

Allen County HamNews

Fort Wayne Radio Club

Allen County Amateur Radio Technical Society

May 2005

Volume 6 Issue 5

Indiana QSO Party

Don't forget the Indiana QSO Party, Saturday May 7, 1600 Z - 0400 Z. This weekend coincides with the New England QSO Party and the MARAC Coutny Hunters CW weekend, so there WILL be lots of stations from outside Indiana looking for you. There's a bonus for working the Indiana Radio Club Council's Buffalo Stampede station (call tentatively W9UUU).



In addition to competing for awards, you can also collect counties for the Worked All Indiana Award. Both INQP and the WAI are sponsored by Hoosier DX and Contest Club. Rules for INQP are at www.hdxcc.org.

CQ INQP CQ INQP CQ INQP



Fort Wayne Radio Club Spring Banquet

Happy Spring! Doesn't that sound good? When spring arrives can the Fort Wayne Radio Club spring banquet be far behind? No, it can't. In fact the banquet will be **May 13, 2005, 6:30 p.m.** at the Good Shepherd United Methodist Church. It is a total carry-in with the club providing table service, punch and coffee. The entertainment this year, I think will be very good. It will be Al Burke, WB9SSE and Jim Pliett, K9OMA giving a presentation on a rocket project with which they have been involved for the past year and a half at Indiana Institute of Technology. I think you will find this very interesting. So, bring a covered dish to share and a good appetite, enjoy the meal and the presentation. – Carole Burke, WB9RUS

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Allen County HamNews is a monthly joint publication of the Fort Wayne Radio Club (P.O. Box 15127, Fort Wayne, IN) and the Allen County Amateur Radio Technical Society (P.O. Box 10342, Fort Wayne, IN).

Please send any articles, corrections, for sale notices, etc. to the editor, Victor Guess, WB9UZA, wb9uza@arrl.net. Please put "for newsletter" in the subject line. Text should be plain ASCII, graphics should be JPEG or GIF. For those computer impaired: snail mail to 3311 Sanibel Drive, Fort Wayne, IN, 46815-4755.

**Deadline for June issue is Friday, 6/3/05.
Please do NOT send anything in all caps!!**

Internet Home Pages:

Fort Wayne Radio Club:
<http://www.fortwayneradioclub.org>

ACARTS:

<http://www.acarts.com>

Ft Wayne DX Association:

<http://www.qsl.net/fwdxa/>

Hamsplatter

Fort Wayne Radio Club

P.O. Box 15127, Fort Wayne, IN

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President's Corner



May is a busy month for Amateur Radio operators in Northeast Indiana. First of all, Saturday May 7th will be the next W5YI Amateur Radio License Testing session for the Allen County W5YI VE group. The testing will be at the Anthony Wayne Council of the Boy Scouts of America office off West Jefferson in southwest Fort Wayne.

The Fort Wayne Radio Club General Meeting will be the second Friday this month. The meeting is Friday May 13th at the Good Shepherd United Methodist Church at the corner of Reed and Vance across from Snider High School. The meeting is our Spring Banquet and will be a "carry-in" event. You can begin setting up your dishes on the tables at 6:30 PM and we will get started by 6:45 PM. Al, WB9SSE, and Jim, K9OMA, will also be giving a presentation on the IIT amateur rocket launch that they assisted earlier this year.

The following day, Saturday May 14th, will be the annual Diabetes Association walk. The walk will again be held at the IPFW campus and the Fort Wayne Radio Club will be assisting with communications. If you can help with this event, please contact Wayne, KB9OZH, and we will see you there.

The third weekend in May will be the Dayton Hamvention. I know we will have a lot of Northeast Indiana amateurs traveling down to Dayton for some or all of that weekend of events. Whether buying, browsing, or just watching, the Hamvention is a lot of fun.

The final weekend in May is Memorial Day weekend. And ARMAD will once again be the activity of the day for Saturday May 28th. There will be stations here in town that you can assist or get on the air and contact some of the other stations on the air around the world. If you want to know more, contact Emory, KB9IBW, to find

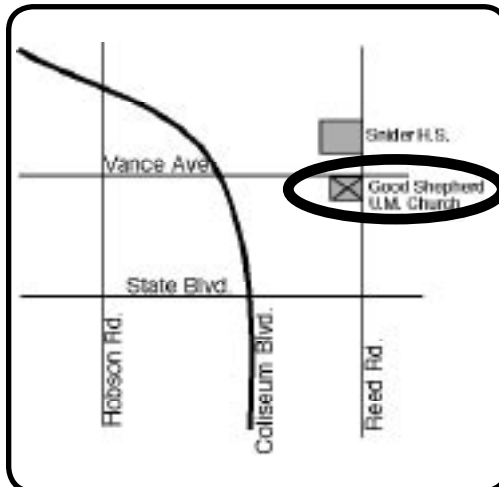
out how you can assist.

