

VOLUME: XXXIX

No: 7

July 2005

Central Ohio Amateur Radio Emergency Service  
**Bulletin**



**EC NOTES**

Rich Jordan, AA8DN  
ARRL EC—Franklin County

It is difficult to believe that it is July already. The year may be half over, but we still have many important events yet to come. OSU football season begins on Saturday September 3<sup>rd</sup>, the first of seven home games. The Columbus Marathon will be held on Sunday October 16<sup>th</sup>, the day after the Michigan State game. These events take a large number of volunteers, so please sign up early.

**TOSRV 2005**

The 44<sup>th</sup> annual Tour of the Scioto River Valley was another successful event for COARES and the other ham groups that provided support. I'd like to express my appreciation to the 75 hams that volunteered for the event. Without your assistance, we would not be able to provide the excellent coverage that the riders have come to depend on over the 110-mile route. Just hearing a single "Thank You" from a rider as they pass by says it all. See the TOSRV article in this issue for more details.

**TOSRV VOLUNTEER PARTY**

The annual volunteer party will be held on Sunday, July 17<sup>th</sup> at 5:00 p.m. The location will be at the tour directors home, 629 Dennison Ave in Columbus. Dennison Ave is the street located on the west edge of Goodale Park and Charlie's home is about one block North of Goodale Blvd. I hope to see many of the ham radio and FASC volunteers that participated in TOSRV 2005 at the party. As usual, Charlie and Rick will have plenty of great food.

**RICKENBACKER DRILL**

COARES participated in the first FAA drill conducted at Rickenbacker International Airport since it became part of the Columbus Regional Airport Authority (CRAA). We responded with a small but effective team of communicators that quickly established communications and experienced what it might be like to be among the first hams to be deployed in an emergency. Thanks to everyone that participated, especially since this drill was conducted on a workday. The CRAA was very appreciative of our performance and learned more about ham radio in a disaster situation. Look for K8UB's article.

**July In-Person Meeting**

Wednesday July 20<sup>th</sup>, 2005

7:30 - 9:00 p.m.

**Franklin County Emergency Management**

**and Homeland Security**  
5300 Strawberry Farms Blvd.

**FIELD DAY 2005**

Another successful Field Day has gone in the books. At press time, we were still tabulating the point totals from the logs and other activities. We had a great turnout from hams that wanted to help with the setup and cleanup tasks as well as operate. Special thanks go to N8ADO, Bob Baker and KC8AZW, Andy Margraff for managing the logistics of equipment, antennas, generators, tables, logging computers, etc. Look for more details in this issue.

Thanks again to everyone that participated in events. I hope to see everyone at the next meeting on July 20<sup>th</sup> at the Franklin County Emergency Management and Homeland Security office.

Rich, AA8DN

**Field Day Wrapup**  
**Dick D'Auteuil, W1RRD,**  
**& Bob Baker, N8ADO**

We had a fairly successful Field Day outing. We succeeded in putting a three station operation on the air under simulated emergency conditions at the Huber Village Park in Westerville. We rigged the generator so that it would draw fuel from a 5 gallon external supply, so we never had to shut down to refuel. The generator ran for 25 hours non-stop and used around 3 gallons of fuel. We made a lot of contacts, but only 2/3 as many as last year. We contacted stations in 74 of the possible 80 ARRL sections, missing only AK, EWA,

**TOSRV Volunteer Party**  
**Sunday July 17<sup>th</sup>, 5:00 p.m.**  
**(Note time change)**  
**Charlie Pace residence**  
**629 Dennison Ave, Columbus**

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## Emergency Coordinator

Rich Jordan, AA8DN  
868 E. College Ave  
Westerville, Ohio 43081  
614-891-1003  
aa8dn@columbus.rr.com

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## Calling Tree Leaders January—June

Group 1	Bruce Goll, KB8TRI	793-0164
Group 2	Craig Blaine, WB2FVE	891-5378
Group 3	Hugh Czerwonky, K8UB	890-7000
Group 4	Jim Clark, KC8TJX	595-3636

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## July—December

Group 1		
Group 2	Kim Day, KC8RXL	476-2926
Group 3		
Group 4	Mark Griggs, KB8YMN	272-8266

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## ARRL Membership

If you aren't an ARRL member or haven't been a member during the past two years, join the ARRL and a portion of your membership will benefit COARES. To join, send your \$39 (check payable to Central Ohio ARES) and forms to K8QX. Our club will get \$15 if we recruit a new ARRL member or bring back one who has let his/her membership lapse more than two years. Your membership includes a subscription to QST Magazine.

