meeting was called to order at 7:10 pm. by the President, Mike Brannock, KG4IES.

Minutes of the last meeting: Jerry Hatchett, N8NZF seconded a motion by Steve McFadden, KA4TJD, that the minutes be accepted. The motion carried.

Treasurers Report: The Treasurer's report indicated an opening balance of \$\$\$\$\$. A check for \$\$\$\$ was written to cover postage. The resulting balance is \$\$\$\$\$. Todd Rose, KE4YAH seconded a motion made by Paul Harrington III, KB4ENQ that the Treasurer's report be accepted. The motion carried.

Old Business: Suggestions for next year's parade:

Block entry to small parking lot near the "drop off" information area.

Publish the setup map in the paper and with the invitation mailing.

Add speed limit signs.

Provide sand bags to keep map from blowing over.

Decorate sign bases.

New Business:

Todd Rose, KE4YAH seconded a motion made by Jerry Hatchett, N8NZF, to accept the nominations standing as next years officers (no opposition in any race). The motion carried.

Todd Rose, KE4YAH seconded a motion made by Steve McFadden, KA4TJD that the meeting be adjourned. The motion carried at 7:30 pm. The December business meeting was followed by the Club Christmas Dinner. A big Thank You to Diane McFadden for making sure that we had every thing we needed to have a successful pot luck.

Net Report

11/29/07	12/6/07	12/13/07
KA4TJD	KG4IES	KB4ENQ
KG4VAR	KI40JG	KE4GNX
WA4PCS	N8NZ	KE400I
KE4AIE	KE400I	KI4QQF
KI4YTM	KG4VAR	KI40JG
KI4ZWW	KE4AIE	KD4GNX
KE400I	KI4TLY	KE4AIE
KI4QQF	AC4YD	KI40DT
KI4TLY	N4LG	
	KI4ZWW	
	KB4ENQ	

Attendance:

Mike Brannock	KG4IES
Paul Harrington III	KB4ENQ
James Harrington	KF4LRK
Debbie Harrington	KE4GNX
Todd Rose	KE4YAH
Lee Ann Rose	
Ali Rose	
Steve McFadden	KA4TJD
Diane McFadden	
Jerry Hatchett	N8NZF
Drew Chandler	KI4TFI
Diana Chandler	
Andrea Chandler	
Keith Slugantz	
Cheryl Slugantz	

Congradulations to Jerry Hatchett, N8NZF on his upgrade to Extra!!

From the ARRL Newsletter:

Sunair Electronics and FlexRadio Working Together: Sunair Electronics, announced in November that it has finalized an agreement with FlexRadio Systems to purchase certain customized state-of-the-art software defined high frequency radios (SDR) and accessory items for sale to Sunair's government and military customers. A software defined radio is a major departure from traditional designs where all radio frequency functions and processing are accomplished with hardware. In an SDR, many of the processes are accomplished with
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A note from net control: Thanks to Steve McFadden, KA4TJD, and Mike Brannock, KG4IES for handling the net in my absence a couple of times since the last publication. Also thanks again to all who have covered net activities for me over the last year.

From Page 1: high-G "corkscrew" maneuver and, presumably, the vehicle broke up.

At approximately T+7.5 seconds (6.3 seconds later) an encoded data packet from the payload was received and decoded at a ground station indicating that the student designed and built payload not only survived the stress of the launch, but also the breakup of the launch vehicle. No other packets were received.

The radar systems at the White Sands Range Control tracked several pieces of debris and localized their impact point. Unfortunately, due to the location of the impact, range safety issues prevented any attempt to recover the debris this week. We are working with White Sands to have qualified (unexploded ordinance) personnel search the areas when possible.

As we move forward, the KySat team will study radar data and work with the launch vehicle providers to analyze the flight in an attempt to discover the source of the vehicle failure. The cause may or may not be determined. Regardless, we are very pleased that the KySat payload and ground stations performed as intended even in these very difficult circumstances. We are also proud of the student team who exceeded expectations in carrying out this complex mission. While Space Express did not reach its target in space, it was a bold first step toward establishing Kentucky's space program and the lessons learned from this mission will serve the KySat team well as we move forward with the program and our plans for orbital flights starting in the next year.

Let me know if anyone has any questions or comments. Thanks Tyler J Doering Graduate Research Assistant

From the ARRL Newsletter:

From page 2: high speed digital processors allowing for much simpler hardware designs and allowing for extreme flexibility with respect for filtering and user specified functionality. HF radios operate in the frequency range of 2-30 MHz and are designed for long range global communications circuits. Sunair President Mark Allen said, "FlexRadio has

been refining their design for more than four years. FlexRadio has combined extremely innovative software and graphical interfaces with RF hardware to produce a product which is truly state of the art when it comes to high frequency (HF) radio. This product will help our customers with their critical national security communications requirements." Gerald Youngblood, President of FlexRadio, said, "SDRs represent the most significant change in communications technology in well over half a century, allowing flexibility and performance not practical with traditional analog approaches. We look forward to a long and productive relationship with Sunair."