Other major events that need to be on your calendar will be Field Day in June and our Chicken Bar-B-Que in August. Field Day weekend will be the last full weekend in June. We will be at the Girl Scout Camp in northern Allen County again this year. Friday June 24th we will again have QRP night. Whether it is homebrew, kit, or commercial, bring your QRP rig out to camp and give it a try. That and the campfire will make it a great night. Saturday morning June 25th will be Field Day setup. We will be on the air for the full 24 hours and tear down will be Sunday afternoon.

Our Fort Wayne Radio Club Chicken Bar-B-Que fundraiser will be Saturday August 27th. We will again be at the Coldwater Crossing Wal-Mart from 10:00 AM until about 2:00 PM or the chicken is all gone. The Chicken is great and the advance tickets are already on sale. Get your tickets now to be assured of enough chicken for your picnic. The cost will be \$5 for a half chicken.

Tom / N9TB

**Spring Banquet:
Fri, May 13, 6:30 PM
Program:
IIT Rocket Launch**



Fort Wayne Radio Club Minutes 15 April 2005

The April 2005 meeting of the Fort Wayne Radio Club was held at the Good Shepherd United Methodist Church with President Tom Baker as the host. There were about 20 persons present.

OLD BUSINESS:

The minutes from the March meeting were read and there were no corrections.

Bob Streeter gave a brief Treasurer's report. As of 15 April 2005 the club had realized an income of \$1,268.73 for the year, and expenses of \$474.88. Total value of all club assets including cash and the estimated value of club physical property was \$12,112.99.

NEW BUSINESS:

Tom Baker announced that reservations for use of the Girl Scout camp for Field Day had been confirmed with Girl Scout management. Carole Burke asked if a Hog Roast was in order again this year for the Field Day repast and the answer was "YES!!" So she agreed to arrange for it.

Al Burke reported that AEP had completed their intermod study for the move of the 146.76 MHz, 146.91 MHz and 444.875 MHz machines from Spy Run to the Robinson Park site and that they were in the process of completing the antenna wind loading study. When they finish the wind loading study we expect to have a planning meeting with them to start working the details of the actual move. It is likely to occur this summer. Tom Baker noted that the move would result in some expenses, most likely for new feedline, perhaps new antennas and mounting hardware, and possibly for a tower climber. As a result the upcoming Nelsons Roasted Chicken sale will be an important fund raising event. Tom reported that the date (Saturday August 27) had been confirmed with Nelsons Chicken, as had the location at the Coldwater Walmart. Advanced sales will be an important aspect of this year's effort.

Tom Baker and Carole Burke noted that this years Spring Banquet would be held on the 2nd Friday in May because the 3rd weekend in May is Dayton weekend. The banquet will be held at the Good Shepherd United Methodist Church as usual, will be a carry-in as usual (don't everyone bring Swedish meatballs),

and will have a 6:30 setup and 6:45 start.

Tom Baker announced that the June meeting would be a Field Day planning session.



Steve Nardin and Phil Hooper noted that the upcoming VHF QSO party would occur the 2nd weekend in June, probably at Larry Temenoff's house. They are planning to use the club trailer and Field Day tower and perhaps also employ the 40' military tower that just came back into the club's inventory.

Tom Baker noted that the Diabetes Walk-a-Thon would occur the Saturday following the Spring Banquet and would be held on the IPFW campus, same as last year. About 8 operators are needed to staff this event.

Carole Burke announced that she and Annie Pliett served as the Fox for the April Foxhunt. They hid the beast in a pile of leaves at the base of a high-tension tower in a park off the River Road near Landon Road. It took about 45 minutes for the first of the rabid pack of hunters to show up and then another 45 minutes for the team of Jim and Kim Macheimer to be first to find it. They were followed by Carl Rittenhouse and then a cast of thousands including a City of Ft. Wayne police officer who had been called to check up on "those strange people" by the local neighbors. But all turned out OK, the weather was gorgeous and the after Foxhunt desserts were yummy.

Tom Baker read excerpts from a letter the Board of Directors and Club Officers sent to Mr. Brian Thornhill, KC9EEC informing Mr. Thornhill that his privileges to use FWRC property (i.e., it's repeaters) were rescinded. The letter cited his violations of several aspects of FCC Part 97 Rules and Regulations that prompted to the Club's decision to rescind his privileges on the Club's repeaters.

The 50-50 club pot was \$12.00 and was split between the club treasury and winner Tom Baker, N9TB. Tom donated his share to the club treasury.

Following the Business meeting, Jim Moehring presented an excellent and informative technical discussion on Near Vertical Incidence Antennas.