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## Ohio Section Update

*Joe Phillips, K8QOE*  
*Ohio Section Manager*

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OHIO SECTION SUGGESTS - That you visit the Ohio Section Web Page regularly. Go to: [www.iarc.ws](http://www.iarc.ws). Oh by the way, do you want the latest issue (JUNE 2005) of the Ohio Section Journal (OSJ)

delivered directly to your E-mail? Go to the same address; [www.iarc.ws](http://www.iarc.ws).

OHIO SECTION FUTURE DATES - Saturday, August 27 at Noon is when the Ohio QSO party begins. And pencil in the Ohio Section Conference on Saturday Sept 17 beginning at 9 a.m. at the Ohio EMA Headquarters in northwest Columbus.

OHIO SECTION CLUB NEWS - Want a neat club activity? Try a letter writing campaign to your local member of Congress supporting House Resolution (HR) 230. If your congressman is a sponsor, thank him/her for the effort. If not, request he/she get on board. Remember it is not helpful for one letter to be signed by many. The

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## Assistant Emergency Coordinators

**Events Manager:** Dick D'Auteuil, W1RRD  
614-891-0361 e-mail: [w1rrd@columbus.rr.com](mailto:w1rrd@columbus.rr.com)

**Net Manager:** Jeff Gould, N8HFP  
614-837-6171 e-mail: [n8hfp@arrl.net](mailto:n8hfp@arrl.net)

**Training Manager:** Barb Wooldridge, KC8KYP  
614-488-3349 e-mail: [kc8kyp@arrl.net](mailto:kc8kyp@arrl.net)

**Financial Manager:** Mike Day, K8QX  
614-476-2926 e-mail: [k8qx@arrl.net](mailto:k8qx@arrl.net)

**Engineering Manager:** Duane Hall, AB8QU  
614-898-7661 e-mail: [duane@dhco.com](mailto:duane@dhco.com)

**Public Information Officer:** Brent Sheffer, KC8UMV  
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614-794-1395 e-mail: [k8htc@columbus.rr.com](mailto:k8htc@columbus.rr.com)

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## Ohio Section Emergency Coordinator

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743 Fleetrun Ave  
Gahanna, OH 43230  
614-478-3350  
[wb8iny@arrl.net](mailto:wb8iny@arrl.net)

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## District Emergency Coordinator

Frank J. Piper, K18GW  
496 Hillview St  
Pickerington, OH 43147  
614-833-1926  
[ki8gw@arrl.net](mailto:ki8gw@arrl.net)

key is to have everyone write an individual letter. Mail volume impresses Congress.

OHIO SECTION CONGRATS - (A) TO Phil Smith KG8AP, for being named Ham of the Year for 2004 in Cincinnati's OHKYIN ARS; (B) TO Jim Ashman, W8ASH, for accepting the Ohio coordinator position in the ARRL Grassroots program. The appointment by Director Jim Weaver, K8JE, makes Jim the focal point for hams writing state and national legislature members about ham radio - a long overdue program; (C and D) TO Charles (Bill) Ake, W8PRH of Fairfield and TO Rob McPherson, N8OMW, of Hamilton; both for defending ham radio in the public press. In a letter to the editor, Bill admonished a national magazine for misidentifying the ARRL while Rob corrected a major Cincinnati television news station for confusing Ham Radio with CB; and (E) TO Ross Mergentheiler, NS8C, of Oregon, OH, for 15 years of excellent service as the VE for TMRA in Toledo. He recently announced he will retire.

at Lorain County Fairgrounds - sponsored by Northern Ohio Amateur Radio Society. For more info: <http://www.NOARS.net> or contact Thomas Porter, W8KYZ: Phone: 440-930-9115 or Email:

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## The COARES Bulletin

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## Repeaters

Primary: K8DDG/R  
147.060 +6.00  
444.800 +5.00  
94.8 Hz CTCSS

Secondary: AA8EY/R  
147.090 +6.00  
94.8 Hz CTCSS

UHF: WB8INY/R  
444.275 +5.00  
94.8 Hz CTCSS

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## Nets & Meetings

The COARES net meets Wednesday evenings at 8:00pm local time on the 147.06+ repeater, except for the third Wednesday of each month which is reserved for our General Meeting, held at the Franklin County office of EMA/Homeland Security.

