

Jamboree-on-the Air set for Oct 15-16

Thousands of stations around the world will be participating in the 37th Jamboree-on-the-Air, JOTA, an annual Scouting/ amateur radio event sponsored by the World Bureau of the World Organization of the Scout Movement on Saturday, October 15, 1994 at 0001 hours local time to Sunday, October 16, 1994, 2359 hours local time.

Cub Scouts, Boy Scouts, Explorers, Girl Scouts, former Scouts, and Scouters, and amateur radio operators will participate in the event.

Generally, the exchanges include typical information: name, QTH, Scout rank, hobbies, etc. Some exchanges lead to long lasting pen pal friendships and the exchanges of photos, badges, pins, and patches. Specialized communications such as SSTV (Slow Scan TV) and Amateur TV (ATV) can give some the opportunity to see the other persons. This year, many will have the opportunity to talk to others via OSCAR. Other contacts will be made via packet radio, RTTY and EME (Earth-Moon-Earth.)

Postcard size certificates are free and are available to anyone participating in any way. Send requests to: Jamboree-on-the -Air Certificate cards, S221, 1325 West Walnut Hill lane, PO Box 152079, Irving, Texas. 75015-2079 with a SASE large enough to hold the cards ordered.

See page 7 for operating frequencies.



WACOM will purchase videos for General class

The club will purchase videos that will prepare hams for the General class license. Jim Burtoft, chairman of the Education committee made the recommendation at the August meeting. He said that the club provides classes for beginners but doesn't go any further in education. The tapes at a cost of \$99.00, will help the education committee extend training in other areas of ham advancement.

Digital networking program presented

Three hams from the Pittsburgh area provided club members with an inside look at digital networking at the August general meeting. Don Broderick, N3GUZ; John Kaminsky, N2VQJ; and John Vukovic, N3OVQ talked about the advantages of the new system over existing packet.

Though extremely technical in nature the program was very information and gave us a look at what will be the future in amateur radio.

WACOM at Pumpkin festival

Club members will be operating a special event station at the Houston Pumpkin Festival on Saturday and Sunday, October 8th and 9th.

So far, eight club members have signed up to work the event. A sign-up sheet will be available at the October meeting. See Walt Piroth.

ARES Report

Walt Piroth, N3BKW
ARES EC Washington County



As a result of the Crash of US Air Flight 427 the Beaver County ARES group put out a call for help on the Sunday night District ARES Net. Washington County responded with five operators over a three day period. September 15, 16 and 17th. Reporting to the crash site were; N3IKU, KA3MZS, N3HKQ, N3RWY and N3BKW. The assistance was requested because of the extreme time operators were needed. Their Net was in operation the night of the crash, September 8th, until Sunday, September 18th. Communications was provided for the Red Cross, N.T.S.B., local police and others.

Eleven ARES members provided communications for the Labor Day Cancer Society

5K Run/Walk. It's a little rough dragging yourself out of bed on Labor Day for something like this but it's for a worthwhile cause and the Cancer Society honestly values our help..

The unofficial number of participants was 450, about ten more than last year. Of the 450, undoubtedly the most dedicated was a four year old guy who wasn't going to be denied. The time keeper needed to keep the time clock running an extra ten minutes after the 'next to last' finisher crossed the line so that he could finish. Frank, UWW, told the time keeper he had to keep the clock running. His Mom, who went along for the three mile plus run, told me that this had become something he felt he just had to do. She had no idea why. She apologized for

him holding everything up, but we were there for however long it took.

Jim Grazulus thinks he was about ready to give it up as he was coming around the big bend in Maiden Street near Coke a Cola but got a rush when he came over the top of the grade and could see the time clock that wasn't that far ahead. He actually did some running down the hill. Well anyway, with the crowd cheering and two bicycle escorts, Joe and Jim, he finished in something near an hour. Says he's not sure about next year. Joe Sarver is probably safe for a few more years.

ARES set plan: We are going to try a SW Section wide Simulated Emergency Test (SET) the first weekend in November. The Weather Service and Red Cross are supposedly involved. Hopefully a tie in with the Traffic Net is also to be attempted...