Respectfully submitted,
Al Burke, WB9SSE

STATE OF THE ARTS

Allen County Amateur Radio Technical Society

P.O. Box 10342, Fort Wayne, IN

ACARTS Officers

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President's Message



Our annual Spring Banquet was small, but enjoyable. The food at Ryan's was good as it always is, especially when it is shared with good friends. After dinner everyone spent time talking about what is new and old. At the banquet we had a short business meeting to approve the appointment of our new Station Manager. He is Steve Berrier, KB9BGW. He will finish the remainder of the current term for that position. Our previous manager, Doug Jones, N9NNt resigned from that position earlier this year. I would like to once again thank Doug for his years of service to the club as Station Manager and Trustee. Steve will need some time to become familiar with the repeater system that we have. Also remember that this is a hobby, and we volunteer our time to the club. Everyone has other responsibilities and obligations, so be patient if some work needs to be done on the repeater. Please notice that the Station Manager and Trustee positions have been separated. I am now the Trustee. This was done so that we do not have to revise the Station license every time we have a change in who is Station Manager. Once again I would like to welcome Steve to the AC-ARTS Board.

The program for May will be about designing web pages part 2. This was originally planned as our program for March. But, the discussion about the future of the 147.255 machine ran long, and there was no time for the program. The video tape runs about one hour. It is from the early days of the Internet, but still applies today. You can see how far the Internet and web pages have come since then. If anything, come and have a few laughs, as the video is entertaining. Also this month is the Dayton Hamvention, which is supposed to be the largest Hamfest in the world. You have to go to Dayton at least once in your lifetime. They say that if you can't find it at Dayton, then it does not exist. The other big event in May

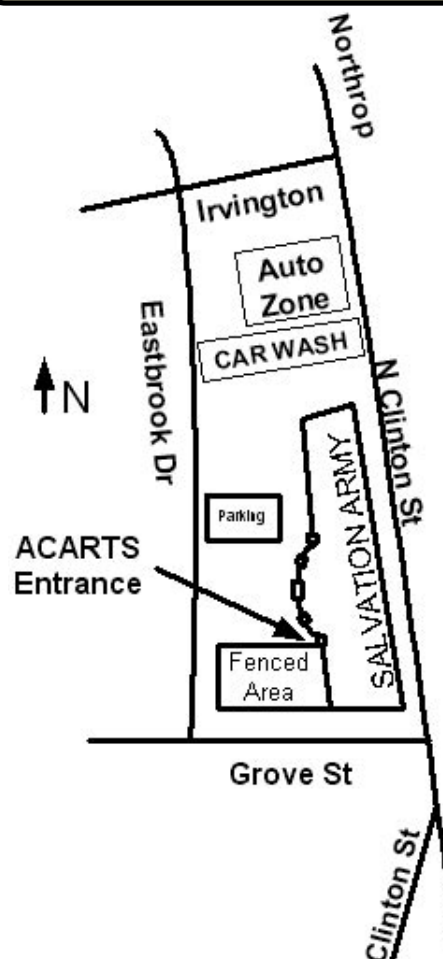
is the ARMAD event. This is being organized by Emery McClendon, KB9IBW. I can use your help for program ideas for our June meeting. The position of Activities Manager is still open. If you interested in the position let me know. That is all I have for this month.

73,
Vic, KA9LTV

Meeting Schedule

May General Meeting: Tue, May. 17,
Program: Web page design

Next Board Meeting: 5/10/05
All members are encouraged to attend.



ACARTS May Program

The program for May will be a video presentation on How to Create a Web Page, Part 2. It is a older instruction on web pages, but is entertaining as well as instructive. You can see how far the internet has progressed since it was made. Come and have a few laughs and learn something at the same time.

73,
Vic, KA9LTV



First 47-GHz Moon-bounce QSOs Announced

From The ARRL Letter – The team of Al Ward, W5LUA, Barry Malowanchuk, VE4MA, Gary Lauterbach, AD6FP, and Sergei Joutiaev, RW3BP, have announced the completion of the first 47-GHz Earth-Moon-Earth (EME) contacts. RW3BP copied the first lunar echoes on 47 GHz in August 2004. That same month, he was heard by AD6FP, W5LUA, VE4MA and VE7CLD. Since the receipt of the first 47-GHz echoes via the moon, numerous tests between RW3BP and AD6FP led to improvements by Joutiaev allowing him to copy calls in January from Lauterbach's lower-power signal. As of April 16, AD6FP, W5LUA and VE4MA have each completed a CW QSO via the moon with RW3BP. "Since Doppler shift can be as much as 100+ kHz at 47 GHz, one must continuously adjust the receive frequency to keep the station centered in the passband," Ward explained. Ward says the operators used various techniques to keep the Doppler-shifted frequency in the receivers' passbands.



April 2005 ACARTS Board Meeting Minutes



April 2005 ACARTS Board Meeting Minutes

The meeting was called to order by Vic, KA9LTV.

Vic announced that the April General Meeting would be the annual Spring Banquet to be held at Ryan's at 7:00 pm on Tuesday, April 19, 2005.

Jim, KB9IH, said that he had talked to Tom, N9TB, from the Fort Wayne Radio Club regarding placing the 146.255 repeater at their Robinson Park site.

Vic, KA9LTV, stated that he has received the club license from the FCC and is now the official trustee of W9INX.

