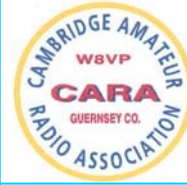


CARA COMMUNICATOR



Located at the Crossroads of Communications in East Central Ohio
Vol. 8 Issue 5, W8VP, 146.25/85, Est. 1913, June/July/August 2008

FIELD DAY 2008



Field Day this year is **June 28-29**. The location of CARA's Field Day will once again be held at The Grove Park in Bloomfield. Everyone can help make it a success by volunteering to help in the preparations, set up, operations, and tear down. See Activities Chair Dick Wayt, WD8SDH, to join the Field Day committee and to schedule operating times. Please mark your calendars and join in.

ZANE'S TRACE SPECIAL EVENT

CARA is coordinating a multi-county special event to commemorate the 210th anniversary of the completion of Zane's Trace, the first road opening Ohio to settlement on **July 19-20**. The event will be similar to the Route 66 special event. The Zane's Trace special event will have stations on the air in Wheeling, WV; Cambridge, Zanesville, and Lancaster, OH. CARA's Special Event Station will be at Peter's Creek S-Bridge, west of Cambridge on US 40.

CARA TO HOST HAMFEST

CARA will host a Hamfest and Computer Show on **Sunday, August 24, 2008** at the Pritchard-Laughlin Civic Center in Cambridge. This will be CARA's first hamfest since 1937. Set up starts at 7 AM and the doors open to the public from 8 AM until 2 PM. Admission will be \$5. Tables will be \$10. Free Outdoor Tailgating will be available (weather permitting).

There will be an ARRL VE Session at 12 noon for all classes, pre-registration is not required. Grand Prize will be 2-Meter mobile rig. Food will be available on the premises. Door prizes and 50/50 will also be available.

Take exit 176 off I-70 and at the traffic light turn right. The Civic Center is located on the left. Talk in will be on 146.850 with 91.5 Hz tone repeater.

MEMBERS' BIRTHDAYS

Ray Dillon, AA8BX—June 5; Bob Gray, KE8NI—June 21; Mary Rhodes-Ellis, KD8EIR—June 21; Fred Barton, KB8MGI—July 13; Dave Thompson, KC8OQW—July 20; Russ Ellis, N8MWK—July 21; Evelyn Barton, KA8NZS—August 9; Bruce Homer, N8JMK—August 16; Walt Brown, N3DZP—August 17; Dick Huston, K8ZWF—August 26.

MEMBERS' ANNIVERSARIES

Russ, N8MWK, and Mary, KD8EIR, Rhodes-Ellis—June 10; Bill, WB8TRK, and Helen Dickson—July 27; Fred, KB8MGI, and Evelyn, KA8NZS, Barton—July 27; Dave, KC8OQW, and Tara Thompson—August 6; and Dick, K8ZWF, and Kate Huston—August 12.

UPCOMING MEETINGS

CARA BUSINESS MEETINGS

Meetings are held at Community Healthlink Building on corner of Edgeworth Avenue and (1205) Clark Street in Cambridge. We are currently meeting on Monday evenings at 7 PM. Here are the dates of this quarter's meetings: **June 2, June 30, July 28, and August 25.**

CARA OFFICERS' MEETINGS

The officers' meetings are held at 7 PM in the Crossroads Library Branch. They are scheduled for **Monday, June 23, July 21, and August 18.**

MCC MEETING

CARA will host the Multi-County Coalition of Eastern Ohio on **Sunday, July 27** at 2 PM in small pavilion # in the Cambridge City Park. CARA will provide the hamburgers, hot dogs, buns, and condiments. Attendees are requested to bring a covered dish to share. We know gasoline is expensive, so carpool. Please try to attend.

GOBA

The Great Ohio Bicycle Adventure is looking for volunteers to provide communications through Coshocton, Holmes, and Tuscarawas Counties on **June 18, 19, & 20**. If you can help, let Sonny Alfman, W8FHF, know as soon as possible.

2008 ELECTED OFFICERS

President: Sonny Alfman, W8FHF

Vice President: Bruce Homer, N8JMK

Secretary/Historian: Evelyn Barton, KA8NZS

Treasurer: Betty Shoemaker, KC8MFL

Newsletter Editor: Lyn Alfman, N8IMW

PIO: Lyn Alfman, N8IMW

Activities Chair: Dick Wayt, WD8SDH

Program Chair: Mark Jenei, KC8SBB

Trustees: Sonny Alfman, W8FHF; Alan Day, K8AL; and Bob Gray, KE8NI

MCC Representative: Lyn Alfman, N8IMW; & Dean Gilpin, KD8BTL

2008 APPOINTED POSITIONS

Webmaster: Jim Houser, WA8JIM

District 9 DEC: Sonny Alfman, W8FHF

Guernsey CO. EC Mark Jenei, KC8SBB

Guernsey CO AECs: Bruce Homer, N8JMK; and Dick Wayt, WD8SHD

LOCAL WEBSITES

CAMBRIDGE ARA
www.w8vp.org

ZANESVILLE ARC
<http://zarc.eqth.info>

NEWARK ARA
<http://nara.eqth.info>

COSHOCTON ARA
www.w8cca.org

TUSCO ARC
www.tuscoarc.org

MUSKINGUM VALLEY HAM RC
www.n8hr.bravehost.com

Cambridge Amateur Radio Association,
P. O. Box 1804,
Cambridge, OH 43725
www.w8vp.org

w8vp@hotmail.com

SSB TRAFFIC NET FREQUENCIES

OH 3.9725 MHz – 1030, 1615, 1845 Local Time

WPA 3.983 MHz – 1815 Local Time

WV 3.865 MHz – 1815 Local Time

LOCAL NETS

Sunday 9 PM 147.045 MHz CCARA

Monday 8 PM 146.730 MHz TUSCO
9 PM 145.230 MHz CCARA.

