



the RARA RAG

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ROCHESTER AMATEUR RADIO ASSOCIATION, INC.

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December 1997

NO. 4

December Program - Harmonics in Industry

by Rick Wells, W2RW

Each December we have a slight change of pace. The regular RARA meeting is held in conjunction with the Kodak Equipment Division ARC, WA2EGL, at their facility on Elmgrove Road. The Kodak group is furnishing not only their fine facility, but the guest speaker and refreshments as well. Thanks to all the "EGL" members for their gracious hospitality and especially Charlie Escriva, KB2SOZ, for setting up the evening.

The presentation, *Harmonics in Industry*, will cover the effects of non-linear loads and other electrical disturbances on the Power Distribution System. Problems and recommended solutions will be discussed. The speaker will be Sam Mitra who is an Electrical Engineer with the Eastman Kodak Company.

The meeting location is easy to find. Take Elmgrove Road to the large Kodak plant facility on the West side of Elmgrove. If you're coming off the Rt. 531 expressway, turn left and take Elmgrove southbound. The meeting will be held in Bldg. 1, training Rooms 4 & 5. Bldg. 1 is located immediately behind the flag pole off Elmgrove Road. Parking is in the lot to the South of that Building. Elmgrove club members should be outside to give directions. Turn left just before the traffic circle/flagpole and parking will be on the right. Entrance will be the 1S1 door, which is manned by security staff. There should be people placed along the way to steer everyone in the right direction.

Should anyone have questions or need assistance, there will be talk-in on VHF 146.88 K2RRA/R and UHF 444.750 WA2EGL/R (110.9 pl). Hope to see everyone there and have a happy holiday season.

RaRa Hotline
(716) 442-0587
24 hours a day

RaRa MEETING

December 5, 1997

8:00 P.M.

Kodak Elmgrove
Elmgrove Road

See map on back page

Harmonics in Industry

FROM YOU'RE LICENSE CLASS COORDINATOR

Well, turkey time is coming. Soon it will be Christmas. Maybe Santa will be bringing many goodies for those avid hams.. Only 4 weeks till testing time. The novices know everything but the numbers. The count remains the same as far as the number of students that are enrolled. Yours truly is still looking for a theory instructor to teach general theory. If interested they can call me at 865-2585. Happy hamming and Thanksgiving.

Lynn Rosenberg N2IZX

SILENT KEYS

Ernest C. Brown
K2BWK
October 26, 1997

Herbert Haddleton
WA2MST
October 31, 1997

Robert Shevlin
KA2EFF
November 4, 1997

Bruce L. Kelley
W2ICE
November 6, 1997
Past President & Life Member

the **RARA RAG**

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RaRa Hotline 442-0587

Website: www.ggw.org/rara/

Editor.....Neal Eckhardt, WB2EKP

80 Authors Avenue, Henrietta, NY 14467 (716) 359-2672

Internet:eckhardt@frontiernet.net

Managing Editor.....Dick Goslee, K2VCZ

24 Elaine Drive, Rochester, NY 14623 (716) 334-1762

Internet:goslee@frontiernet.net

Advertising Editor.....Dick Goslee, K2VCZ

24 Elaine Drive, Rochester, NY 14623 (716) 334-1762

Internet:goslee@frontiernet.net

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OFFICERS.

President: George Lloyd, N2UIO.....637-9499

Internet: n2uio@frontiernet.net

Vice-President: Rick Wells, W2RW..... 621-7583

Internet: wells@mail.dec.com

Secretary: Robert Gordon, KB2ZGN..... 218-0265

Internet: KB2ZGN@frontiernet.net

Treasurer: Richard Goslee, K2VCZ.....334-1762

Internet: goslee@frontiernet.net

BOARD OF DIRECTORS:

Lloyd Caves, WB2EFU.....671-7079

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Internet: 75767,3151@compuserve.com

Keith Freeberg, N2BEL.....458-8246

Internet: kff@usa.net

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Bruce Kelley W2ICE - SK

Bruce Kelley, W2ICE, Ex- 8ACY, co-founder of the *Antique Wireless Association*, founder and Curator of the AWA's *Electronic Communications Museum* in Spencerport and now Bloomfield, New York, co-founder and past Chairman of the *Rochester DX Association*, past President and long time Historian for the *Rochester Amateur Radio Association*, past Chairman of the *Western New York Hamfest and ARRL Convention*, a Fellow and life member in the *Radio Club of America*, a member of the *Society of Wireless Pioneers*, a member of the *Quarter Century Wireless Association* and a Life Member and Official Phone station for the *American Radio Relay League*, became a silent key on November 6, 1997.