Steve, KB9BGW, agreed to become the new club Station Manager. Doug, N9NNT, made a motion to accept the appointment. Howard, N9ADS, seconded the motion. The appointment will be presented to the membership at the April General Meeting.

Jim, KB9IH, said that one-page Hamfest flyers would be printed for distribution at the Dayton Hamvention.

A motion to adjourn was made by Howard, N9ADS, and seconded by Don, WB8HQS. The meeting was adjourned at 8:45 pm.

Submitted by Dave Lindquist, W9LKH

April 2005 ACARTS General Meeting Minutes

April 2005 ACARTS General Meeting Minutes
The April General Meeting was the annual Spring Banquet held at Ryan's.

The only item of business was the acceptance of the appointment of Steve, KB9BGW, as club Station Manager. The appointment was passed by a vote of the members present.

Submitted by Dave Lindquist, W9LKH



Repeater ABC's - (Part 4 of a series) - Eric Jessen, N8AUC

Reprinted with permission from The Spirit of '76 and '88 - Newsletter of the Lake Erie Amateur Radio Association

How far can I talk using a repeater?

Although FM repeaters have been instrumental in improving the usability of our VHF and UHF bands, they do have some limitations. As we have discussed previously, repeaters are used to improve the range of handheld and mobile stations. But just how far can you reasonably expect to reach using a repeater? And how come you can't talk on our 88 repeater all the way to Toledo?

At VHF and UHF frequencies, there is one factor, and one factor alone that determines how far you can communicate. That factor is antenna height above the surrounding terrain. Transmitter output power does not determine range. Transmitter output power helps to saturate the coverage area, but it does not determine that coverage area, antenna height does. If transmitter power was so important, then why can a little 5 watt transmitter cover half the world? Simple, if it's on a satellite 22,000 miles up! Like I said, it's all about altitude.

Cleveland is a mixed terrain area. To our south and east we have hilly terrain, and to our west and southwest we have very flat terrain. To the north, well, we have Lake Erie. Since not too many walleye or perch have their ham licenses, we don't have to worry too much about the north. But over the horizon to the north are our friends in VE-land, or Canada. Ever wonder why all the really high profile repeaters are out east? Because that is where the hills are! And a hill is a very inexpensive way to get altitude! A tower on top of a hill is even better! If you can get a tower on top of a building, on top of a hill...you've found ham heaven! Most of the U.S. Midwest is very much like the terrain to our west and southwest, so a lot of what you read here will apply over just about all of our nations midsection.

We have 2 repeater sites. The east side site is where the 76 repeater is. That repeater is on top of a building, on top of a hill. Old timers refer to that site as "the hill" for just that reason. It enjoys a significant advantage in height over our west side site. This is why the 76 repeater covers farther than the 88 repeater. The west side site is on top of a very tall (16

stories) office building near Lakewood hospital. The advantage that 88 has is that there isn't anything as high as it is for a very long distance to the west and southwest.

How high is high? Well, when you coordinate a repeater, you have to calculate the HAAT. HAAT stands for "Height Above Average Terrain". Back in the old days, you used to have to use a topographical map. Now, we just use GPS. But basically what you do, is from the antenna site, you measure or lookup the ground elevation at 8 compass points, at distances of 2, 4, 6, 8, 10, and 12 miles distance. Take the mathematical average of all those elevations, and that gives you the elevation of the average terrain. Next you take the altitude of the antenna itself, and subtract out the elevation of the average terrain, and you have it! At the 88 site, the antenna elevation is only 680 feet. But due to the flat terrain on the west side, the height above average terrain is 200 feet. This is why 88 covers so well.

By the way, for all you new folks out there, if you want to really educate yourself about how all this stuff works, there are two books that need to be on your bookshelf, for reference if nothing else. Those are the ARRL Radio Amateurs Handbook, and the ARRL Antenna Book. Those two books will be the best investment you ever made in your new ham radio avocation. Even more important that your rig and antenna. How can I say that? Get a copy of each, read and learn what's in there, and then come back and ask me that same question. Now that you've earned your first license, memorizing questions and answers are over. In case no one has told you yet, you've outgrown that license manual. Now it's time to really learn. And to do that, you're going to need real radio books. They aren't cheap. In fact, they're kind of expensive. Believe me when I tell you, those books ARE the "good stuff", and are worth every penny. Get a copy of each for your very own. You won't be sorry. OK - The commercial is over. Back to your coverage issues.

Great - but how can I tell what my range will be from that, you ask? Well, the height of the repeater antenna is only half of the story. The height of YOUR antenna is the other half. If there is dirt between you and the repeater, you won't be able to get in. Sometimes, that dirt is in the form of a hill that is between you and the repeater (think Euclid Shelf). But over flat terrain, the earth itself becomes that dirt that blocks your

Continued on page 10

Indiana Section News for March 2005

There were SKYWARN training sessions in 35 of the 37 counties served by the Northern Indiana National Weather Service during March. The two remaining counties will be covered by the NWS during April. Hopefully, everyone who wanted to attend one of these free training sessions was able to make one of them. Already, there has been one severe weather net that occurred on March 30, conducted by Central Indiana SKYWARN. Statistically May - July are the months in which the most severe weather occurs in Indiana.