Tuesday 8 PM 146.850 MHz CARA
8:15 PM 146.850 MHz CARA
9 PM 146.880 MHz NARA

Wednesday 9 PM 146.610 MHz ZARC

Thursday 9 PM 51.135 MHz ZARC
9 PM 145.230 MHz CCARA

Friday 9 PM 28.450 MHz CCARA

Saturday 8 PM 146.820 MHz PARC
9 PM 146.610 MHz MCC

HAMFESTS

June 7—Fulton Co. ARC, Tedrow, OH. Talk-In: 147.195+; <http://www.k8bxq.org>.

June 21—Milford ARC, Milford, OH. Eastside Christian Church. Talk-In: 147.345+ (no tone); <http://www.w8mrc.com>.

July 12—NOARSFEST (Northern Ohio ARS), Wellington, OH. Lorain Co. Fairgrounds. Talk-In: 146.79- (open repeater); <http://www.noars.net>.

July 20—Van Wert ARC, Van Wert, OH. Van Wert Co. Fairgrounds. Talk-In: 146.250/146.850; <http://www.w8fy.org>.

July 27—Portage Hamfair '08 Portage ARC, Randolph, OH. Portage Co. Fairgrounds. Talk-In: 144.790/145.390 (no PL); <http://www.portagearc.org>.

August 2—Voice of Aladdin, Columbus, OH. Aladdin Shrine Center. Talk-In: 147.24+; <http://aladdinshrine.org/hamfest.htm>.

August 9—Northwest Ohio ARC, Lima, OH. Fair Radio Sales Grounds. Talk-In: 146.670 (no PL); <http://www.nwoarc.info/hamfest.shtml>.

August 24—1st Annual Cambridge Amateur Radio Assn.'s Hamfest & Computer Show, Cambridge, OH, www.w8vp.org.



UPCOMING SPECIAL EVENTS

Jun 1-Jul 30, 0100-2359Z, Ottawa, ON. Ottawa Valley Mobile Radio Club, VC3C. Champlain Trail, 400th anniversary of founding of Canada. 14.240 14.040 7.240 7.040. QSL. M.A. Vigneault, VE3VIG, PH2-400 Montfort St, Ottawa, ON K1L 8G6, CANADA. vig@mondenet.com, www.qrz.com/vc3c or www.ovmrc.on.ca

June 7-8, 0100-2359Z, Various Locations, International. The Battleship New Jersey Amateur Radio Station, NJ2BB. International Museum Ship Radio Event - 2008 Certificate. 7.260 7.039 3.860 3.539. Certificate. Margaret Burgess, KB2BRR, 150 Schooner Ave, Barnegat, NJ 08005. List, frequencies and more information at web page. Work 15 different ships for special certificate. www.nj2bb.org

June 14, 1500-2100Z, Wooster, OH. Wayne Amateur Radio Club, W8WOO. Wooster Ohio's Bicentennial. 21.245 14.245 7.245. QSL. Wayne Amateur Radio Club, PO Box 881, Wooster, OH 44691. w8woo.com

June 14-15, & June 21-22, 0000-2359Z, Hellas, Greece. The SX2MT Team/Museum of Vergina – Royal Tombs, SX2MT. International Museums Weekend 2008 - Museums On-the-Air. all modes all bands EchoLink 121496. QSL. Archelaos Iakovidis, PO Box 26, PC 59100 Veria - Makedonia, Hellas, GREECE. QSL direct only; do not use QSL Bureau. International Museums Weekend info: www.ukradioamateur.co.uk/imw or www.qrz.com/sx2mt

July 1-31, 0000-2359Z, Quantico, VA. FBI Amateur Radio Association, K3FBI. 100th Anniversary of Federal Bureau of Investigation. 14.280 7.280 All bands phone & PSK. Certificate. FBIARA, ERF Building 27958A, Quantico, VA 22135. No SASE required for certificate, just send QSL. www.fbi.gov/fbihistory.htm

July 12-20, 0100-2359Z, Cedar Rapids, IA. Rockwell Collins Amateur Radio Clubs, W0CXX. 50th Anniversary of Collins S-Line. 14.285 14.050 7.285 7.050. QSL. Collins Amateur Radio Club, South Campus, HQ Station, 10211 Hall Rd, Cedar Rapids, IA 52411. Collect 4 or more QSLs from 4 different facilities and mail to W0CXX for special certificate (QSLs will be returned). w5rok.us or w0cxx.us

July 19, 1300Z-1600Z, Wapakoneta, OH. Reservoir Amateur Radio Association, K8QYL. Celebrating the 39th anniversary of Moon Landing. 14.235 7.185. QSL. Rick Wagaman, WB8ZRQ, 240 Lincoln Dr, Celina, OH 45822. rwag1@verizon.net

Jul 19-20, 1300-2200Z, Cambridge, OH. Cambridge Amateur Radio Association, W8C. Zane's Trace, 200th anniversary of first road in the NW Territory. 14.260 7.235. QSL. George A. Alfman, 1975 N Moose Eye Rd, Norwich, OH 43767. *Various stations along the original Zane's Trace road.* www.w8vp.org.