Please try to check into the SW PA District Net on Sundays at 7:30PM. (147.09+ repeater.)

Technical Bulletin: From a Chrysler Technical Service Bulletin. No. 08-31-94. Titled: Installation of Radio Transmitting Equipment."

In almost every transceiver installation paper I've seen it says to fuse both the Positive and Negative power leads, but Chrysler says; "Do not fuse the Ground lead. If the ground side fuse were to open, the entire supply current would be conducted by the coax shield. This could cause the feedline to overheat with possible resulting damage." I think they're right.

I have the complete five page Chrysler Bulletin. If anyone would like to read it, let me know...

WACOM

Committee Phone Directory

A.R.E.S.	Walt Piroth, N3BKW	746-2327
RACES	Bob Ketzell, KB3IN	228-0425
EMA	Dave Smith, N3LIK	225-0346
MARS	Jack Kelvington, K3DMY	223-3219
President	Dave DeMotte, N3IDH	228-8178
Vice President	Joe Stout, KA3MZS	228-1090
Secretary	Tom Fox, KA3NIY	223-9666
Treasurer	Russ Burhenn, N3NEL	222-4037
Education	Jim Burtoft, KC3HW	228-0546
2mtr Net Mgr.	Norm Torisky, N3KLR	745-6154
10mtr Net Mgr.	Joe Musante, WB3GTE	223-0897
Newsletter Editor	Jim McNutt, NW3X	941-5159
Repeater	Sam Mayberry, W3CYO	222-0367
VE Testing	Stan Cole III, NX3P	223-0104

Club members staff Cancer Society's 5K run



After the race club members stopped for coffee at the Subway restaurant. From left to right are: Frank Holden, Joe Stout, Walt Piroth, Judie McNutt, Kevin Smith, Bill Hill, Joe Musante and Jim Grazulis. Not pictured are Russ Burhenn and Jim McNutt.

The Annual American Cancer Society's Labor Day Classic 5K Run was held on Monday, September 5th. Club members provided communications along the route from Washington Park to Washington High School. Walkers started their trek at 8:30AM and runners took off at 9AM.

Approximately 452 runners and walkers participated in this year's event with Joe Sarver of Washington winning the race once again.



Joe Stout, pictured at right, and Jim Grazulis used their bikes to keep pace with runners along the route.

Installing radio gear in your car

Installing radio equipment in a vehicle can be difficult and time consuming but not impossible. I recently installed a 2 meter radio, UHF business radio and scanner in my Chevy S10 Blazer. I'm not the most mechanically inclined but with a little patience I managed to install all three radios — and they work. With the help of a Chrysler tech sheet I have broken down the installation into various divisions. Of course there is the right way to install and then again there are some short cuts which I have taken. I have included both.

ANTENNA LOCATION:

Antenna location is the most important consideration in any mobile installation. For VHF and UHF antennas, the recommended location on almost all vehicles is in the center of the roof. The center of the trunk is an acceptable alternate.

ANTENNA INSTALLATION:

Permanently installed antennas are preferable over magnetic, glass or body lip mounts for anything other than low power or temporary installations. Most of the alternate antennas will reflect some power back at the feedpoint. Much of this will be radiated from the feedline inside the passenger compartment, and may be picked up by the vehicle wiring. I mounted two 1/4 wave antennas in the roof of the vehicle. One for UHF and one for 2 meters.

For VHF and UHF, a good quality "NMO" (New Motorola) base or other mount with feedline (center conductor and shield) soldered to the base is recommended. This will allow the maximum flexibility in antenna selection and is the best choice for electrical and mechanical considerations. Use the proper hole saw (3/4" for NMO) or have it done professionally if

you are not comfortable with power tools. This bit has a standard drill bit in the center and a circular cutter 3/4" around it. It is shallow thus preventing the cutter from going too deep and slicing through the headliner. I lined up the holes directly behind one another approximately 14" apart. Hole plugs are available, for use at sale or trade-in, if you expect to remove the antenna base.