Bruce started to collect vintage radio tubes and early radio equipment in the 1930's. These items started to fill his barn located near Spencerport, NY, and he started showing people around. His booming voice, quick laugh and wonderfully told stories associated with each historical item entertained all who came to listen. He never stopped telling those stories and people never stopped listening and admiring them.... right up to just days before his passing.

So what made Bruce Kelley and the AWA so successful? There were more than a few people acquiring and collecting old radio sets out there. The difference is that Bruce was a true historian first and collector second. Armed with his trusty 35mm camera, he and life long friend and AWA co-founder Linc Cundall, W2QY, sought to capture on film many of the still available historical radio sites and equipment. Bruce, an Engineer with Eastman Kodak for 40 years, utilized the facilities of the Kodak Camera Club to produce many slide presentations on the history of early radio which soon became immensely popular. This activity led Bruce, Linc and another early Rochester Radio Amateur pioneer, George Batterson, W2GB, to form the AWA in 1952. Bruce moved to Bloomfield, NY, in 1958, and the property happened to have a barn, the new Home of the AWA.

Besides his love and never ending enthusiasm for early radio, Bruce Kelley was also a devoted DX'er. He especially liked 75 and 20 meter phone where a converted broadcast transmitter using an Eimac 1500T tended to warm the shack and send lots of current into his favorite antenna, the reversible rhombic. It seemed as though Bruce could never do anything half way or leave anything disorganized. So in 1947 he co-founded the still active *Rochester DX Association* where he was a past president and monthly editor of the RDXA

column then published in the *RaRa Rag*. He was a successful DX'er and achieved one of the few and hard to obtain pre-war DXCC certificates.

Bruce never stopped writing. I have no idea how many typewriters he wore out, and of course a computer was out of the question. He wrote everywhere and was published time and time again in ham magazines, club journals, newspapers, and etc. Of all those, however, his real love was the AWA's official organ, the *Old Timers Bulletin*. As it's founder and first Editor, Bruce strove for and maintained the highest level of integrity in what was found between the pages. The OTB became known for high quality, well researched and well written articles covering all major elements of vintage communications. It became a status symbol to have an article published. The OTB was a major significant factor in the success of the AWA. It was that publication which distinguished and identified the AWA as a true historical organization and not just a group of collectors.

Another area of contribution was the many years that Bruce devoted to the various radio conventions held in Rochester. From the old Manger hotel, to Doud Post and then to the Fair Grounds, Bruce's ability to get people involved was amazing to watch. He knew everybody who was anybody in radio, and they knew Bruce. "Hey", he would start in that *20 dB over* Irish voice of his "come on down and give a talk." And they would.

In the middle of all this Bruce raised a wonderful family, five children, all today successful in their own careers and families. His devoted wife, Helen, a very gracious lady, somehow managed to cope with all of this frantic activity.

Bruce loved the Museum work sessions. He assembled a close crew of museum guides and the so called Annex workers who, not unlike Holdsworth Coolies, willingly give their time. He remained the most sought after museum guide and never disappointed anyone. He greeted all new people the same way..."Hey, what's your name....did you work for KODAK ?"

Bruce Kelley, tireless, devoted, successful, loved, admired and leaving a legacy. Could anyone want more? So now Bruce, Linc and George are together again. Do you suppose they have found a barn yet?

*Ed Gable k2mp/w2an
Curator, AWA Museum*

November Calendar

7 - RaRa Meeting - 8:00PM - Henrietta Fire Hall,
3129 East Henrietta Road - Annual Auction
16- RDXA Meeting - 111 Westfall Road.

FCC ANNOUNCES ELECTRONIC RENEWAL FORM 900

The FCC's Wireless Telecommunications Bureau (WTB) has consolidated eight renewal forms into one form. Form 900, Application for Electronic Renewal of Wireless Radio Services Authorizations, is an interim measure to permit all WTB licensees, including hams, to renew their licenses electronically.