Aug 2-3, 0000-2359Z, Pittsburgh, PA. Pittsburgh area Amateur Radio Clubs, various. 250th anniversary of the City of Pittsburgh. 28.350 21.350 14.250 7.250 3.850 and elsewhere. Certificate. Edward K. Oelschlager, N3ZNI, 60 Carl Ave B2, Eighty Four, PA 15330. Please include \$2 for certificate. www.pittsburgh250ham.org

Aug 16, 1400-2000Z, Huntington, NY. Peconic Amateur Radio Club, W2AMC. International Lighthouse/Lightship Weekend. 14.270 7.270. Certificate. Peconic ARC, PO Box 113, Peconic, NY 11958. www.peconic-arc.com

Aug 16-17, 1400-1900Z, North Canton, OH. Airwaves Radio Club, N8AIR. Presenting the "Wings of Freedom Tour". 14.260 14.270 7.260. Certificate. MAPS Air Museum, 2260 International Pkwy, North Canton, OH 44720. www.mapsairmuseum.org

TRIVIA QUESTION # 1

Where was the first Russian amateur radio station operated from? (1) Sankt Peterburg; (2) Nizhniy Novgorod; (3) Ekaterinburg; or (4) Moscow.

TRIVIA QUESTION #2

What was the call of the pentagon in the late 40's and early 50's before "K" calls were issued to amateurs? (1) W4AMR; (2) W4PNT; (3) K4USA; or (4) K3GOV?

RADIOS ON-LINE, OFFLINE

Effective April 30, the ARRL Radios On-Line person-to-person want-ad site will go the way of the telegram. Declining use as well as abuse by a few hams caused the demise of this ARRL program intended to assist hams sell equipment.

CARA FIELD TRIP



L. to R: Fred and Evelyn Barton, Gil Gilcher, Sonny and Lyn Alfman, Jon Barkhurst, Dick Clifton, Alexis Alfman, Bruce Homer, Bev Bishop, and John Taylor.

CARA members and families took a field trip to the Inventors Hall of Fame in Akron on April 19. They learned about inventions and inventors, and had time to have some hands-on experiences, too!



Bruce Homer explores water and buoyancy.

CENTRAL OHIO DX BANQUET



L: Pat Dal Porto, W8FV. R: Mike Mraz, N6MZ. Sonny, W8FHF, and Lyn, N8IMW, Alfman attended the Central Ohio DX Banquet in German Village on April 3.

Pat Dal Porto, W8FV, was the featured speaker. He showed slides and discussed the logistics of operating in Tanzania as 5H9PD. A special guest appearance was made by Mike Mraz, N6MZ, who operated on many expeditions, including BS7H.

ARES ELECTRIC CO-OP DEMO



L. to R: Dean Gilpin, KD8BTL; Jen Brown, KD8HWL; Evelyn Barton, KA8NZS; Fred Barton, KB8MGI; and Bruce Homer, N8JMK. Not shown: Lyn Alfman, N8IMW, and Sonny Alfman, W8FHF.

CARA's ARES group once again set up an ARES display at the Guernsey-Muskingum Electric's annual meeting on Saturday, April 5, at the Larry Miller Intermediate School in New Concord.

OHIO ARES CONFERENCE



Left to Right: Lyn Alfman, N8IMW; District 9 DEC Sonny Alfman, W8FHF; Guernsey Co. EC Mark Jenei, KC8SBB, and Guernsey Co. AEC Bruce Homer, N8JMK, attended the Ohio ARES Conference.

The Conference, held on March 29 at the State Fire Academy in Reynoldsburg, was open to all amateurs, not just ARES members. Several speakers, including Section Manager Joe Phillips, Section Emergency Coordinator Frank Piper, as well as several Assistant Section Managers and District Emergency Coordinators, addressed the crowd from the podium. Attendees were also treated to a technical presentation and a pizza lunch.

OHIO QSO PARTY 2007

August 24, 2007, was one of the hottest and most humid days of the summer. The Ohio QSO Party is a contest to put Ohio's counties on the air and to contact as many different counties as possible. Along with my XYL Mary, KD8EIR, I set out for Wolf Creek Wildlife area between Glouster and Malta in the middle of Morgan County, which is one of Ohio's rarest radio counties.

We arrived at Pond # 2 at 10:30 am; already it was 85 degrees and quite humid. We started putting up a make shift shelter and hooked the gel cell up to my pickup truck for charging; then we hooked the ICOM 756 and the G5RV antenna up. All went great until time to test out the system, and we found the antenna wouldn't load up on 80-meters at all even with the built in tuner in the 756. After inspecting the antenna, I decided to tear it apart and made just a common 80-meter dipole out of the parts and put it up between two trees, and it loaded up great and got several good test reports.



By this time it was time for the contest to start and Mary and I were sunburned from all the work with the antenna and putting the shelter up. We took a few minutes to cool off and got a cold drink, and Mary went fishing while I started the contest. Everything was going great until about 5:45 pm when a large thunderstorm cell approached from the south-west very rapidly

Mary and I had just enough time to disconnect and throw all the stuff into the truck. It seemed one cell after another came through from 6 to 9 pm, so we just napped and chatted on the 2-meter radio. We almost started for home, but around 9 pm, the weather cleared up, so I hooked the rig back up to the gel cell and found we could only run about 10 watts due to the battery being low.