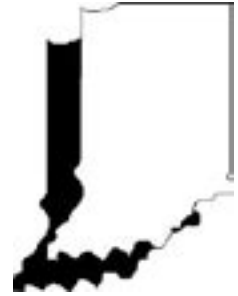
Our monthly Indiana Section ARES net occurs on the 4th Sunday of each month at 1300Z (8:00 a.m. EST), on 3910 KHz. Denny W9XD has been substituting as NCS. Many thanks for your efforts Denny. Please feel free to check-in to this net if you have any interest in Emergency Communications or would really like to have your county represented in this Section Level Emergency Net. Also, please don't forget that we have statewide traffic nets (Voice, CW, and Digital) that meet daily. Your support would be appreciated. These nets handled 172 formal messages during March....

Many of you have completed one or more of the ARRL's Emergency Communications courses. If your curiosity as to how many amateurs in the Indiana Section have completed one or more of these courses, the statistics as of March 2005 are as follows: ARECC Level I (EC-001) -107; ARECC Level II (EC-002) - 41; ARECC Level III (EC-003) - 26 Our SEC, David Pifer N9YNF reports that many amateur radio students have contacted him in the last month, and I expect that the number C-CE graduates will increase substantially in the next month or so.

On March 12, Indiana-Michigan-Ohio SKYWARN, which provides extensive spotter support for the Northern Indiana NWS, held an Advanced Spotter Seminar at the Elkhart Central High School auditorium. Lunch was provided, and speakers from both the local NWS office, and the National Severe Storms Forecast Center provided speakers. This program built on the basic spotter programs offered by the NWS, and gave spotters an additional depth of knowledge on severe thunderstorms and tornadoes. IMO SKYWARN deserves a big Thank You for their efforts to improve the level of spotter expertise for Northern Indiana, Southern Michigan, and Northwest Ohio. The total attendance was 343. The majority of attendees were amateurs. Members of other emergency services were also in attendance (Police, Fire, Emergency Management, and Emergency Medical Services personnel). The Indiana Section ARRL provided door prizes in the form of 2 SAME Weather Receivers.

Please remember that your local 2-meter repeater is the most publically accessible amateur frequency that we amateurs use.</p>

Please put the annual Indiana Section ARRL Convention and Fort Wayne Hamfest on your calendar for 2005. The Convention/Hamfest will be held November 19-20, at the Allen County Coliseum in its usual location. This event has become what appears to be Indiana's largest hamfest. Attendance in 2004 was in excess of 5000 attendees. The ARRL Executive Committee has already approved this Convention/Hamfest for 2005.</p>



I am continuing to search for a new Affiliated Club Coordinator for the Indiana ARRL Section Staff, as our current ACC, Roy Jackson N9RG will be leaving Indiana in the near future. Please write or e-mail me if you are interested. The appointment description is on the League's website. I've had a couple of inquiries, but no real takers yet. Here is an opportunity for some individual to really serve amateur radio clubs in Indiana.

73,

ARRL Indiana Section
Section Manager: James S. Sellers, K9ZBM
k9zbm@arrl.org

Philip Morrison, ex-W8FIS, SK

from *The ARRL Letter* – Philip Morrison, ex-W8FIS, a world-famous physicist who helped develop the atomic bomb and later became an outspoken critic of nuclear war and arms proliferation, died April 22. He was 89. SETI League Inc Executive Director Paul Shuch, N6TX, says he best remembers Morrison as a friend and mentor who co-authored the world's first serious scientific paper on SETI--the search for extraterrestrial intelligence--a 1959 paper "Searching for Interstellar Communications" in the British science journal *Nature*. Shuch called Morrison "a pioneer in the search for extraterrestrial intelligence through radio communication" who also chaired NASA's early study groups on SETI. According to Shuch, Morrison's boyhood interest in Amateur Radio motivated his interest in exploring the feasibility of microwaves for interstellar communication. In addition to being a professor at the Massachusetts Institute of Technology, Morrison was a prolific author of books and articles and well as a TV producer and lecturer. He also authored the jacket blurb for Shuch's ARRL hypertext book *Tune In The Universe!*.





Grant Nearing an End for EM-COMM Courses

Greetings from ARRL HQ.

This note of clarification is going to Section Emergency Coordinators, District Emergency Coordinators, Emergency Coordinators and Section Managers. Please feel free to pass the word along to others.

As you have likely heard in recent months, ARRL is now well into the final year of the grant-sponsored Amateur Radio Emergency Communication Courses. With this grant, the \$45 registration fee paid upon enrollment will be reimbursed after successful completion of the course. At this time, it's only available to ARRL members.