This form is only for renewals, not for license modifications. You can only enter changes (eg, name, address) using Form 900 as a part of the process of renewing your license. You can only use Form 900 if the expiration date on your license falls within the renewal window (within 120 days of expiration). You cannot use Form 900 to renew an expired license. Form 900 may only be submitted electronically. No Form 900 paper applications will be accepted. When filing Form 900, you will be required to enter a Social Security Number for a taxpayer ID number.

Access Form 900 on the WTB Electronic Commerce [page](http://www.fcc.gov/wtb/electcom.html), <http://www.fcc.gov/wtb/electcom.html> (click on Production Page for Electronic Commerce Applications to access the Form 900). Click on any item number for filing instructions. Once you have filed the form, clicking on Electronic Renewal Query lets you view or print the information submitted.

Once you have successfully submitted Form 900, it is important to click on the Continue button to obtain the fee information pertaining to your filing. The screen will prompt you with a Fee Remittance Advice, Form 159. The form will indicate that there is no charge to renew an Amateur Radio license (except for vanity call sign holders, who won't have to renew for several more years yet).

Form 900 updates will be batch processed at night. They are not instantaneous.

Send comments about the FCC Form 900 to sreed@fcc.gov. For technical assistance, call the FCC Technical Support Group at 202-414-1250. Other general information may be obtained from the FCC's National Call Center at 888-225-5322 (CALL-FCC).—FCC *Tnx ARRL LETTER*

*Happy Holidays
From RaRa*

NEW CONTESTERS

Where do new contesters come from? Do they magically appear out of nowhere; formed from mysterious elements floating in the ether? Are they poor lost souls wandering about looking for a purpose in life? I don't think so. Some fall into it because of a competitive nature, some try by mistake and end up loving it. But many others are too shy to try and give rise to the famous line "I'm not a BIG contester". This can be changed with a little effort.

In a short time the means to develop more contester will arise and at the same time a practice session for Technician Plus and Novice license holders will occur. What is this strange event? The ARRL 10 Meter contest.

What's the big deal about the 10 Meter test?

1. It is CW and SSB at the same time.
2. It allows points and multipliers for stateside QSOs.
3. It is a low pressure contest compared to CQWW.
4. Most significantly it gives the Novice and Tech+ the advantage of having people LOOK FOR THEM because CW Qs with them count DOUBLE points.
5. It has a Slow Speed CW segment at 28.090 to 28.130

These features make the ARRL 10 Meter contest very attractive to new contesters. They can work any station they hear; there are no exclusions. They get to practice CW at any speed they feel comfortable at and if they call CQ Contest other stations will be looking for them. And if they get tired of the whole thing they can work stations on SSB and still

If you are a Novice or Tech+ this is the place for you to try some contesting. Contesting is a great way for new DXers to work new countries. 10 Meters has been showing signs of life again with openings into Europe and South Africa occasionally. Openings to South and Central America and the Caribbean occur almost daily, giving you a chance to work many countries. As a teaser I will tell you that the weekend of October 25-26 during the CQ World Wide DX Contest I worked 40 different countries on 10 meters.

You can join in the fun of working DX during a contest, just be there. You may be amazed at what you can work. The contest starts at 0000 Zulu Saturday December 13 (that's 7:00 PM local time Friday). It ends at 2400 Zulu

Sunday (7:00 PM local time Sunday evening). You can operate for 36 of the 48 hours and that's a

LOT of operating time for a casual effort. If you don't have lots of time to devote all you have to do is turn on the rig, check the band for activity and work what you can in the time you have. You get 2 points for every Phone contact, 4 points for every CW contact and 8 points for a CW QSO with a station signing /N or /T (for Novice or Technician). You can work a station once on CW and once on SSB.

Complete rules are on page 108 of the November issue of QST. Logs may be obtained by E-Mail from the ARRL or from their web page.

E-Mail to: info@arrl.org

No subject

HELP

SEND 10M.FRM

SEND 10M.RLS

QUIT

ARRL Web Page:
<http://www.arrl.org/contests/forms>

ARRL BBS: 860-594-0306, in File Area 2 (contests)

If you have problems I can be reached via E-Mail at: k2fr@juno.com or on the 146.79 repeater during week days. Try it, you'll like it and turn in a log if possible!