But it did a great job even for the low power levels. **We placed 3rd in the QRP division**, and we made 65 contacts, not bad for all the problems and the terrible weather. Mary claims she will never do it again. But it was a very fun time with a few scary moments with the weather.

It is a testament of the effectiveness of HF radio; even with the static we had, it was possible to operate with just 10 watts and make many good contacts. It's a nice, short one-day contest, so if you up for a bit of adventure, give it a try sometime. --*Best of DX and 73 Russ N8MWK and Mary KD8EIR Ellis*

EMERSON SPEAKER FOR APRIL



CARA's guest speaker for the April program was Carol Emerson, who presented a program on Citizens' Corps. Emerson discussed how Citizens' Corps fits into Homeland Security and its various branches, such as CERT. She explained how we can become involved with Citizens' Corps and CERT.

ANSWER TRIVIA QUESTION # 1

Answer 2 is Correct!

The R1FL station was operated by Fedor Lbov in Nizhniy Novgorod since January, 1925.

ANSWER TRIVIA QUESTION # 2

Answer 3 is Correct!

K4USA

RILEY MAY RETIRE (AGAIN)



Riley Hollingsworth, K4ZDZ, and Bill Cross, W3TN, taken at the Dayton Hamvention.

FCC Special Counsel for Amateur Radio Riley Hollingsworth, K4ZDH, hopes to retire in early July. He had announced plans to retire earlier this year, but decided not to due to the emergence of the Air Force PAVE PAWS radar interference issue regarding 70-centimeter amateur repeaters in New England and California. He decided that he didn't want dump the problem on someone new. Riley says the PAVE PAWS issue appears headed for resolution, and as long as no new problems crop up, he will feel comfortable in retiring in July. He did note that he plans to stay active as possible in amateur radio, adding, "in a fun time this time."

--CQ Newslines, May 28, 2008

NEW OPS: A CURSE OR AN OPPORTUNITY

The answer to the above question depends on each one of us. New ops are curses for people who prefer to "curse the darkness," but they are opportunities for people who would much rather "light one single candle" to clear the darkness. The darkness in these instances being the darkness of inexperience and ignorance. Note that I said ignorance; not stupidity. I am referring to a case of not having had the opportunity to learn rather than of being unable to learn.

I believe that all amateurs are inherently intelligent. Education to become knowledgeable is what we all need in one or more respects.

I fairly frequently receive e-mail complaining about how some new hams continue to operate using non-ham practices. This is particularly true when a group of several friends come into Amateur Radio from Citizens' Band at the same time. This is natural. They know each other well

and may have operated on CB together using CB procedures for a long time. Long-established practices are often difficult to change.

Long-standing practices are particularly difficult to change when no one has shown that alternate practices are more appropriate. But, who is it that should introduce aspiring and new licensees to the ways of Amateur Radio?

The most logical people to show or teach "newbies" the "way of light and wisdom" are local hams. These are the hams who meet new licensees in person at license classes, club meetings and events, or at breakfast or lunch.

How do neophytes learn proper procedure? They could read on their own or could listen to established hams operate. The latter is a good way to learn, provided the hams they listen to use good procedure.

Another excellent way to help "newbies" learn and to get them involved in a local club at the same time, is to present a short-course on proper operating. This course could be targeted strictly to new folks by adding it on as a single discussion or in few-minute bites during a license course. It could also be given at club meetings.

The training might include the proper use of pro-words and pro-signs, how to begin and end a QSO. It could stress courteous operating and prepare new hams to deal with the truly few LIDs who are discourteous and piggish, as well as other commonly-encountered features of day-to-day operation.

You might choose to open the training up to old timers. If you do, prepare to be surprised at the number of old timers who learn that practices they thought were correct, aren't. This is sort of like the King of Siam in "The King and I." Remember, he was the supreme honcho who suddenly realized that what he had thought was true for decades actually isn't.

As just one example of a highly common error, consider the all-familiar ending for Amateur Radio QSOs. Which is proper . . . 73s or 73?

Regardless of the fact that nearly many new and old ops alike say 73s, this is incorrect. The correct term is 73. Don't misunderstand, saying 73s won't result in FCC enforcement action. It won't even result in a friendly reminder from an OO. Even so, if one really wishes to operate

correctly, it is 73, not 73s.

The code term, 73, is already plural. It was initially set up by telegraphers to say "best wishes," "good luck" or similar thoughts to fellow telegraphers. Adding an "s" to 73 to turn it into 73s turns it into "best wisheses" or "bestes wisheses" or some other distortion of the language. At best it becomes a plural plurality, whatever this may be.

Not too long ago, I listened to a QSO on a local repeater in which two newcomers were debating the meaning of a few Q signals. Among other things, they were trying to figure out whether QRA means "I am at" or "there is a lot of interference," and whether QTH means "my call is ___," or "your signal is very weak."

New ops need help -- need an Elmer. It is best if the help comes from people who choose to take the effort to teach correct information.

--From March Issue of *WEAVER'S WORDS* (ARRL Great Lakes Director, Jim Weaver, K8JE)

NO ELECTRONIC MAGAZINES? THINK AGAIN.