Students need to enroll during the May or the June registration periods to be eligible for reimbursement under the Corporation for National and Community Service (CNCS) grant. That also means that students will need to have completed their course work, and their Mentor/Instructor must upgrade their student status at the ARRL Mentor/Instructor Site to "Passed" by August 31, 2005, to qualify for reimbursement from the CNCS grant.

Registration for the ARRL Amateur Radio Emergency Communications Level I on-line course (EC-001) opens Monday, May 2, 2005, at 12:01 AM EDT. Level II (EC-002) registration opens the same time on the following Monday, May 9. Level III (EC-003) will also open at the same time, but on Monday, May 16. On-line registration (and further information about the courses) is found at <http://www.arrl.org/cce>.

ARRL members will be able to register for the remaining on-line course seats at the ARRL EXPO area of the ARRL National Convention at Dayton. Applications and payment via credit card, check or cash will be accepted there.

Registration by mail is also an option. Make the check or money order out to ARRL, and mail it to 225 Main Street, Newington, CT 06111. Please mark the envelope "ATTN: CCE." In the comment segment of the check or money order, write "CCE EC-00# Registration." # means the course number such as 1, 2, or 3. Include your call sign, current mailing address, preferred e-mail address, age, gender and veteran status, and complete telephone number with your check or money order. Missing information will cause delays in registration, and there is no time left for delays.

For more information, contact Emergency Communications Course Manager Dan Miller, K3UFG, 860-594-0340 or send your query to cce@arrl.org. Thank you.

73,

Steve Ewald, WV1X
ARRL Field Organization/Public Service Team
sewald@arrl.org

IRCC Technical Excellence Nomination Announcement



Do you have a fixer-upper in your group. It's time for all Indiana amateur radio clubs and organizations to consider one of their own as a nominee for the 2005 IRCC Technical Excellence Award.

Each year the Indiana Radio Club Council selects one Hoosier ham to receive this prestigious award during the Indianapolis Hamfest at Camp Sertoma.

To qualify send a one page description of how this person uses their technical abilities to help their club, community or other amateur radio operators. This award is for the unsung heroes that continue to give of their time, talents and technical expertise to make a difference in amateur radio. Please be as detailed as possible when writing the candidates bio.

Deadline for entries is Midnight Friday June 10, 2005. E-mail your entry to: w8ish@arrl.net or jparker@iquest.net Our committee looks forward to hearing from you. The Technical Excellence Award will be presented July 9th at the Indianapolis Hamfest.

Jack Parker W8ISH

IRCC Vice-Chairman



Photo of 2004 Technical Excellence Award

Test Points

28-May-2005

Sponsor: UNSPONSORED
 Time: 2:00 PM (No walk-ins)
 Contact: ROBERT E HIGH
 (419)795-5763
 VEC: ARRL/VEC

Location: VAN WERT COUNTY EMA
 1220 OLD LINCOLN HWY
 HOMELAND SECURITY BUILDING
 VAN WERT, OH 45891

28-May-2005

Sponsor: W5YI-VEC -- WHITLEY COUNTY ARC
 Time: 9:00 AM (Walk-ins allowed)
 Contact: ROGER L MC ENTARFER
 (260)503-9008
 Email: N9QCL@ARRL.NET
 VEC: W5YI VEC
 Location: PEABODY LIBRARY
 1160 E STATE ROAD 205
 COLUMBIA CITY, IN 46725

14-Jul-2005

Sponsor: GOSHEN ARC
 Time: 7:00 PM (Walk-ins allowed)
 Contact: PAUL F COREY
 (574)262-4414
 Email: PAUL.CORY.B@BAYER.COM WORK
 VEC: ARRL/VEC
 Location: GREENCROFT RETIREMENT CENTER
 HOMAN BUILDING
 GREENCROFT BLVD
 GOSHEN, IN 46525

17-Jul-2005

Sponsor: UNSPONSORED
 Time: 2:00 PM (No walk-ins)

Contact: ROBERT E HIGH
 (419)795-5763
 VEC: ARRL/VEC
 Location: VAN WERT COUNTY EMA
 1220 OLD LINCOLN HWY
 HOMELAND SECURITY BUILDING
 VAN WERT, OH 45891



30-Jul-2005

Sponsor: W5YI-VEC -- WHITLEY COUNTY ARC
 Time: 9:00 AM (Walk-ins allowed)
 Contact: ROGER L MC ENTARFER
 (260)503-9008
 Email: N9QCL@ARRL.NET
 VEC: W5YI VEC
 Location: PEABODY LIBRARY
 1160 E STATE ROAD 205
 COLUMBIA CITY, IN 46725

2005 Foxhunt Schedule

May 2 – 6:30 PM
 June 6 – 6:30 PM
 July 11 – 6:30 PM
 Aug 1 – 6:30 PM
 Sept 12 – 6:30 PM
 Oct 3 – 6:30 PM
 Nov 6 – 1:30 PM
 Dec. – none



All foxhunts start at off track betting parking lot, Washington Ctr. & Lima Rds.