To install the antenna



base in the hole, remove the one or two door trim pieces at the pillar where the cable is to be routed or the trim piece that runs down the side of the windshield and ease the headliner away from the roof. Insert a piece of flat steel or plastic banding and guide to the desired corner. Pull it through, leaving 6" or so to tape the transmission line to it.

....the right way and my way

Continue pulling until the antenna base is one inch or less from the hole, then seat the base and screw on the outside ring, O-ring down. Tighten with an open end wrench and apply a small amount of silicone grease to the contact and insulator surface of the base. This will help exclude water but must be renewed periodically.

For the scanner, I used the existing AM/FM antenna mounted on the right front fender. Antenna Specialists makes a splitter that takes advantage of the AM/FM antenna allowing the car radio and scanner to work off the same antenna. (My last 5 vehicles have used this splitter with excellent results). Pull the AM/FM radio from the dash far enough to disconnect the antenna and install the splitter. Then feed the scanner lead down behind the dash to the scanner's possible location.

UNDERHOOD WIRING:

Connect the power (battery +) lead at the battery or at the power distribution center, if the vehicle has one. A ring terminal of the proper size should be used. Solder if the terminal is exposed to the weather. Wheel bearing grease or a commercial protectant should be used to slow corrosion. This lead should be fused as close to the battery as practical to protect the wiring. If the power connection is underhood, use a weatherproof fuse holder.

It is preferable to connect the ground (battery - lead at the battery connection to the body (this is usually a 6 or 8 AWG black wire from the battery negative terminal to a screw at the wheelhouse or radiator support). If a separate sheet metal ground is used, clean the paint off a one inch or so diameter area of the body panel where the ground lead is to be connected (usually the case with commercial trunk mount radios). An awl may be used to pierce a starting hole for a #12, minimum plated ground screw. A ring terminal with lockwasher serrations of the proper size for the screw or a separate serrated (not a split or SAE) lockwasher should be used between the terminal and the screw head.

If the power cable must pass through the dash panel, try to find an existing hole with a grommet that is unused. If none is available, pull the carpet back from under the dash panel in the passenger footwell in the cabin.

FUSE BLOCK WIRING: I ran my power lines (fused) (+) from the fuse block up under the dash near the firewall. The UHF and scanner lines were plugged into the block for continuous power while the 2 meter line was plugged into the block for power only when the car was running or in the accessory mode on the ignition switch. The ground wires (-)

were connected to a screw under the dash near the block.

DO NOT FUSE THE GROUND

LEAD: If the ground-side fuse were to open, the entire supply current would be conducted by the coil shield. This could cause the feedline to overheat with possible resulting damage.

TRANSMISSION LINE:

The transmission line (RG-58 coaxial cable) should be treated in the same way as the power cables. Route flat along body sheetmetal wherever possible. If it is necessary to cross over wiring, cross at right angles. It is important to maintain maximum spacing to the vehicle harnesses, especially if the antenna is not a good match. Use the best cable possible (98-99% braid coverage or braid/foil) especially at UHF and above. Do not rely on the obsolete military "RG" designations as an indicator of quality.

The use of N, BNC or C connectors is recommended over "UHF" connectors. A small amount of silicone dielectric grease in the connector will minimize condensation problems.

Install the connectors carefully. There are good instructions in the ARRL handbook. Use a hot, high voltage iron and work quickly, to prevent damage to the cable dielectric.

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Radio installation

(continued from page 5)

RADIO MOUNTING: Mount the transceiver to a solid surface. If you use screws through the floor pan, put body sealer over the underbody projections. This will keep moisture out of the carpet and insulation, and will forestall rust in the area. Watch out for wiring harnesses routed under the carpet and behind the instrument panel.

In my case I have all 3 radios stacked on top of one another. By removing the center console mount I was able to work on mounting two of the three radios together outside of the car where I had some room to work. I first removed the base of the UHF case and mounted it onto a sloped wooden frame that I built. I then screwed the wooden base into the console mount. The 2 meter bracket is bolted into the top of the UHF case making sure that the small bolts did not interfere with the guts of the radio and covered them with electrical

tape and then reassembled the UHF radio. The center console was then mounted in place over the hump. The scanner bracket was mounted into the lower front of the ash tray



directly above the other radio positions.