Many old-time ham radio operators grew up with magazines such as Popular Electronics, Electronics Illustrated, and Radio-Electronics. Sadly, these magazines are gone now, but there are still electronics magazines out there that can help you keep up with what's going on in electronics. These magazines are written for practicing electronics engineers, so many of the articles will not be relevant to amateur radio or written in such a way to be nearly incomprehensible to electronics hobbyists, but you can't beat the price. They're free!

The magazines I'm referring to are electronics engineering trade magazines. These magazines are sent out free to electronics engineers and others working in the industry, and are supported by the advertisers. You're not an electronics engineer? Don't worry. If you e-mail me, I'll tell you how you can qualify.

Let me give you an example of the good stuff you can find in these trade magazines. In the December 2007 issue of High Frequency Electronics (www.highfrequencyelectronics.com), there is an article titled, "Quartz Crystal Basics." Written by an engineer for a manufacturer of crystals, crystal oscillators, and crystal filters, this article describes how crystals are made and gives some tips on designing your own crystal

oscillators.

Also in this issue is the article, "Power Combiners, Impedance Transformers, and Directional Couplers." This is the first of a series of articles to discuss these circuits. Amateurs frequently use transmission line impedance transformers (think baluns) to match an antenna system to the 50-ohm output of a transceiver.

The new products section includes items on RF parts and test equipment, as well as book reviews. You probably will not be purchasing the new Boonton 9103 7.5 GHz Portable Spectrum Analyzer (\$11,000 and up), but you might be interested in the book *RF Circuit Design* (\$41 at Amazon).

As you can see, there's plenty of useful and interesting information in these trade magazines. In addition to High Frequency Electronics, you may also want to check out: RF Design (www.rfdesign.com); Microwaves and RF (www.mwrf.com); EE Times (www.eetimes.com); EDN (www.edn.com); Test & Measurement World (www.tmworld.com, I used to write for this magazine).

If you don't care to sign up for the print version of the magazine, you can always visit their websites and sign up for their e-mail newsletters. These newsletters will keep you informed of new articles and product information on the websites. You can then choose which ones you want to read. --73, Dan KB6NU

NOTE: When he's not trying to get free subscriptions to electronics magazines, Dan blogs about ham radio (www.kb6nu.com), teaches others about ham radio, and is working to set up an amateur radio station at the Hands-On Museum (www.aahom.org) in Ann Arbor, MI. You can e-mail him at cwgeek@kb6nu.com.

KOSOVA & CQWW DX CONTESTS

The Worked All Europe (WAE) award committee of the Deutsche Amateur Radio Club (DARC) has voted to add Kosova (Kosovo) to the WAE country list. The CQ World Wide DX Contests and the CQ DX Marathon both use a combination of the DXCC and WAE lists as the basis for their country lists. Kosova will now be considered a separate entity for both the CQ DX Marathon (effective February 17, 2008) and for the CQ WW DX Contests, beginning with the CQWW RTTY DX Contest on September 27-28, 2008.

--From the March 26, 2008 CQ Newline.

PLASMA TV INTERFERES WITH AMATEUR

The FCC says a homeowner's plasma television is causing interference to a ham in Edgewater, Florida. FCC Special Council Riley Hollingsworth, K4ZDH, says the case involves "an elderly couple who saved up their money and bought a \$3000 plasma TV, and it's causing interference. I don't know what they're going to do about it, but they're going to have to do something." Hollingsworth noted that plasma TVs are becoming notorious as interference generators and that so far, no one has come up with a remedy.

--*CQ Online News, April 23, 2008*

ARRL & RED CROSS AGREEMENT

A new background consent form will be used by all American Red Cross chapters for ARRL members and other partner organizations. The form and related process is limited to the name, social security number verification of the individual, and a criminal background check. References and suggestions to other related investigative possibilities have been stricken.

With the background check issue apparently resolved, the ARRL will be working with the ARC in the negotiation and creation of a draft for a new *Memorandum of Understanding (MOU)* or similar document to replace the one which expired last year.... When complete, the draft of the *MOU* will be presented to the leadership of both organizations for approval.

--*The ARRL Letter, Vol. 27, No. 19, May 16, 2008*

TEN NEW SATELLITES IN ORBIT

Ten satellites reached orbit April 28 aboard an Indian PSLV-C9 rocket launched from the Satish Dhawan Space Center. The primary payloads were India's CARTOSAT-2A and IMS-1 satellites. In addition to the NLS-5 and RUBIN-8 satellites, the rocket carried six CubeSat research satellites, all of which communicate using Amateur Radio frequencies. All spacecraft deployed normally and appear to be functional at this time.

The SEEDS satellite, designed and built by students at Japan's Nihon University, when fully operational, will download telemetry in Morse code and 1200-baud FM AFSK packet radio at 437.485 MHz. The satellite also has Slow-Scan TV (SSTV) capability. Several stations have reported receiving SEEDS CW telemetry and the team would appreciate receiving more reports

from amateurs at their ground station Web page.

AAUSAT-II, created by students at Aalborg University in Denmark, will downlink scientific telemetry at 437.425 MHz using 1200 or 9600-baud packet.

Can-X2, a product of students at the University of Toronto Institute for Aerospace Studies, Space Flight Laboratory (UTIAS/SFL), will downlink telemetry at 437.478 MHz using 4 kbps GFSK, but the downlink will be active only when the satellite is within range of the Toronto ground station.

Compass-One, designed and built by students at Aachen University of Applied Sciences in Germany, features a Morse code telemetry beacon at 437.275 MHz. Compass-1 will also provide a packet radio data downlink, which will include image data, at 437.405 MHz.