Fred Gern, K2FR

Next Rag Deadline

December 13, 1997

M. ORNSTEIN	
WB2YYB	
CONTRACTING	
(716) 334-3258	
Roofing	
Gutter Cleaning	
Residential & Commercial	Free Estimates
Attic Ventilation	Seamless Gutters

A Call to Arms

As the falltime slips quietly into early winter, we find ourselves spending less time thinking about how to get the grass mowed, and more time wondering why we didn't put more work into our antennas. Every year, it seems to be the same thing; and yet (if you're like most of us), we fail to learn, this year being no exception.

Maybe this is the year to make things different, and help RaRa along the way. How is that possible? Easy. Every year, there is a local competition that seems to pass us by. Every year, it seems, everyone gets hyped up to get on-the-air to "give out some points", and we get left behind. This year, let's make it different. This is the year that we in the Rochester Amateur Radio Association are going to compete for what the Rochester VHF Group calls "The Rochester Cup", but we can't do it without you.

A little history first. Every year, since it's inception, the Rochester VHF Group mounts an attack on the VHF bands, in competition against other VHF oriented clubs around North America. They have won several times. Rochester, being the tight-knit ham community that it is, has always rallied to help them out. We get on the air and "give out points". It's a weekend of incredible fun and frenzy. We put our radios on the FM simplex channels, and join in the fray. The VHF Groupers appreciate what we do to help them, but felt as if they wanted to do a little more, so they instituted The Rochester Cup.

The Rochester Cup is an award that is given away to the Rochester-area club that makes the most contacts with VHF Group members. The rules are simple. You keep track of the contacts that you made, compare your log against a list of members of the VHF Group (we'll circulate the list in an upcoming newsletter). The first time you contact a Grouper, you get 1-point. Everyone then submits their "worked list" to the VHF Group, citing RaRa as the benefactor. The club that submits the most points is awarded The Rochester Cup at The Groupers awards banquet in April, and our club name is engraved on an accompanying plaque!

In years past, we got the word fairly late in the game. This year, it's different. We know the rules, and now it's time to prepare for the event. The January VHF Sweepstakes takes place on the "bye" weekend between footballs' AFC/NFC championship and the Superbowl. Don't wait until then to get the antenna in the air. Prepare now to make as much noise on as many bands as you can put on the air.

Some VHF Groupers will only be on 432/440-MHz. Some will only be on 2-meters. If you have radios for multiple bands, do everything you can to put up antennas for all of them. If you plan now, you will maximize our potential for success. Stay tuned. Next month, we'll talk about how to plan your operation to get the most bang for the buck.

RaRa Rag 20 Years Ago

Ed Gable K2MP

December 1977: The newly installed "Fuzz Buzz" was alive and working, according to Section Emergency Coordinator Jim Collinsworth, N2JC. This device connected the WR2AEI (28/88) repeater directly to a console at the Monroe County Public Service Radio Center on Cobbs Hill. Similar to today's 911 system it allowed Radio Amateurs to report accidents and other problems directly to a Dispatcher. The K2JD club station at the County's IOLA complex is coming along where newly completed antenna projects, a TH5 Yagi and Dipoles, makes the Club's new Heath SB-104A work very well. Membership Chairman Bob Erskin, W2NVZ, is requesting your \$6.00 dues. A local Radio Amateur Net listing reveals 7 active nets; four on six meter AM, two on 2 meter FM and one on 2 meter SSB. *JR's* Amateur outlet store at 3327 Lake Avenue remains an active advertiser. *JR's* was right next to another advertiser, *Metro-Comm* of 37 Stonewood Avenue.

The Prez Says

George F. Lloyd, N2UIO

Well, I understand that our latest auction was a major success. Unfortunately, I was not able to attend due to illness. I can only hope that next years auction will be just as good. I heard there was many great items for sale. I am sure that all who attended had a great time. I am disappointed that I wasn't able to make it. Perhaps next year. Our next general meeting will be at Kodak-Elmgrove. See Rick Wells' article for all the details as how to find it. I am sure that it will be interesting and one not to miss. At this time I want to acknowledge the passing of Bruce Kelly W2ICE. As a good friend of the club, Bruce will be sorely missed. "Old Timers Night" will never be the same without him. Ed Gable K2MP will pick up where Bruce left off. I hope you will all join me in supporting Ed as the days wear on. That's about all I have to report this month. There will be more new developments to report on next month. Due to the fact I have been down with the flu for a couple of weeks, this is my only excuse why I haven't had more to report to you at this time. It's hard to keep up on things when you're not feeling well. See you at the December meeting at Kodak.