==> RADIO CLUB OF AMERICA HONORS CRONKITE, BODSON, BELROSE; CRONKITE RECEIVES ARRL PRESIDENT'S AWARD

At the 98th annual Radio Club of America (RCA) banquet on November 16 in New York City, Walter Cronkite, KB2GSD; ARRL Roanoke Division Director Dennis Bodson, PhD, PE, W4PWF, and Jack Belrose, PhD, VE2CV, were toasted and feted throughout the night. Bodson received the Sarnoff Citation, given to recognize significant contributions to the advancement of electronic communications. Barry Goldwater, K7UGA (SK), was the first recipient of the Sarnoff Citation in 1973. Both Cronkite and Belrose received the Armstrong Medal, the RCA's foremost achievement award and named for its first recipient, Major Edwin Armstrong. The keynote speech was given by Andy Rooney of television's "60 Minutes."

According to RCA Director-Elect Don Bishop, W0W0, Cronkite and Rooney both attended the latter part of cocktail reception that preceded the banquet. Cronkite sat in an elevated chair to greet RCA members and guests in a receiving line and Rooney sat at a small table where the occasional visitor might approach to offer greetings. "The focus was on Cronkite, who enjoyed shaking hands with his admirers and exchanging a few words with them," Bishop said.

Before the banquet and ceremony, ARRL Hudson Division Director Frank Fallon, N2FF, presented Cronkite with the ARRL

President's Award. This award, created in 2003 by the ARRL Board of Directors, recognizes an ARRL member or members who "have shown long-term dedication to the goals and objectives of ARRL and Amateur Radio" and who have gone the extra mile to support individual League programs and goals. Cronkite was selected to receive the award in April 2005 "in recognition of his outstanding support of the ARRL and Amateur Radio by narrating the videos 'Amateur Radio Today' and 'The ARRL Goes to Washington.'"

"It was quite a thrill to make this presentation to Cronkite," Fallon said. "He has long been recognized as the 'most trusted man in America.'"

Fallon said that this is only the third time the award has been given and second time a ham residing in the Hudson Division has been given the Award: "The first award went to Jerry Agliata, W2GLA, who received the award in 2004 at the Hudson Division Awards Dinner for his longtime involvement in legislative efforts in New York State on behalf of amateurs. The second time it was presented, it went to Mary Ann Crider, WA3HUP, in 2005 for her contributions to the cause of international goodwill through her long service as QSL Manager and Manager of the ARRL Third Call Area Incoming QSL Bureau."

After the dinner, RCA Fellow Ted Rappaport, PhD, N9NB, came to the podium to present the Sarnoff Citation to Bodson. Rappaport said, "It is my honor to present this year's Sarnoff Citation. It isn't given every year. It was initiated in 1973, and it is given to one individual who has made significant contributions to the advancement of electronics. This year's recipient is Dennis Bodson. Dennis has dedicated his career to standardizing the electronics industry. His efforts in standards, which were required to allow components made by all manufacturers to interact with one another, were recognized by the IEEE with the Charles Proteus Steinmetz Award. We're honored to have with us Dennis Bodson to receive this citation. I asked him, given his amazing contributions amongst the many he has made technically, what was the key to his success. He said a key to his success was his wife of 42 years, Rita, who is with him tonight."

Bodson received the citation and responded: "As I look back through my career to identify highlights as anyone might do with their own careers, it is never a singular thing one sees. There are many others who help you to achieve. To those, I also thank them. I also

have a special thanks to my family and to my wife Rita, because without their cooperation and support, I wouldn't have been able to accomplish much of anything. Thank you, Rita, and thank you to the Radio Club of America."

Richard Somers, W6NSV, presented Cronkite with the Armstrong Award. Somers said, "Each year, the Radio Club of America recognizes outstanding achievement in the field of wireless communications by honoring individuals who have made significant contributions to the industry and the public it serves. The highest and most prestigious award given by the Club is the Armstrong Medal, created in 1935 and named after Major Edwin Armstrong, wireless pioneer and inventor of FM radio. Since that time, this award has been presented infrequently and only to the most accomplished and deserving individuals -- those who have made important contributions to the radio art and science. As his significant contribution, our award recipient has used the medium of television to keep the American public informed of the news in a manner never before imagined. And tonight, we have the distinct privilege of having that individual with us, America's best known and most respected broadcast journalist, Walter Cronkite."

Following the introduction, Cronkite simply said: "Thank you for accepting me as one of you and for your accomplishments in the field of communications."