Carl, N9NRO

Regional Hamfests

<u>Date</u>	<u>Location</u>	<u>Contact Phone</u>	<u>URL or E-mail</u>
7 May 2005	Cadillac, MI	231-743-6860	http://members.fortunecity.com/wexaukee
20-22 May 2005	Dayton, OH	937-255-3947	http://www.hamvention.org
12 Jun 2005	Wabash, IN		jknetro@kconline.com
12 Jun 2005	DuPage Co. Fairgrounds, IL		http://www.qsl.net/k9ona
19 Jun 2005	Monroe, MI	734-242-9487	http://www.mcrc.org/hamfest.htm
9 Jul 2005	Indianapolis, IN	317-261-6658	http://www.indyhamfest.com/
23 Jul 2005	Cincinnati, OH	513-661-5323	http://www.ohkyin.org

For more complete information go to <http://www.acarts.com/hamfests.htm> or <http://www.arrl.org/hamfests.html#listing>



For Sale & Wanted

For Sale:

- Pacific Digital 52x24x52 CD burner, IDE internal, Nero software, like new, in box, \$30 OBO,
- VHF amp, 100 W, mfg. by TPL, \$70. Contact: Vic Guess, WB9UZA, wb9uza at arrl.net, 260-485-7472.

* * *

Wanted to buy - HT power supply - max 6 watts out.

If you have one for sale, please contact: Bob Medows, W9BHT at: shredsurgeon at insightbb.com

* * *

Wanted:

- Old Magnavox radios, 30's through 80's, table and or portables models only please.
- Heathkit Power supply. These power supply were used with the old Heathkits HW12 and or HW101. I would like Heathkits only no home brews.

KB9OS, Larry Temenoff TEMENOFF(at)ipfw.edu, 260-490-3089



ARMAD News

Fort Wayne ARMAD will need assistance at the Memorial Stadium, and we will also operate from the Kruse WWII Museum this year. The Kruse location will only need about 4 operators, as it will be IRLP only unless there is an interest for HF by the volunteers.

Please contact N9KNJ / Ron Kaufman, N9HRA / Richard Andrews or Emery McClendon / KB9IBW if you want to sign up to work this years event. Also you may contact N9NAI / Bill Meints on 145.700 or on the 145.330 Repeater.

Contact information for the ARMAD officers listed above can be found at www.freewebs.com/kb9ibw.

LET'S HAM IT UP FOR THE TROOPS!

Emery / KB9IBW

Repeater Basics, cont. from pg. 6

signal from reaching the repeater. How far away does the curvature of the earth block you? That distance is called your "radio horizon". It is slightly farther than the visual horizon, due to the refractive nature of the atmosphere. According to the ARRL Antenna Book, the distance to the radio horizon from an antenna is given by the formula $d(\text{miles}) = 1.415 \cdot \sqrt{h(\text{feet})}$.

If your antenna is 10 feet above ground, the distance to your radio horizon is 4.47 miles assuming flat terrain. If your antenna height is 90 feet, then the distance to your radio horizon is 13.4 miles, again over flat terrain. If your antenna height is 200 feet then the distance to your radio horizon is 20 miles, again over flat terrain. Your exact range will differ, depending on how high your antenna is, and where you happen to be. But a good rule of thumb is that you should be able to get into the repeater reliably from about 20-25 miles away if you are in a car over flat terrain. From a fixed station with an antenna at 30-40 feet, you should be able to get into the repeater reliably from 35-40 miles away, over flat terrain. So, how come you can't talk all the way to Toledo? Probably because Toledo is about 100 miles away, and there is dirt between Toledo and our repeaters which blocks your path. Simply, Toledo is beyond the radio horizon from our repeater sites.

There are certain weather features that can extend your range. Not like on the HF bands where the ionosphere will literally bounce your signals back to earth thousands of miles away. Oh no, we are much too high in frequency for that to happen. But a passing cold front can cause tropospheric ducting, which can carry your signals hundreds of miles away. A temperature inversion over Lake Erie, which is quite common in the spring and fall months, can let you talk to Detroit or even Canada with just an HT. Those kinds of phenomena can offer some very exciting DX. You'll know when that is happening because you will begin to hear repeaters with strange sounding identifiers, and call signs you may have never heard before. But those kinds of event are the exception, rather than the rule.

Now that you know how far you can communicate using a repeater, next month we'll go into how far away you SHOULD communicate using a repeater.

Until then, see YOU on the air!

Membership Application for FWRC - and/or - ACARTS

Name: _____ Call sign: _____ License class: _____

Street address: _____ City: _____

State: _____ ZIP : _____-4_____ Phone #: (_____) _____-_____ Unlisted? Yes

Email address: _____ ARRL Member? Yes

(ARRL membership helps your club maintain affiliation.)