AT&T FUNDS KENTUCKY HAM RADIO REPEATERS

There was a silver lining to the clouds that brought heavy flooding to Northern Kentucky earlier this year. Ham radio's role in providing emergency communication in the flooding's wake has resulted in a windfall for that region's hams--courtesy of AT&T. Seventh District Emergency Coordinator John Meyers, N4GNL, of Covington, Kentucky, says AT&T has agreed to spend some \$100,000 to set up a VHF repeater, a UHF repeater, antennas, and a shack with air conditioning and heat at one of its cellular telephone sites. Other sites will be equipped as receive-only sites and tied back to the repeater. As part of the deal, the Northern Kentucky Amateur Radio Club agreed to cover the electricity and phone bills. Meyers says he's already gotten four Northern Kentucky counties (Campbell, Boon, Kenton and Pendleton) plus the City of Falmouth to pitch in for the utilities at the sites.

Meyers says ham radio was the only means of communication for the first four days of the floods. Many of the club's members remained on duty to help out during the flood recovery. Hams' efforts during the flooding attracted the attention and respect of local governmental officials and of AT&T, which saw the possibility of a mutually beneficial arrangement. AT&T had been hoping to gain access to several possible cellular telephone antenna sites that had been off-limits. With the ham equipment on board, however, the cellular sites gained emergency communication status--just what was needed to get the moratorium lifted on their use by AT&T. "The marriage came together really good," Meyers said this week. "AT&T needed some sites, and hams needed the coverage."

In addition to the Kentucky repeater, AT&T also plans to set up a similar emergency system for hams in Southwestern Ohio, which also suffered from this year's flooding. Meyers says AT&T's total commitment is in the area of \$300,000. When it's all in place, Meyers says, a huge region in Northern Kentucky, Southwestern Ohio and Southern Indiana will be accessible using a 2 W hand-held transceiver.

If all goes as planned, Meyers hopes to throw the switch on the first new repeater site in Edgewood, Kentucky, by year's end. Great Lakes Director George Race, WB8BGY, has been invited to take part.

Tnx ARRL Letter

Amateur Radio calendars available from ARRL!

CQ Amateur Radio Calendar: 15 Month 1998/99 calendar, with beautiful color photos of stations, antennas, and well-known amateur radio personalities. Calendar detail includes notable contests, phases of the moon (and perigees/apogees), meteor showers, and holidays. ARRL Order #6516 \$9.95, plus \$3 shipping (UPS).
CQ Radio Classics Calendar: The rigs of yesteryear are remembered on the pages of this 15 Month 1998/99 calendar. Beautifully photographed vintage ham equipment introduces each new month. Calendar detail includes notable contests, phases of the moon (and perigees/apogees), meteor showers, and holidays. ARRL Order #6532 \$9.95, plus \$3 shipping (UPS). These calendars and other new products can be quickly ordered via ARRL's New Products Web page, <http://www.arrl.org/catalog/new.html> or call toll-free 888-277-5289, Monday through Friday from 8 AM to 9 PM Eastern time.

Tnx ARRL Letter

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FCC INITIATES UNIVERSAL LICENSING SYSTEM

As a first step in implementing its new Universal Licensing System (ULS), the FCC's Wireless Telecommunications Bureau is attempting to "populate" the ULS by getting licensees to register. Ultimately, the ULS will give hams and other licensees on-line access to make license updates and renewals, eliminating the need for hardcopy forms like the venerable Form 610. An FCC Public Notice this week said the ULS is aimed at combining the 11 different licensing systems the Bureau now uses—including Amateur Radio—into a single system.

ULS registration requires supplying a Taxpayer Identification Number (for individuals, this is typically your Social Security Number) and "associated call signs." These could include your individual call sign plus any club station call signs for which you are the trustee.