[tporter161@comcast.net](mailto:tporter161@comcast.net)

Sunday (17) Van Wert Amateur Radio Club hamfest at the Van Wert County Fairgrounds - for more info: <http://www.w8fy.org> or contact Stephen Kouts, WA8WKF; Phone: 419-238-5560 or Email: [skouts@bright.net](mailto:skouts@bright.net).

Saturday (23) OH-KY-IN Hamfest at the Diamond Oaks Career Center, Cincinnati; sponsored OH-KY-IN ARS: for more info; <http://www.ohkyin.org> or contact Carol Hugentober, WA8YL; Phone: 513-661-5323 or Email: [hamfest@ohkyin.org](mailto:hamfest@ohkyin.org)

Sunday (31) Portage Hamfair '05 at the Portage County Fairgrounds. For more info: <http://www.parc.portage.oh.us/> or contact Joanne Solak, KJ3O: Phone: 330-274-8240; Fax: 330-274-8527 or Email: [ljsolak@apk.net](mailto:ljsolak@apk.net)

DE Joe Phillips, K8QOE, Ohio Section Manager

and PAC in the US and NL, NT, and SK in Canada. Thunderstorms put us off the air for a total of about four hours, but we did not have to shut down early to accommodate any dog shows. We did have trouble keeping the rigs busy, especially during the wee hours of the night. Band conditions were pretty good, especially on 80 meter phone, which was our most productive band. We made 604 contacts on 80 meter phone, 178 on 20 meter phone, 145 on 40 meter phone, and 3 on 15 meter phone. (We gave up on 15 meters, after about half an hour of not much activity). We didn't have enough people or equipment to bother with getting a station set up for VHF.

The secret to our performance on 80 meter phone was the full size loop antenna hoisted skyward by a large helium balloon. This year, KC8AZW sent a small video camera up with the balloon, so we could look down on ourselves. We were able to keep the 80 meter station fairly active. Other than the 4 hours of weather related pauses, this station was active for all but 2 hours of the Field Day period, much better than we were able to doA on the other stations. Unfortunately on Sunday, unable to handle all the contacts being made by K8UB, the balloon gave up its helium.

We would like to acknowledge the following operators;  
 KD8BOU, KB8YQS, KC8PFD, WA8OMQ, K8HTC, KC8VWP, W8AJW, K8LE, KD8AXT, KB8CMW,

W1RRD, N8ADO, KC8KHS, KC8AZW, KJ8G, WA0YWD, K8CMH, KI8GW, KC8ESO, KB8DYR, K8UB, KA8ZPF, WD8OBT, KC8UTW, KC8UMV, and AA8DN.

Visitors included:  
 Chris Fosnaugh, KD8BOU, American Red Cross - FASC Coordinator  
 Chris Bailey, K8CMH, Columbus Division of Police  
 John Bokros, Westerville Division of Fire  
 Jim Leonard, WD8MRT, Franklin County Emergency Management and Homeland Security

Guest operators included Matt Taffan and Dan Harr.

Interesting entries in the log:  
 W 1 A W ( A R R L H Q )  
 NF3EMA (Federal Emergency Management Agency)  
 W3ADO (US Naval Academy -- I like the sound of this call!)  
 KA1SVW/MM (1C from RI -- did you see the magazine article?)

Next year, hopefully we will have more participation by the membership and varied menu from the chef. Also, we hope to have a PSK station on line. Thanks to everyone who helped out in the setup, operation and the takedown. Hopefully we acknowledged everyone who participated, and to those folks we missed, our apologies.

Let's do it again, next year !

**VOICE OF ALADDIN  
 HAM-O-RAMA  
 Saturday, August 6th  
 8:00 AM  
 Aladdin Shrine Center  
 3850 Stelzer Road  
 Columbus, OH  
 Visit the COARES booth!**

**Rickenbacker Airport Drill  
 Summary  
 Hugh Czerwonky, K8UB**

On a very warm June morning, with the temperature hugging 73 degrees and not a cloud in the sky, COARES participated in an emergency exercise by providing communications support to the Columbus Regional Airport Authority. This exercise was the first FAA drill to be conducted at Rickenbacker International Airport. The scenario involved a simulated airline crash at Rickenbacker International that resulted in mass casualties.