RCA Vice President Marty Cooper then stepped to the podium and presented a second Armstrong Medal to John S. "Jack" Belrose, PhD, VE2CV. "As Richard said, the Armstrong Medal was first awarded in 1935 and has been awarded 40 times since then. Not long after it was first awarded, our next awardee went to work at the Communications Research Centre in Canada, John Belrose. Jack worked at the Communications Research Centre for 55 years and still works there today but he rose to become the director of the Radiosciences Branch. He was educated in Canada and got his PhD in Cambridge. He has participated in numerous Canadian and international standards and technical groups. He has written more than 125 articles and papers on the subject of radioscience and antennas and propagation. For your lifetime of important communications, it is my pleasure to present you with the Armstrong Medal," Cooper said.

Belrose, a "QST" and "QEX" author, responded: "It was noted that candidates for the Armstrong Medal are restricted to Club members since, in 1937, everyone who was anyone in radio was a member of the Club. We can't say that nowadays, but it shows the prestige that our Club once had."

Upcoming Exams: Exams listed are within 100 miles of Woodford County

05-Jan-2008
 Sponsor: CINCINNATI REPEATER ASSOC INC
 Time: 8:30 AM (Walk-ins allowed)
 Contact: DALE W PRITCHETT (513)769-0789
 Email: KC8HJL@ARRL.NET
 VEC: ARRL/VEC
 Location: HARTWELL PRESBYTERIAN CHURCH
 210 PARKWAY AVE
 INTERSECTION PARKWAY/WOODBINE
 NEAR VINE/GALBRAITH & I-75
 CINCINNATI, OH 45216

25-Jan-2008
 Sponsor: LAKE CUMBERLAND ARA
 Time: 7:00 PM (Walk-ins allowed)
 Contact: NORMAN ARD (606)679-2442
 VEC: ARRL/VEC
 Location: SOMERSET COMMUNITY COLLEGE
 ROOM B2-204
 SOUTH CAMPUS
 NEAR SOMERSET AIRPORT
 SOMERSET, KY 42501

02-Feb-2008
 Sponsor: CINCINNATI REPEATER ASSOC INC
 Time: 8:30 AM (Walk-ins allowed)
 Contact: DALE W PRITCHETT (513)769-0789
 Email: KC8HJL@ARRL.NET
 VEC: ARRL/VEC
 Location: HARTWELL PRESBYTERIAN CHURCH
 210 PARKWAY AVE
 INTERSECTION PARKWAY/WOODBINE
 NEAR VINE/GALBRAITH & I-75
 CINCINNATI, OH 45216

14-Jan-2008
 Sponsor: NKARC
 Time: 6:00 PM (No walk-ins)
 Contact: LYLE H HAMILTON (513)315-4032
 Email: AB8SH@ARRL.NET
 VEC: ARRL/VEC
 Location: TURKEYFOOT MIDDLE SCHOOL
 3230 TURKEYFOOT RD
 REGISTRATION REQUIRED
 AT LEAST 3 DAYS AHEAD!
 COVINGTON (EDGEWOOD), KY 41017

26-Jan-2008
 Sponsor: ORANGE COUNTY ARC
 Time: 9:00 AM (Walk-ins allowed)
 Contact: LARRY B JONES (812)723-4033
 Email: WB9FHP@VERIZON.NET
 VEC: ARRL/VEC
 Location: PAOLI WESLEYAN CHURCH
 HIGHWAY 37 SOUTH
 ACROSS FROM PIZZA HUT
 TEST TO BE HELD IN CHURCH GYM
 PAOLI, IN 47454

02-Feb-2008
 Sponsor: RIPLEY COUNTY ARC
 Time: 9:30 AM (Walk-ins allowed)
 Contact: BRENT W TURNER (812)689-3161
 Email: KI9G73@GMAIL.COM
 VEC: ARRL/VEC
 Location: OSGOOD PUBLIC LIBRARY
 136 W RIPLEY ST
 OSGOOD, IN 47037

Local Club Meetings:

Jassamine Amateur Wireless Society (Nicholasville)
 Meetings are the second Monday each month at 7:00 p.m. Location is the Corman Building behind City Hall on Main Street. Talk-in, and information on the 145.490 (-600) and 444.975 repeaters.

Capital ARS: Regular meeting dates are the first Thursday of the month, at 7:30 pm, at the Frankfort Boone National Guard Center, Emergency Operation Center or Communications Center, off Highway 127, the Frankfort West Plaza Connector. A photo ID is required to enter thru the guarded entrance.
 Contact: PATRICK K COMPTON, KF4FMZ Phone: (502) 607-1617 (D) (502) 454-8282 (N) Web: http://www.ky4eoc.com E-mail: ky4eoc@ky4eoc.com

==> NASA PUSHES SHUTTLE LAUNCH TO JANUARY

NASA announced last week that the space shuttle Atlantis, set to launch into space on December 6 to the International Space Station (ISS), would be delayed until no earlier than Wednesday, January 2 after a failure occurred in a fuel sensor system while Atlantis' external fuel tank was being filled. The shuttle will transport Columbus, the space laboratory built by the European Space Agency (ESA). Columbus has two Amateur Radio on the International Space Station (ARIS) antennas attached to its nadir side, and will also provide scientists around the world the ability to conduct a variety of life, physical and materials science experiments.