The Public Notice said that in conjunction with the ULS, the FCC "must collect TIN information to correlate its licensees with any outstanding Federal debt that they might have incurred in other dealings with the Federal Government." All vanity call sign applicants must now supply a TIN as part of Form 159.

On-line registration via the Internet is available. In addition to providing basic name and address information, registration requires you to establish a password that you must use along with your TIN to re-enter the system to make future changes. The ULS also lets you check the status of a pending application. A spokesperson in the FCC's Technical Support Group said the FCC will verify all data supplied at the time of registration to ensure that it is valid before the data are entered into the FCC licensee database.

Using the TIN and the associated call sign(s), the ULS assigns a unique sequential number to each licensee. The WTB says that once it has registration information and has implemented the ULS, it will streamline and simplify the FCC's ability to handle future administrative changes (name and address changes, for example).

Licensees are invited to register electronically at <http://www.fcc.gov/wtb/uls>. Select ULS Registration. Licensees without access to the Internet may file a TIN registration form, FCC Form 60, from the FCC's fax-on-demand service at 202-418-0177 or by calling the FCC Forms Distribution Center, 800-418-3676.—FCC

Tnx ARRL Letter

FCC LEVIES FINES FOR UNLICENSED OPERATIONS

The FCC has fined Robert J. Powers, KB7TQA, of Puyallup, Washington, \$1600 for operating on an unlicensed frequency. The action by the Compliance and Information Bureau was adopted by the Commission August 19. The fine stemmed from a violation that occurred a few months before Powers got his Technician ticket in April of 1993.

According to the FCC order, FCC agents from the Seattle Field Office discovered Powers on January 26, 1993, operating a radio station on 27.455 MHz "without authorization from the Commission." He was cited for violating Section 301 of the Communications Act. Agents used direction-finding equipment to trace the signal to Powers residence, and the FCC reports that Powers admitted to operating on the unlicensed frequency. Powers initially was fined \$2000. The FCC subsequently reduced the forfeiture to \$1600. Powers was ordered to pay the fine by September 22, 1997.

The FCC also cited Victor Pessaro of Melbourne, Florida, for CB radio service violations that occurred in early 1994. Following up on interference complaints, FCC agents tracked down Pessaro as he was operating on frequencies other than those authorized by FCC rules. In addition, Pessaro refused the FCC agents request to inspect his station. Consequently, the Vero Beach Field Office issued a Notice of Apparent Liability to Pessaro for \$5750 for operating over the regulated power limits in the CB radio service and for failing to allow an inspection. The forfeiture was later reduced to \$750, and the FCC upheld the fine in an order released August 22. Pessaro has until September 22, 1997, to pay his fine.—FCC

Tnx ARRL Letter

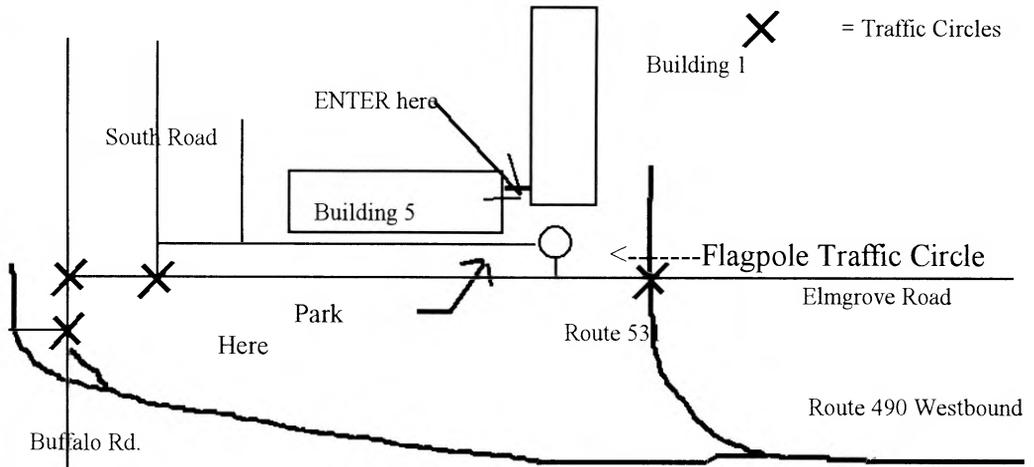
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