Next I mounted the 2 meter radio and scanner into their brackets. Power cables can now be connected and last but not most important - I matched my two way radio antennas with an SWR meter.

Hey! It works!

Call toll free to the FCC

The FCC has instituted a toll-free phone line at its Gettysburg, Pennsylvania licensing division for customer service inquiries. Amateurs may call 800-322-1117 weekdays between 8 AM and 4:30 PM Eastern Time to access an automated information system with recorded messages on interference complaints, form requests, records, and Amateur Radio call sign assignments.

Other messages regard fee information and processing times. A TouchTone telephone is required.

The FCC said the new service was part of its response to a presidential order that the federal government be "customer driven." The FCC said it used a series of focus groups with external customers to identify the desire for an 800 number at its licensing division.

"Within the next 18 months," the FCC said, "customer service standards will be developed for other areas of Commission operations to ensure that FCC customers receive the highest quality of service possible. As these new standards become available, the FCC will inform its customers."

from the President

Dave DeMotte, N3IDH



Many thanks to Jim, NW3X, for the many years he has served as the WACOM Ham editor. Jim has brought this newsletter a very long way since he took over and the club is better because of it. Thanks again Jim, you're leaving some tough shoes to fill.

While doing some research on our club, I've found some interesting history. One thing was an undated list of the charter members of WACOM that appears to the right. One of the familiar names is a young guy named Bob Ketzell, only with the call WA3OKK. Bob's still a young guy, so he must

have been licensed about age 10 way back when!!! Also, did you know that on April 2, 1976 we changed our name from Washington Area Communications to Washington Amateur Communications?

We're taking orders for WACOM shirts, jackets and sweat shirts. The October 6 meeting is the deadline for this order. Call or see me there for price and details.

And finally, don't forget we'll need your help at our Hamfest on November 20th.

WACOM Charter Members

Bob Kuhn	WA3UQN
Skip Szafraniec	WA3LDM
Harry Mikus	K3IVU
Dennis Presky	K3PSP
Henry Porter	WA3TOB
Ann Porter	WA3TNX
Annie Szafraniec	WA3LDL
Bob Ketzell	WA3OKK
Tim Povlick	WA3INX
Tom Povlick	WA3VDB
Art Mueller	WA3BKD
Jim Cook	WA3APC
Alfred Hancq. Jr.	W3SFG
Tad Danley	WA3TGR
Tim Herriott	K3VUD
Willis Presky	W3UGI
Harry Killen	WA3FOJ
Jeff Shearer	WA3UAT
Bruce Clutter	WA3WJF
Art Van Whye	WA3WBO
Dick Coen	K3DXV

Plants duo on track as hams

Bud Plants and his son, Michael, think amateur radio is great! That's because they just got their first callsigns - together. Bud is N3TIR and Michael is N3TIQ.

Bud and his son recently passed the Tech class license and are quickly heading for general.

Bud said that he's been working on the 13WPM code for about a month now and will soon attempt to move past that hurdle.

Continued from page 1

JOTA Operating Frequencies

Band	SSB (Phone)	CW (Morse Code)
80 meter	3.740* & 3.940MHz	3.590MHz
40 meter	7.090* & 7.290MHz	7.030 MHz
20 meter	14.290 MHz	14.070 Mhz
17 meter	18.140 Mhz	18.080 Mhz
15 meter	21.360 MHz	21.140 Mhz
12 meter	24.960 Mhz	24.910 Mhz
10 meter	28.990 & 28.350** MHz	28.190 Mhz

* Not authorized to transmit in the USA (Region 2) However you may listen

** For USA, to allow Novices to participate in JOTA on the phone

WACOM Calendar Events for October 1994

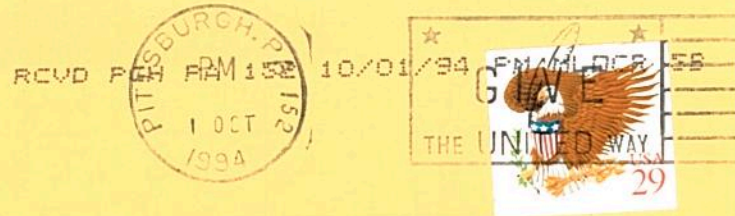
TUESDAY			THURSDAY	SATURDAY/SUNDAY	
DATE	2 Mtr NCS	10 Mtr NCS			
4	N3KDP	KD3VX	6 WACOM Meeting	1/2	Pumpkin Festival Jamboree-on-the-Air
11	N3PCE	WB3GTE		8/9	
18	KA3RNM	N3HKQ		15/16	
25	AA3FN	KA3VOM		22/23	
				29/30	

