

# Holmesburg

# Amateur Radio Club

# Newsletter



## 146.685 MHZ

The Prez Sez

I'd like to thank you for coming out on March 14<sup>th</sup> and staying through the long meeting that we had. For those of you who did not turn out this is a summary of what went on. The tech committee had presented their proposal and budget for 1982. That proposal will be voted on at the April 4<sup>th</sup> meeting. Your attendance is requested for that ~~wete~~ meeting. The budget is roughly 2000.00 and may be a little more. Now is the time to let us know how you feel. The N.E. Input is about three weeks from being on the air. Reasons for the delay were brought out at the meeting in detail. A check for 100.00 was presented to HARC from the Chaverium of Delaware Valley (WB2DXB-Sonny Gutin) President. Many Thanks. A plaque was presented to WA3AOP for his persistent effort to get Holmesburg to where it is today from the beginning back in 1977. A job well done Rich. Also on Sunday the tech comm changed the auto patch code and wired in the voting system down at the main repeater site. Thanks guys. A move was made to with draw HARC offer to provide communications for the TALL SHIPS event in June. If we want to do anything it will have to be under new business for a future meeting. Our meeting place will continue to be the Landmark Inn at the intersection of Rt. 73 & Rt. 38 in Maple Shade, N.J. William Penn Operation is scheduled for Oct. 24, 1982. Details will be fourth coming in upcoming Newsletters. Input to the Newsletter has been light and this subject was brought up at the meeting. This Newsletter is the first that will have additional input from the membership. The end result is much better and thanks to K3HIN, WB3EEI, AI3K, K3RLE, N2BVA, K3RBO, and any one else who I may have missed in getting this issue together. It is alot better and I hope it continues for the months to come. I'd like to thank the fellows from the University of Penna. radio club for coming out to the meeting. They were WB3FSO, Steve. WB2CRM, Max. KA3IJP, Howard. It was a pleasure to meet the three of you. Jay WA3IFY will no doubt be home by the time this is in your hands. Welcome HOME. If you were not at the recent meeting to receive your new membership card and directory it will be arriving soon by U.S. Mail. If you haven't received it that only means one thing, your dues wasn't paid. Please check into the Wednesday Net for up to date information as to what is happening within the organization. I hope to see you at the next meeting on APRIL 4<sup>th</sup> at the Landmark Inn in Maple Shade, N.J. All members are urged to attend this meeting. Many thanks.

Tony Musero K3UKW  
President, HARC



# Holmesburg Amateur Radio Club

P.O. Box 6253 - Philadelphia, Pennsylvania 19136 - 215-271-8898

"Serving the Community Through Ham Radio"

Holmesburg Amateur Radio Club is composed of the people who utilize the 146.685 repeater located at the University of Pennsylvania College at 39th and Locust, Walnut, Streets in West Philadelphia. The repeater is open to any amateur who wishes to use it and participate in any of the club activities.

Meetings: Business meetings are held the first Sunday of each month at the Landmark Inn at the intersection of Route 73 and Rt. 38 in Maple Shade, N.J. (Please note: If a local hamfest or event is scheduled for the first Sunday the H.A.R.C. Business meeting will automatically be re-scheduled for the second Sunday.)

We operate on an exchange basis with other radio clubs and welcome newcomers to this program. Any article may be reprinted unless otherwise stated, provided proper credit is given to HARC.

DEADLINE FOR ARTICLES: The 15th of each month is the deadline for the upcoming month to be published.

EDITOR: K3HIN, Rich Albert-II2I9 Halstead St., Phila., Pa. 215 698 8036  
ASST EDITOR, WB3EEI, Burnell Jones, 1525 E. Tulpenocken St., Phila., Pa. 215 424 7381

PUBLISHER/Manager: Position to be filled.

PRINTER: James Cardinal, AI3K, 4423 Aberdale Rd., Phila., Pa. 215 331 3085

TYPIST: Susan Albert.

CLUB BULLETIN STATION: N2BVA, Jim Kennedy, 214 David Pl., Magnolia, N.J.

N2BVA also serves as Policy Committee at request of Pres 609 784 7935

Special Activities Committee: Harv Bart, K3YLL. Appointed position,

Club Historian: Edith Rosner, W3AAU

Membership Chairman: Claire Kupperman, KA3DNJ, Appointed position.

Programs Chairman: Andy Prentice, N2BWC, Appointed position.

Director: Herb Marder, K3RLE Appointed position.

Three Year Trustee: WB3EEI, Burnell Jones.

Two Year Trustee: KB3SM, Bob Brocklehurst

One Year Trustee: WB3BYM, John Guyon

Ways and Means: W3SLF, Sylvia Soble

TREASURER: WA3IFY, Jay Kupperman, 1934 Deveraux St., Phila., Pa. 289 4531

SECRETARY: KA3DNJ, Claire Kupperman, 1934 Deveraux St., Phila., Pa. 289 4531

VICE PRES: WA3AOP, Richard Sambennetto, 8015 Walker St., Phila., Pa.