May we list your name, call & email address in our membership roster and on our club web site? Yes No

Both clubs now offer this newsletter as a downloadable (Adobe Acrobat) PDF file, in lieu of a paper copy sent through the mail. For FWRC a mailed paper newsletter is a \$6.00/yr. premium.

How would you like your newsletter delivered? by snail mail download from web site.

Fort Wayne Radio Club Dues

- Regular membership \$15.00 / year
- Family membership ¹ \$21.00 / year
- Student membership ² \$6.00 / year
- Associate membership ³ \$15.00 / year
- Mailed newsletter \$6.00 / year

(Memberships for Jul - Dec are 1/2 the stated amounts.)

A.C.A.R.T.S. Dues

- Regular membership \$12.00 / year
- Additional family members ¹ \$6.00 / year
- Student membership ² \$6.00 / year
- Associate membership ³ \$6.00 / year

(New Regular memberships are \$1/month)

1. Please list all names and calls on an attached sheet.
2. K-12 or full time student

3. unlicensed member
4. 9 digit ZIP code required for US bulk mail

Please attach a check (number _____) for the appropriate amount and bring to a club meeting or mail to:

Fort Wayne Radio Club
PO Box 15127
Fort Wayne, IN 46885

A.C.A.R.T.S.
PO Box 10342
Fort Wayne, IN 46851

For dual membership, fill out both sides and send 2 checks to either club. **Payment by check is strongly encouraged!**

ACARTS Voice Repeaters

- 146.880 (-) General use / Skywarn priority
- 147.255 (+) General use / Autopatch priority*
- 443.800 (+) General use

(All repeaters have autopatch, but 88 has only speed dial emergency #'s.)

ACARTS Digital Repeaters (digipeaters)

- 144.390 (s) APRS - wide

Fort Wayne Radio Club Repeaters

- Voice: 146.76 (-) General use
- 146.94 (-) General use with autopatch
- 146.91 (-) Autopatch only
- 444.875 (+) General use
- ATV: 439.25 In, 910.250 Out, 144.340 Audio & control

Area Traffic Nets

(please submit any changes or corrections to the editor)

- IMO:** meets nightly at 6:30 p.m. (2330 UTC) on 146.88
- Auburn:** meets Mon., Tue., Wed., Thur., Fri., & Sat. at 6 p.m. (2300 UTC) on 147.36(+)

- 21 Repeater Group:** meets each Wednesday at 9 p.m. (0200 UTC) on 147.150

Help and Swap Net: Mondays @ 8:30 p.m. 146.94(-)

Miscellaneous Nets

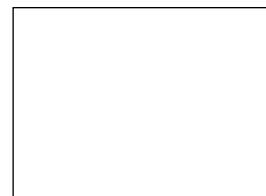
Huntington ARES: Saturday at 8:00 p.m. (0100 UTC) on 146.685

Whitley Co. / ARES: Wednesdays at 7:15 p.m. (0015 UTC) on 145.270 (Note 131.8 PL disabled for all nets)

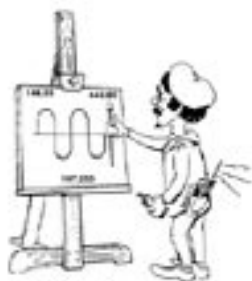
Whitley Co. Sunday: Sundays at 7:45 p.m. (0045 UTC) on 444.550 +. (The 146.460 simplex crossbanding from both nets has been dropped.)

160 Meter "No-Name" Net: Sunday and Wednesday nights at 8:00 PM Indiana time (0100 UTC). On 1966 kHz. Everyone welcome!

Allen County HamNews
 PO BOX 10342
 FORT WAYNE, IN 46851



TO:



WGIX/R



Activities Calendar



Date	Time	Event	Place
5/7/05		Indiana QSO Party	
5/10/05	7:30 PM	ACARTS Board Meeting	Salvation Army Center
5/13/05	6:30 PM	FWRC Spring Banquet	GSUMC
5/17/05	7:30 PM	ACARTS General Meeting	Salvation Army Center
5/20-22/05		Dayton Hamfest	Dayton, OH
6/3/05		deadline for June ACHN items	
6/6/05	6:30 PM	Foxhunt off track betting parking lot,	Washington Ctr. & Lima Rds.
6/7/05	7:00 PM	FWRC Board Meeting	GSUMC
6/14/05	7:30 PM	ACARTS Board Meeting	Salvation Army Center
6/17/05	7:00 PM	FWRC Meeting	GSUMC
6/21/05	7:30 PM	ACARTS General Meeting	Salvation Army Center
6/25-26/05		FWRC Field Day	McMillen Girl Scout Camp
7/1/05		deadline for July ACHN items	
7/5/05	7:00 PM	FWRC Board Meeting	GSUMC
7/11/05	6:30 PM	Foxhunt off track betting parking lot,	Washington Ctr. & Lima Rds.
7/12/05	7:30 PM	ACARTS Board Meeting	Salvation Army Center
7/15/05	7:00 PM	FWRC Meeting	GSUMC