One of the four engine cutoff, or ECO, sensors inside the liquid hydrogen section of the tank gave a false reading. NASA's current Launch Commit Criteria require that all four sensors function properly. The sensor system is one of several that protect the shuttle's main engines by triggering their shut down if fuel runs unexpectedly low. Atlantis' scheduled launch on December 6 was delayed after two liquid hydrogen ECO sensors gave false readings. A third sensor failed after the tank was drained of fuel.

Upcoming Hamfests:

1 Mar 2008
 Mammoth Cave ARC
 http://www.geocities.com/ky4x2000
 Talk-In: 146.34/94
 Contact: Larry Brumett, KN4IV
 108 Withers Drive
 Glasgow, KY 42141
 Phone: 270-651-2363
 Email: lbrumett@glasgow-ky.com
 Cave City, KY
 Cave City Convention Center
 502 Mammoth Cave Street
 Div: Great Lakes
 Sect: Kentucky

The mission, STS-122, will bring seven astronauts to the ISS: Commander Stephen N. Frick, KD5DZC; Pilot Alan G. Poindexter; Mission Specialist Rex J. Walheim; Mission Specialist Stanley G. Love; Mission Specialist Leland D. Melvin; Mission Specialist Hans Schlegel, DG1KIH, of Germany, and Mission Specialist/Expedition 16 Flight Engineer Leopold Eyharts, KE5FN0, of France. Flight Engineer Dan Tani, KD5DXE, already on board the ISS, will depart when Atlantis returns to Earth; Eyharts will stay behind on the ISS and take his place.

Living on Earth is expensive, but it does include a free trip around the sun every year.

9-Feb-2008
 Sponsor: BLUEGRASS AR SOCIETY
 Time: 10:00AM (Walk-ins allowed)
 Contact: FERNIE D WILLIAMS (859)245-2140
 Email: KE4MAI@ARRL.NET
 VEC: ARRL/VEC
 Location: RED CROSS BUILDING-CLASSROOM B
 1450 NEWTOWN PIKE
 AT GRIFFIN GATE BLVD
 HTTP://WWW.BLUEGRASSARS.ORG
 LEXINGTON, KY 40511

11-Feb-2008
 Sponsor: NKARC
 Time: 6:00 PM (No walk-ins)
 Contact: LYLE H HAMILTON (513)315-4032
 Email: AB8SH@ARRL.NET
 VEC: ARRL/VEC
 Location: TURKEYFOOT MIDDLE SCHOOL
 3230 TURKEYFOOT RD
 REGISTRATION REQUIRED
 AT LEAST 3 DAYS AHEAD!
 COVINGTON (EDGEWOOD), KY 41017

Swap Shop:

There is a limited quantity of WCARC baseball caps available to Club members for \$8.00 each.

Central Kentucky ARS (Richmond-Berea), Third Thursday each month in the Madison County EOC, Richmond, Kentucky, at 7:00 p.m.. Talk-in on 146.865 (-600, pl-192.8Hz) and 145.370 (-600, pl-192.8Hz) repeater for location directions to meeting site, or other information.

Anderson County meets every 2nd Monday of the month. 7:00 p.m. at the Anderson County EMS Building, 1191 Bypass South, next to the Ford dealership.

Bluegrass Amateur Radio Society The regular meeting of the Bluegrass Amateur Radio Society, Inc., will be held every first Monday, 7:30 p.m. at the Red Cross Building, 1450 Newtown Pike, Lexington.

The University of Kentucky ARC, contact Jeff Withers, KG4QFY, jeffchem@yahoo.com. Club web page: http://www.uky.edu/StudentOrgs/UKARC/. Meetings are once each month (times/days will be announced as class schedules allow), in room 553 in Anderson Hall on campus.

Scott County Amateur Radio and Emergency Service Club (SCARES), Meetings are the third Saturday each month, 9:00 a.m. in the EOC (lower level o Fire Station), 2200 Cincinnati Pike (intersection of U.S. 25 N and Delaplain Road). Check in to their weekly simplex net Tuesdays at 9:00 p.m. on 147.490.

Pioneer ARC (Winchester), Fourth Tuesday each month Golden Corral Restaurant at 7:30 p.m. Talk-in, and info on the 147.120 repeater.