COARES configured a team of nine communicators that were assigned in a somewhat different capacity than usual. Our role this day was to support the transport of victims via buses to three hospitals in Columbus and one in Circleville. With one communicator on each of the buses, our only communications with the hospitals was after the buses arrived with victims.

Net	Day	Time (local)	Frequency
Central Ohio ARES	Wednesday	8:00 pm	147.060 (+) (94.8 PL)
Central Ohio Traffic Net	Daily	7:15 pm	147.240 (+)
Central Ohio Severe Weather Net	Tuesday (Mar ~ Oct)	7:30 pm	146.760 (-) (123.0 PL)
Lancaster / Fairfield County ARC Net	Monday	9:00 pm	147.030 (+)
Delaware County Net	Monday	8:00 pm	145.170 (-)
Hocking Valley ARC Net	Wednesday	9:00 pm	147.345 (+)
Madison County "Get Together" Net	Tuesday	8:00 pm	147.285 (+)
Newark ARA Net	Tuesday	9:00 pm	146.880 (-)

Usually we would have dispatched separate communicators to each hospital. However, this drill gave us an unusual opportunity to test our communication skills both with installing our radios on the busses and then at the hospitals once the victims had been delivered. Reports consisted of the number of victims, and required us to include the numbers transported by medic units that had delivered victims earlier. Reports were then made to the EOC with the total head count for each hospital.

COARES also had a communicator with the EOC on the field (AB8JC-Steve Howell) and Operations Manager, Barb Varga (KC8TJX-Jim Clark). Their traffic was informational to the Columbus Red Cross where our NCS had been set up for the event. Our Red Cross liaison was Kevin Liston, N8WDU and he was by the side of NCS throughout the entire event.

This type of communications and traffic was very beneficial to the Red Cross as we provided a supplemental communications method to the 800 system they were using, reflecting the local metro traffic and the role the Red Cross played in disaster control and relief effort. In the event the 800 system were to fail for whatever reason, COARES would have been in an ideal position to take over the main flow of informational traffic from the crash site to the Red Cross.

Before the event even began, we had a conversation with the Red Cross about passing confidential personal victim information (name) from the hospitals to the EOC and Red Cross using ham radio. HIPAA regulations prohibit the transmission of any personally identifiable information over open channels, which includes all ham radio transmissions. Since FCC rules prohibit hams from encrypting their transmissions, our ability to serve agencies that need to send confidential information is severely restricted.

COARES also provided administrative communications (not part of the role-play) to assist in the conduct of the drill. Once a request was received from the EOC, we began moving the busses from a staging area outside the fence surrounding the airfield to a gated entry point. Each bus was met at the gate by a port authority vehicle and escorted to the scene to pick up victims.

We learned a lot from this incident as to how to better deploy resources and handle the timing of traffic on the net. Perhaps with more communicators we could have established an administrative net to handle the logistical issues and a second net to handle the actual event traffic among NCS, the EOC, Red Cross and the hospitals to speed up the information flow.

What this did show us, with the group we did muster to deliver communications, was how a real event may progress. A small group responds and is deployed to begin to deliver high priority traffic. This core group would get our feet on the ground and could be expanded as additional volunteers become available or as our role is expanded. A second or third NCS operator would also improve our ability to manage the traffic and logging duties more effectively. From that point of view, I believe we delivered what was expected and with a few exceptions, delivered what would represent that strategic traffic in the early moments of this type of disaster.

Some of the COARES communicators were participating in their first airport drill. I personally thought they did a great job in figuring out what the problems represented and handled the communications role of passing formal traffic to NCS in a very professional manner. My hat is off to them and all that took the time, veteran or newcomer alike, to play a role in this event.

Thanks to all that assisted:  
AA8DN – Rich Jordan, Coord.  
K8UB – Hugh Czerwonky - NCS

K8DAH – Dave Hulbert  
AB8JC – Steve Howell  
W8RWR – Bob Rector  
KC8TJX – Jim Clark  
KT4TT – That Meeker  
KC8VWP – Kenny Robinson  
N8WDU – Kevin Liston – Red Cross

**Registration for the ARRL Amateur Radio Emergency Communications Level III on-line course (EC-003) opens Monday, July 18, 1201 AM EDT, and will remain open until all available seats have been filled or through the July 23-24 weekend-- whichever comes first. Class begins Friday, August 5. See <<http://www.arrl.org/cce>> for details.**

### **TOSRV Summary Rich Jordan, AA8DN Event Coordinator**

The 44<sup>th</sup> annual Tour of the Scioto River Valley is in the books. Once again, our multi-county response made it possible to staff the entire 110-mile route on both days.