Tuesday 8:30 PM - 2 Mtr Net 145.49/443.3/224.4
Tuesday 9:00 PM - 10 Mtr Net - 28.340MHz
Sunday 9:00 AM - RACES Western PA Net - 3990.5KHz
Sunday 7:30PM - ARES Western PA Net - 147.609
Skywarn Nets - K3PSP/R - 146.79MHz
Digipeaters (WASHPA - 145.01)
Club BBS - KA3UWW on 145.05
County Simplex Frequency - 147.495

8-9 WACOM Special Event at Pumpkin Fest
 15-16 Boy Scout JOTA

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Washington Amateur Communications
WACOM
P.O.Box 1386
Washington, PA. 15301



First Class

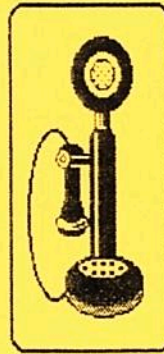
Mail to:

FAY FRANKENBERY, KA3VOM
 KEITH & DAVE FRANKENBERY, KD3RZ
 362 LINNWOOD ROAD
 EIGHTY FOUR, PA. 15330



WACOM MEMBERSHIP PHONE DIRECTORY 1993

Allison, Eric	N3KMJ	Eighty Four	348-6372
Balaban, Tom	K3PLM	Washington	225-5487
Beazley, Pete	N3LVP	McMurray	941-6297
Bigley, Richard	N3KEJ	Smithton	872-9675
Bozek, Stephanie	KA3RUA	Washington	UNLISTED
Brummer, Ed	W4RTZ	Yorktown	804-898-8031
Burhenn, Russell	KA3ZYT	Washington	222-4037
Burtoft, Jim	KC3HW	Washington	228-0546
Burton, Harry	K3BQT	Canonsburg	745-7932
Cole, Bill	N4NKI	Avella	587-5853
Cole, Stan	AD3T	Washington	222-9211
Cole, Stan III	NX3P	Washington	223-0104
Cole, Susan	N3AOK	Washington	222-9211
Deal, Clifford H.	KA3ZDS	Washington	225-8448
DeLost, Tony	KA3UUE	Strabane	745-5241
DeMotte, Dave	N3IDH	Washington	228-8178
DeMotte, Britt	KA3ZGD	Washington	228-8178
DiGiovanni, Skip	KA3CDR	Canonsburg	745-3069
Donlevy, Al	W6GNI	Pittsburgh	833-2789
Dorisio, Deke	K3QKS	Hickory	356-7357
Dorn, G. Kirk	N3EKP	Lawrence	941-4927
Dorn, Marian	N3EKM	Lawrence	941-4927
Elliott, Steven	KA3UDR	Eighty Four	225-1901
Fox, Tom	KA3NIY	Washington	223-9666
Frankenbery, Dave	KD3RZ	Eighty Four	225-3885
Frankenbery, Fay	KA3VOM	Eighty Four	225-3885
Frankenbery, Ken	KE3JF	Eighty Four	225-3885
Grazulis, Jim	KA3KSP	Washington	228-7583
Group, Tina	N3NPV	Washington	225-6248
Hasiey, Ed	K3AVD	McMurray	941-9125
Hildreth, Tom	WB3CED	Washington	225-5883
Hill, Bill	W3IBT	Canonsburg	746-1776
Holden, Frank	KA3UWW	Washington	228-0455
Hrutkey, Michael	N3NAM	Eighty Four	222-1762
Irmer, Frank	N3ISF	Pittsburgh	882-1514
Jahgar, Frans J.	KA3VYX	McMurray	941-9297
Johnson, Dan	KB3ATE	McMurray	941-4398
Johnson, Den	N3PBR	McMurray	941-4398
Jones, Buster	KA3QIR	McDonald	926-2858
Jordan, Robert	NY3I	Washington	225-3277
Kelvington, Jack	K3DMY	Meadowlands	223-3219
Ketzell, Robert	KB3IN	Washington	228-0425
Klink, James	N3OBB	Bridgeville	NOT LISTED
Lockman, Ted	WB3BZK	Washington	222-6473
Marraccini, Damon	KB3AFS	Finleyville	348-6406
Marraccini, Leonard	N3KTC	Finleyville	348-6406
Mayberry, Sam	W3CYO	Washington	222-0367
Mazza, Robert	KA3VYY	Washington	222-2242
McCloskey, Bob	KD3VX	Imperial	695-8608
McCloskey, Joyce	N3JPN	Imperial	695-8608
McNutt, Jim	NW3X	McMurray	941-5159
McNutt, Judie	KA3RNM	McMurray	941-5159
Meyer, Joe	WE3K	Canonsburg	745-0749
Moninger, John	WA3VKC	Washington	228-5787
Montgomery, George	W3KVS	Washington	NOT LISTED
Mumper, Dennis	NX3H	Canonsburg	745-4847
Musante, Joe	WB3GTE	Washington	223-0897
Musante, Mark	KA3UTI	Washington	222-6471
O'Korn, Jack	AA3FN	Washington	228-4197
Ostergaard, Dale	N3HXZ	Mt. Lebanon	561-5357
Perry, Jack	KA3YJY	Claysville	948-3515
Phillips, Harold	WA3DWX	McDonald	926-2682