Cute 1.7 + APDII, created by students at the Tokyo Institute of Technology, will not only provide telemetry, it will also offer a 9600-baud packet store-and-forward message relay with an uplink at 1267.6 MHz and a downlink at 437.475 MHz.

Delfi-C3, designed and built by students at Delft University of Technology in the Netherlands, includes an SSB/CW linear transponder. The satellite will be in telemetry-only mode for the first three months of the mission, after which it will be switched to transponder mode. Delfi-C3 downlinks 1200-baud packet telemetry at 145.870 MHz. The linear transponder, when activated, will have an uplink passband from 435.530 to 435.570 MHz and a corresponding downlink passband from 145.880 to 145.920 MHz. The Delfi C-3 has been issued an OSCAR number: Delfi-C3 OSCAR-64 or Dutch OSCAR-64. The shortened version of either of these two designations is DO-64.

--*Space Bulletins ARLS004, April 28, 2008 & ARLS005, May 22, 200, ARRL Headquarters*

TECHNICIAN CRAM COURSE

Sonny Alfman, W8FHF, co-taught another Technician Cram Course on Saturday, March 15, in New Philadelphia. Twelve out of the fourteen students passed the exam. Alfman plans to offer another class this fall. Anyone interested in the class is asked to contact him at (740) 872-3888.



NEW RUSSIAN SATELLITE

A Russian rocket launched from Plesetsk on May 23 carried a new Amateur Radio satellite named Yubileiny -- Russian for jubilee -- since christened Radio Sputnik 30 (RS-30).

Operational details are vague at this time. Amateurs throughout the world report receiving signals at 435.315 and 435.215 MHz; some report reception of CW telemetry while others report what appear to be image transmissions from the satellite. RS-30 is orbiting at a maximum altitude of 1500 km, creating a substantial communications footprint below.

The satellite will broadcast audio and video about the history of the Soviet and Russian space programs, as well as signals imitating those broadcast by Sputnik in 1957.

According to the satellite's launch team, "The motive for development of the Yubileiny small spacecraft was the 50th anniversary of the first space satellite. With the help of that satellite, the new space systems and equipment are expected to get flight qualification, and radio amateurs all over the world will be able to receive information on the history of space development and domestic cosmonautics achievements."
--*Space Bulletin ARLS006, May 29, 2008, ARRL Headquarters*

NASA TOOL ALLOWS HAMS TO EXPLORE IONOSPHERE FROM INSIDE

Last week at the Space Weather Workshop in Boulder, Colorado, NASA released a 4D live model of the Earth's ionosphere. Without leaving home, anyone can fly through the layer of ionized gas that encircles Earth at the edge of space itself. All that is required is an Internet connection and a free copy of *Google Earth*. NASA calls the ionosphere the "last wisp of Earth's atmosphere that astronauts leave behind when they enter space. The realm of the ionosphere stretches from 50 to 500 miles above Earth's surface where the atmosphere thins to near-vacuum and exposes itself to the fury of the sun. Solar ultraviolet radiation breaks apart molecules and atoms creating a globe-straddling haze of electrons and ions."

--*From Weaver's Words, May 7, 2008*



SILENT KEYS

JAMES F. FOOTE, K8KSN, SK

Jim Foote, K8KSN, age 67, of Gnadenuhnten, died May 9, 2008, following a sudden illness.

Jim was the President of the TUSCO Amateur Radio Club, a member of the Emergency Management Association, and for many years was on the Gnadenuhnten and Tuscarawas Fire Departments. He served eight years as a Warwick Township Trustee. He was the third person to be issued a license to handle fireworks in the state of Ohio and was a shooter for the Pyrotechnico Company. He took great pride in his coordinating and choreography of the 4th of July fireworks "Fantasy in the Sky" at Gnadenuhnten and for many years helped with the Gnadenuhnten 4th of July Festival and the Gnadenuhnten Pioneer Days.

Jim enjoyed his ham radio, his radio club activities, shooting the fireworks, hunting, fishing, camping, and his computers. He built muzzleloaders and in earlier years competed in shoots in Ohio and Indiana. Jim was a "Jack of all trades" and could fix just about everything. His greatest love was his family, grand and great grandchildren. If Jim could help someone it was not in his nature to turn them down.

He is survived by his wife, Mary Ann, two sons and two daughters. The family requests that any contributions in Jim's name be made to the TUSCO Amateur Radio Club, Box 725 New Philadelphia, O., 44663 or the Gnadenuhnten Fireworks Festival, Box 411 Gnadenuhnten, O., 44629.

RONALD A. PARISE, WA4SIR (SK)

Dr Ronald A. Parise, PhD, WA4SIR, passed away May 9, 2008 at the age of 57. (He was licensed when he was 11.) He flew as a payload specialist on two space shuttle missions: STS-35 on Columbia in December 1990 and STS-67 on the Endeavour in March 1995. These two missions, ASTRO-1 and ASTRO-2, respectively, carried out ultraviolet and x-ray astronomical observations in space. He was one of the first astronomers to operate a telescope from space, making hundreds of observations during the mission.

ARISS Chairman Frank H. Bauer, KA3HDO, said Parise's contributions to these two missions provided scientists with "an unprecedented view

of our universe, expanding our understanding of the birth, life and death of stars and galaxies." During his two shuttle flights, he spoke with hundreds of hams on the ground. He was instrumental in guiding the development of a simple ham radio system that could be used in multiple configurations on the space shuttle; as a result, his first flight on Columbia ushered in what Bauer called the "frequent flyer era" of the Shuttle Amateur Radio Experiment (SAREX) payload.