Hams from Scioto, Pike, Ross, Pickaway and Franklin counties provided the backbone for communications on the tour... the dedicated folks who staff positions all along the route. The amateurs from Scioto County came out in full force this year and staffed positions from Portsmouth to as far north as Bear Creek Rd. KA8YFS, Jeff Stephenson, even took a second assignment in the Waverly area. The group was extremely well organized and provided invaluable assistance when we encountered some radio problems on Saturday. The fantastic cooperation and support provided by the Scioto County team helped make this one of the best tours yet.

Hams provide a high level of rider safety by watching for problems and reporting medical situations to net control. With ten mobile First Aid Service Corps teams on the route, help is never more than a few minutes away. Chris Fosnaugh of

the Red Cross did a great job organizing the FASC units this year. A few days after the tour concluded, "Fos" received his Technician License, becoming KD8BOU.

The radio setup was changed this year due to lack of building space at Scioto Trail State Park. Net Control was moved to the Red Cross chapter house in Columbus, solving the space problem, but creating a new radio problem. The tour needs three repeaters to function, one each in Columbus, Chillicothe and Portsmouth. A beam antenna solved the problem of accessing the Chillicothe repeater from Columbus, but a cross-band unit was needed in Chillicothe in order to reach the Portsmouth repeater. The system was tested several times before the tour and all was ready.

Our friend Murphy has a way of sneaking up on a good plan. On Saturday, we began to receive full strength signals from two Columbus repeaters. Eventually, these signals became so strong that net control was unable to hear any stations on the Chillicothe repeater. Tests were quickly made from different locations in Columbus, and all stations reported the same problem. Fortunately, enterprising hams in Chillicothe and Portsmouth started acting as relay stations and managed to keep communications moving until the interference problem disappeared. After some engineering changes on Saturday evening, everything went well on Sunday.

The 2005 TOSRV ham radio team was one of the best ever. Thank you to all that participated:

KD8AAQ	Steve Houk
N8ADO	Bob Baker
KB8ALM	Howard Hunt
KD8AXT	Nandu Arakali
KA8BQO	Art Wallace
KE8BU	Robert Warnock
KA8CEJ	Wayne Walls
K8CMH	Bailey Chris
KC8CXI	Bud Brickey
K8DAH	Dave Hulburt
KB3DAJ	Dave Doyle

KB8DEO  
K8DJM  
AA8DN  
KB8DYR  
KC8EQA  
WA8EVP  
KC8EVR  
WX8G  
N8GKQ  
KI8GW  
N8HFP  
W8HRN  
N8HSU  
WB8INY  
W8IYE  
KI8KF  
KC0L  
K8LE  
KC8LGW  
WB8MCV  
K8NU  
WM8O  
WW8O  
KC8OBZ  
KC8OOO  
KB8OWK  
KB8PEH  
KC8PJS  
KA8PQC  
N8QKX  
K8QX  
W1RRD  
KB8RUL  
W8RWR  
KC8RXL  
N8SET  
KC8TJX  
KB8TME  
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KC8TYE  
K8UB  
KC8UDJ  
KC8UMV  
N8UTI  
N8VJF  
KC8VOJ  
KC8VWN  
KC8VWP  
KC8VWQ  
KC8VZI  
KB8WHE  
AA8WI  
N8WJS  
N8WLE  
N8XCT