Fall Edition

Piroth, Walt	N3BKW	Houston	746-2327
Presky, Dennis	K3PSP	Washington	UNLISTED
Putorti, Carmen	KA3PRQ	Canonsburg	746-3542
Rabe, Doug	NF2H	Washington	223-8905
Reismeyer, Ray	N3AOJ	Leetsdale	266-8768
Rhodes, Bill	N3KDO	McMurray	941-8852
Scears, Charles E.	N3IRE	Washington	223-0960
Schmaltz, Chuck	N3KDP	Canonsburg	225-9251
Schnore, Valerie	N3BXF	Washington	228-2472
Shaffer, Jeff	KA3TMV	McMurray	941-1737
Shaffer, Jerry	WA4ONC	McMurray	941-1737
Shaffer, Sandi	N3FPF	McMurray	941-1737
Shutt, John P.	N3BXE	Imperial	899-2439
Smith, Dave	N3LIK	Washington	225-0346
Smith, Kevin J.	N3HKQ	New Eagle	258-4153
Smith, Steve	WD4SDC	Alexandria, VA	301-266-9032
Smith, Stanley	KA3WBD	Washington	225-3116
Smith, Vernon	N3JNM	Crafton	922-2142
Stark, Carl	KD3KH	Eighty Four	225-5684
Stark, Donald	N3HOW	Eighty Four	228-4177
Stark, Margi L.	N3HOZ	Eighty Four	228-4177
Stinely, Mike	KB8KSY	Morgantown, WV	304-292-0625
Stinely, Regis	NZ3E	Washington	225-8263
Stout, Joe	KA3MZS	Washington	228-1090
Sutton, Francis L.	W3SNN	Johnstown	814-255-3723
Thompson, Harriet	WB3JWI	Washington	225-6603
Torisky, Norm	N3KLR	Canonsburg	745-6154
Torisky, Susan	N3MDP	Canonsburg	745-6154
Unrue, John	N3PCE	Washington	225-6499
Vaglia, Genevieve	N/C	Eighty Four	222-6368
Vaglia, Jim	N/C	Eighty Four	222-6368
Vintle, Martin	N3IKU	Canonsburg	745-6809
Zborowski, Sam	WA3DIP	Eighty Four	223-9544

EMERGENCY SPEED DIAL NUMBERS

Access Code +

911 LOCAL POLICE - FIRE

1111 STATE POLICE