He was the first ham in space to operate packet radio. He flight pioneered the telebridge ground station concept to enable more schools to talk to shuttle crew members despite time and orbit constraints, and he was a key volunteer in the development of the ham radio hardware systems that are now on-board ISS. He worked hand-in-hand with students at Embry-Riddle Aeronautical University on the development of their student satellites. He helped develop Radio Jove, a student educational project to listen to the radio signals emanating from Jupiter
<<http://radiojove.gsfc.nasa.gov>>.

In an effort to continue his work to inspire the next generation, his family has set up a scholarship fund in Parise's honor for students pursuing technical degrees at Youngstown State University (his alma mater). Those interested are welcome to send donations to the Dr Ronald A. Parise Scholarship Fund, Youngstown State University, One University Plaza, Youngstown, OH 44555. – Information provided by Goddard Amateur Radio Club, WA3NAN
--*The ARRL Letter*, Vol. 27, No. 19, May 16, 2008

ARRL'S FIFTH PILLAR

At the Dayton Hamvention, ARRL President Joel Harrison, W5ZN, announced that the ARRL will expand its identity program to include greater emphasis on technology. He explained that "Ham radio operators, and particularly ARRL members, closely identify with current and emerging radio technology. Today, we are naming 'technology' as ARRL's new fifth pillar." ARRL's other four pillars, the underpinnings of the organization, are Public Service, Advocacy, Education, and Membership. "For hams, expanding the four pillars to include technology will reinforce one of the organization's guiding principles -- that ham radio is state-of-the-art, innovative and relevant," he said.

"Radio amateurs have entered a new era. More

than a dozen Amateur Radio satellites are in orbit with more to come. Software is expanding the capabilities of their radio hardware and communication by digital voice and data is expanding rapidly among hams," Harrison said.

In addition to the new fifth pillar, the ARRL has launched a year-long ham radio recruitment campaign emphasizing the Amateur Radio Service as a scientific national resource. The campaign invites newcomers to discover ham radio in the 21st Century -- where hams are using science, technology and experimentation to explore the radio spectrum. "For more than 90 years, the ARRL has been at the forefront of technology, encouraging experimentation and education through its license training resources, publications and periodicals. ARRL provides its members with top-notch technical information services, trusted product reviews and radio spectrum advocacy," he said. "The ARRL Laboratory is a centerpiece of ham radio technology, contributing to radio electronics experimentation, spectrum development and advocacy, and radio frequency engineering."

Harrison also noted that many hams attribute... "Amateur" Radio as launching their professional careers in radio engineering, satellite communications, computer science and wireless communications. "This is less about defining a new course for Amateur Radio, but simply recognizing a course that has always been a precept of radio amateurs and the ARRL," he said. Referring to the federal rules and regulations for Amateur Radio, he explained that one of the defining principles of the Service's very creation by the government is the amateur's proven ability to contribute to the advancement of the radio art. Harrison remarked, "Today's technology is nothing new to ham radio!"

--*The ARRL Letter*, Vol. 27, No. 19, May 16, 2008

RUSSIAN HAM PHRASEBOOK AVAILABLE ONLINE

A book of Russian phrases related to amateur radio, first published in the 1980s, is now available online at no charge. Author Len Traubman, W6HJK, says the original 20-page booklet and pronunciation guide was created during the Cold War "to help radio colleagues communicate citizen-to-citizen across political borders." The book is now available for free at:
<http://traubman.igc.org/russian.htm>.

--*CQ Newsline*, January 28, 2008

PASSING COMMERCIAL TRAFFIC

"Is it legal, and if so when, to handle business traffic during emergencies?" This is a frequent question by amateurs. The question partly comes about as a result of changes made by FCC in Part 97 in December 2006. The changes dropped reference to Emergency Communications Declarations (ECD) by the FCC. The result of this change is that the FCC no longer declares when an emergency exists and, therefore, when amateurs may deviate from FCC Amateur Radio rules to protect the public.

The bottom line is that other clauses in Part 97 allow amateurs to deviate from standard Amateur Radio practices when legitimate emergencies warrant such actions. Provided the purpose of businesslike communication is to protect life and property during an emergency, hams should have no fear of being threatened with enforcement action.

--From Weaver's Words, May 7, 2008

FCC CHANGES FEE ADDRESS

The FCC has changed the bank providing its "lockbox" service, and there is a new address to which fee payments - including amateur vanity license fees - should be sent. The Commission announced that lockbox service will be provided by US Bank in St. Louis, Missouri. For amateur vanity call sign fees, checks should be mailed to: Federal Communications Commission, P.O. Box 979084, St. Louis, MO 63197-9000.

OHIO ARES TEAMS LEND SUPPORT TO HEPATITIS VACCINATION CLINIC

When news of a hepatitis A outbreak alarmed residents of West Chester, Ohio last month, local officials sprang into action to inoculate more than 1200 people who had eaten at a local fast food restaurant; an employee with a confirmed case of the virus worked at the restaurant in March may have contaminated ice and other food items, health officials said. Inundated with more people than expected, Butler County Health Department and Emergency Management officials were overwhelmed with traffic, communication problems and general logistics of the event. When a second hepatitis A vaccination clinic was scheduled for April 5, officials called on local Amateur Radio operators to assist with communications, traffic and crowd control.