President: K3UKW, Tony Musero, 1609 So. Iseminger St., Phila., Pa. 271 8898

TECHNICAL COMMITTEE: WB3BDC Ron. WB3BYM John. KB3SM Bob. KE3U Steve

K2XE Jim. Technical committee meets on Tuesday evening at the QTH of WB3BYM.

Note: If someone becomes ill and you would like to see get well wishes be sent from HARC, please contact KA3DNJ Claire Kupperman who is responsible for that program.

" Let's make 1982 a year of participation from our membership"

PLEASE: SEND IN INFORMATION AND ARTICLES FOR THE CLUB NEWSLETTER.  
KEEP THE DEADLINE IN MIND WHEN YOU DO SO. WE NEED INFORMATION  
AND ARTICLES TO SHARE WITH THE MEMBERSHIP.

# UNIVERSITY of PENNSYLVANIA

THE MOORE SCHOOL OF ELECTRICAL ENGINEERING  
PHILADELPHIA 19104

University of Pennsylvania Amateur Radio Club  
W3ABT NSKZ

February 16, 1982

Dr. Sheldon Hackney  
Office of the President  
100 College Hall/CO  
Philadelphia, PA 19104

Dear Dr. Hackney:

In response to your recently released working paper on the University's ties with the surrounding community, I would like to report to you one such tie that is often overlooked. The University of Pennsylvania Amateur Radio Club, a member organization of the Student Activities Council, is currently helping to maintain and operate an amateur radio VHF repeater, located atop High Rise North dormitory. The repeater is a joint venture between the University Amateur Radio Club and the Holmsburg Amateur Radio Club, a local community group, drawing membership from throughout the Philadelphia area.

A repeater is an electronic relay device that picks up signals from Amateur Radio Operators throughout the city, amplifies the signals and retransmits them with greater power and clarity, to be heard throughout the Delaware Valley. The repeater on High Rise North serves the combined membership of the two Clubs, together almost 200 strong, as well as thousands of visiting radio operators throughout the year. The repeater has also been used to provide public service communications for such community events as the Philadelphia Marathon.

Although there are other such repeaters in the Philadelphia area, the U of P/Holmsburg repeater is one of the most well-known and heavily-used, and contributes significantly to the University's presence in the community.

Please feel free to contact me if you desire any further information on the repeater or the Amateur Radio Club.

Sincerely,

*Steven B. Phillips*  
Steven Phillips, President  
U of P Amateur Radio Club

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# American Radio Relay League Report

Stepping down this year after 10 years dedicated service as president of the ARRL is Harry J. Dannels, W2HD. It is extremely presumptuous to even attempt here to discuss Harry's accomplishments on behalf of the League and amateurs nationwide. Most of you have at one time or another met Harry at local hamfests and conventions (he has visited all fifty states in the course of his presidency, meeting a huge number of hams and discussing their concerns). What most have not seen, however, is Harry's ability to advocate the cause of Amateur Radio before Congressional Committees and the FCC. He is as much at home explaining to thirty senators why RFI legislation is necessary as he is at a hamfest discussing his new KT-34 yagi. His decision making is quick and sure, although he is able to understand opposing viewpoints easily.

Harry's service to the League goes back to the early 1960's as director of the Hudson Division, and long before that as Vice-director and in other capacities. He is a League man, through and through. There have been some rough times for amateur radio through Harry's tenure as President of the League, and social, technical and regulatory changes to which we have well adjusted. It is in large part through Harry's leadership that the League specifically, and the amateur radio service in general, has flourished and expanded. He is a hard act to follow.

In talking with members of the Capitol Hill intelligence, it was learned that the Senate is not the only culprit in the case of the missing 10 MHz band. In fact the Senate has only had the WARC treaty before it since November. While this would seem like plenty of time to ratify the Treaty, the League is informed that the State Department has been sitting on it since WARC-79, hence a good portion of the delay. As the League firmly believes that the FCC could, if it were so inclined, give 10 MHz to amateurs on a non-interference basis until the WARC treaty is ratified, you can see the selection of parts of the bureaucracy and the conspicuous absence of US amateurs on the scene.

That's it for now.