Stu Steenburgh  
Ernie D'Angelo  
Rich Jordan  
Shawn Roberts  
Josh Gould  
Don Weatherby  
Lester Broadie  
Gary Caldwell  
David Stichweh  
Frank Piper  
Jeff Gould  
Herb Nichols  
Doug Bell  
John Chapman  
Wally Giffen  
Mike Swaney  
Ken Coleman  
Andy Elliott  
Bill Smith  
Michael Grimes  
Carl Yaffey  
Wanda Stephenson  
Gary Stephenson  
Dick Reichenback  
Steve Park  
Peg Grimes  
Tim Hileman  
Kevin Ready  
Wayne Cook  
Gary Ballou  
Mike Day  
Dick D'Auteuil  
Brad Baker  
Bob Rector  
Kim Day  
Ron Moore  
Jim Clark  
Pat Howlett  
Bruce Goll  
Bob Larkin  
Hugh Czerwonky  
Dan Kulhanek  
Brent Sheffer  
Ed Wiest  
Mark Fergus  
Thomas Oyer II  
John Bergman  
Kenny Robinson  
Marci Wasserstrom  
Pam Tracey  
Joanne Murphy  
Bernard Cooper  
Tom Oyer Sr  
Nick Rothermel  
Joe Testa

N8XX	Hank Greeb
KA8YFS	Jeff Stevenson
KE8YG	Grant Howlett
KB8YMN	Mark Griggs
KC8YTY	Michael Holtzapfel
KA8ZAF	Greg Compton
KC8ZFA	Beth McVay
KC8ZKS	Kenny Tilford
KC8ZRA	Michael Blankenship
N8ZW	Kim Lozier

**2005 COLUMBUS 10K  
WRAP-UP  
GARY BALLOU, N8QKX**

The 2005 version of the Columbus 10K was held on Sunday June 5. This run has become one of the features of the Columbus Arts Festival weekend, and drew over 500 participants this year.

We had nine COARES volunteers on the course, all veterans of this event, and everything went smoothly. Aside from one minor course change, requiring the movement of the 5 mile marker, we had almost a carbon copy of the 2004 event.

The air temperature and humidity were higher than usual, but we were fortunate enough to have no medical runs on the course, just a few at the finish line. The Race Director, Matt McGowan, was very appreciative of our efforts.

TX to KC8TJX/Net Control, K8DJM, KB8ESU, KC8OFO, N8QKX, KC8TYE, K8UB, N8UTI, and KC8VWP for your help (and a special TX to KB8ESU for filling in on short notice).

Pencil in June 4 2006 for next year's race!

**VOLUNTEERS NEEDED FOR  
MARCH OF DIMES "NIGHT  
MOVES"**  
Friday, Aug. 5th  
Arena District  
Race Starts at 8:00 PM  
Contact W1RRD for details!

# COARES ACTIVITIES

July				
07-13-05	Wednesday Night Net	8:00 PM	147.060(+) (94.8 Hz PL)	Gary Ballou, N8QKX
07-16-05	Net Control Operator Class	9:00 AM—1 PM	Red Cross Chapter House, Room G	Jeff Gould, N8HFP
07-17-05	TOSRV Volunteer Party	5:00 PM	629 Dennison Ave., Columbus	RSVP to Rich Jordan, AA8DN
07-20-05	In-person Meeting	7:30 - 9:00 PM	Franklin Co. Emergency Management and Homeland Security	Rich Jordan, AA8DN
07-22-05	World Famous Pig Run	TBA	Downtown Columbus	Rex Rumley, N8RNA
07-27-05	Wednesday Night Net	8:00 PM	147.060(+) (94.8 Hz PL)	Adam Westlund, W8AJW
August				
08-03-05	Wednesday Night Net	8:00 PM	147.060(+) (94.8 hz PL)	Need Volunteer
08-05-05	Columbus March of Dimes Night Moves	8:00 PM	Arena District	Need Coordinator & Volunteers
08-06-05	Voice of Aladdin Ham-O-Rama	8:00 AM	Aladdin Shrine Center	Rich Jordan, AA8DN
08-10-05	Wednesday Night Net	8:00 PM	147.060(+) (94.8 hz PL)	Need Volunteer
08-17-05	Wednesday Night Net—No Aug. Meeting	8:00 PM	147.060(+) (94.8 Hz PL)	Need Volunteer
08-24-05	Wednesday Night Net	8:00 PM	147.060(+) (94.8 Hz PL)	Paul Flautt, KB8CMW
08-28-05	Columbus Half-Marathon	8:00 AM	Hilliard Darby High School	Bruce Lerner, KC8VEB
08-31-05	Wednesday Night Net	8:00 PM	147.060(+) (94.8 Hz PL)	Adam Westlund, W8AJW

Dated Material

July 2005  
Volume XXXIX, No. 7

Rich Jordan, AA8DN  
868 E. College Ave.  
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