--From Weaver's Words, April 9, 2008

HAMS INVENTORS

With the emphasis on emergency communications, contesting, and the fellowship of ham radio, the media often overlooks the contributions that amateur radio makes to everyday technology.

In Wilmington (NC) Star-News (with 47,000 circulation), there was a front page article on Mike Costabile, WD4MGP, owner of Precision Time. Mike's company manufactures a basketball timing system that is used in the NBA, NCAA and the Olympics. Mike is a former NCAA and NBA referee, and he invented the system because of disputes as to when the clock stops relative to play on the court. He developed the RF based system with John Guerriero, KG4HDT. Mike and John are also both active in ARES. Here's the hyperlink to the article.

http://www.starnewsonline.com/article/20080318/NEWS/239224273/1005/NEWS&title=Bolivia_makes_time_stand_still_on_basketball_courts

--Bill Morine, N2COP, North Carolina PIC Chairman - ARRL PR Committee

COLOMBIAN EARTHQUAKE FREQUENCIES

CQ Public Service Editor Bob Josuweit, WA3PZO, relays the following information from the International Radio Emergency Support Coalition (IRESC), via G4HPE: The following frequencies are in use by amateur radio rescue teams following the 5.5 magnitude earthquake in Colombia: 7077kHz, 7085kHz, 7140kHz.

PLEASE keep these frequencies clear to allow the emergency support to continue. Frequencies provided from Oscar HK6PRO, Emergency Dispatcher and Firefighter - IRESC member in Colombia.

In addition, the IRESC website reported that, according to the Global Disaster Alert and Coordination System, a magnitude 5.9 earthquake struck just off the coast of Guatemala on the morning of May 27. This was confirmed by the US Geological Survey's Earthquake Center. As this is posted, this has not yet been reported by the mainstream media, and there are no reports yet of amateur frequencies in use there. All amateurs should keep the above frequencies clear, and listen for any distress calls out of Guatemala.

--CQ Newslines, May 28, 2008

CAPT. BOB SEARS TRANSFERRED

Salvation Army Captain Bob Sears will be leaving Cambridge after 12 years of service. He is being transferred to Painsville, Ohio. The transfer will officially take place on July 2. Captain Sears was pleased with all that was accomplished by the Salvation Army, particularly the Learning Center and the Sack Lunch Program. There will be an open house at the Salvation Army located on Dewey Avenue in Cambridge on June 29.

-- *AVC News May 17, 2008*

OHIO STATE PARKS ON THE AIR

A new operating event has been proposed. On Saturday, September 6, from noon to 8 PM, amateurs are asked to try to put all of Ohio's State Parks on the air. This is a good way to show off our state, get out in the great outdoors, picnic with the family, and have fun on the radio. Let's see if we can get CARA members to set up a special event operation. Let Sonny Alfman, W8FHF, know if you are interested.

VANITY FEE INCREASE?

The FCC is proposing to increase the fee for an amateur radio vanity callsign from \$11.70 to \$12.30. Each year, the FCC must review all fees and reassess the amounts relative to the costs of administering specific programs. A final decision on fees is generally made in the fall.

--*CQ Newslite, May 28, 2008*

FOOD CORNER

It's the time of the year for picnics, cookouts, and family gatherings. Here is a nice summer side salad for those occasions.

4 Bean Salad

1 (16 oz) can green beans, drained
1 (16 oz) can wax beans, drained
1 (16 oz) can garbanzo beans, rinsed and drained
1 (16 oz) can kidney beans, rinsed and drained
¼ c. slivered green pepper
8 green onions, sliced
¾ c. sugar
½ c. apple cider vinegar
¼ c. vegetable oil
1 t. salt

In a large bowl, combine all of the beans, green peppers, and onions. In a small bowl, combine remaining ingredients; stir until the sugar

dissolves. Pour over bean mixture. Cover & refrigerate overnight, stirring several times.

TRADING POST

CLUB CLOTHING

Carolyn Poland, KA8UJA of Newcomerstown, has started Bluebird Embroidery. She sells hats, shirts, jackets, and other items of clothing, and towels on which she will embroider your name, call sign, and organization as well as other items. Contact her at bluebirdembroidery@hughes.net for more information on full line of items and costs.

CARA'S CLUB PATCH



Contact Lyn Alfman, N8IMW, to buy a CARA patch which can be sewn on clothing or a hat. The cost is \$2.50 each.

CABLES FOR SALE

(New, in package) three (3) 25' runs of RG8/U all w/silver N connect, direct burial cable from cablexperts.com. \$10.00 each OBO.

Part #: CXP008C25 (<30mhz); CXP008C25 (<30mhz); and CXP1318FN25 (450mhz+).

Low Loss Group: RG8/U--CXP1318FN25 is Double Shield, Flexible, Low Loss, UV/DB Jacket = to LMR-400-UF, Belden 9913F. All are Black Non-Contaminating Ultra-Violet Resistant Direct Burial 0.405 -40°C to +85°C.

Cable Features: Double Shield, Low Loss, Remains flexible in extreme cold, and good for directional antennas.

Call: Shelba Watson, KD8EIQ, (740) 638-3894.

From the Newsletter Editor

Please let me know if there is anything that you would like to see in "your" newsletter. E-mail me at lynalfman@aol.com.



73 de Lyn Alfman, N8IMW

BE RADIO ACTIVE!