"AUTO CALL"

73, Christopher  
N3AKD

## FCC Highlights

THE PUNISHMENT OF LEONARD BOUCHER, K4MME AND GERARD MORIN, W1GM for causing malicious interference is now in force. An Order of Revocation and Suspension was issued January 28, 1982 by James C. McKinney, Chief, Private Radio Bureau. Boucher's amateur station license, granted May 30, 1980, was revoked and his amateur operator license suspended for the remainder of it's term, effective January 28, 1982. He was ordered to forward his license to the Commission. Morin's operator license, granted May 11, 1979, was suspended for one year, effective January 28, 1982. Additionally, Morin's operator license was modified for the remainder of the license term to prohibit operation between the frequencies 14.295 MHz and 14.330 MHz. Also involved in the foregoing case was Richard Eastman, N5FX, whose amateur station and operator licenses were proposed by FCC to be revoked and suspended for willfully interfering "with the radio operation of other operators" (Boucher and Morin). Like the other two, Eastman requested a hearing. Unlike the other two, Eastman did not withdraw his request for a hearing. Eastman and FCC's Private Radio Bureau negotiated a consent agreement, which was approved and the order to revoke and suspend his licenses was dismissed by a Consent Order, issued January 27, 1982 by the FCC Administrative Law Judge. The Order was released on January 29, 1982. Eastman agreed "not to deliberately interfere with communications of other Amateur operators" and agreed "to operate his station in accordance with the Amateur practice Rule (97.78) and all other Amateur Rules." FCC Rule Section 97.78 is titled "Practice to be observed by all licensees." and states: "In all communications specifically covered by these regulations each station shall be operated in accordance with good engineering and good amateur practice." FCC Rule Section 97.125, titled "Interference" states: "A licensed radio operator shall willfully or maliciously interfere with or cause interference to any radio communication or signal."

PETITIONS FOR 2KW FOR MOONBOUNCE AND FOR A 250 WATT LIMIT ON AMATEUR TELEGRAPHY TRANSMISSIONS WERE DISMISSED by FCC's Private Radio Bureau Chief, James McKinney, on January 27, 1982. In the notice of dismissal of the petitions, RM-3137 and RM-3181, FCC again sought suggestions from Amateurs on better ways to specify and measure amateur transmitter power.

FCC WILL RE-ISSUE CERTAIN RECENTLY "EXPIRED" CLUB STATION CALL SIGNS under a one-time "open season". This was in response to a request made by the A.R.R.L. I hope to have more information in next months Highlights.

THE PROVISION FOR USE OF HIGH FREQUENCY AMATEUR FACSIMILE AND SLOW SCAN TV WAS EFFECTIVE FEBRUARY 22, 1982. The frequency and license class limits and eligibility are the same as for the use of type A3 emission in the high frequency bands.

LOOK  
WHAT YOU  
ARE  
MISSING!

QST Journal Awards  
QSL Bureau  
Low Cost Insurance  
Tech. Info Service  
Operating Aids  
Training Aids  
Publicity Assistance  
Govt. Liaison

Your ARRL/CRRL membership  
buys ALL THESE SERVICES  
AND MORE. ACT NOW!

### MEMBERSHIP APPLICATION

Name \_\_\_\_\_ Call \_\_\_\_\_  
Street \_\_\_\_\_  
City \_\_\_\_\_ Prov./State \_\_\_\_\_ PC/Zip \_\_\_\_\_  
\$ \_\_\_\_\_  
Licensed amateurs, age 45 or over, upon submitting proof of age, may request the special dues rate of \$20 in the U.S. (\$25 in Canada, \$28 elsewhere, in U.S. funds)  
For postal purposes, fifty percent of dues is allocated to QST, the balance for membership.  
VISA or Chargex No. \_\_\_\_\_ Expires \_\_\_\_\_  
Master Charge No. \_\_\_\_\_ Bank No. \_\_\_\_\_ Expires \_\_\_\_\_

The American Radio Relay League  
225 Main St. Newington, CT. 06111 USA



# QRV?

We are waiting to publish your articles. Remember this is your NEWS LETTER  
Deadline for articles, 15th of the month. Should be on 8 1/2 X 11 paper. Typewritten ONLY

## April-Calendar of Events

- April 1 thru 4 - S.A.R.O.C., Las Vegas Nevada. Amateur Trade Show
- April 3 - 4 - C.D. Party - Phone This is a operating event similar to a contest. See QST for details
- April 3, Saturday. Flemington Hamfest in Flemington, N.J.  
If you've never been to this one it's worth the trip.  
About one hour from center city Phila.
- April 8 - Passover
- April 9 - Good Friday
- April 11 - Easter
- April 16 - WIAW Qualifying Run on CW
- April 17-18 - Trenton Seventh Computer Festival-Trenton State College
- April 23-25 - Dayton Hamvention. Dayton, Ohio  
This is the biggy of the year. Draws about 20,000 hams and most of the manufacturers in the business including dealers and new amateur products.
- April 25 - WIAW Qualifying Run C.W.
- April 27 - OCWA Dinner, Holiday Inn, Gaithersburg, Md.  
to be a member of this elite group you've had to hold your license a minimum of twenty five years. You might say they are "OLDTIMERS".
- April 28 - By the way on the last Wed. of each month a bunch of old-timers meet for lunch at Kenny's on Rt. 70 off the Ellisberg Circle. Not OCWA only, open to all.
- 
- April 4 - Holmesburg /ARC Business Meeting at the Landmark Inn  
Rt. 70 and Rt. 38 Junction, Mayleshad, N.J.  
8:30 breakfast, 10:00 a.m. meeting.

# FIELD DAY 1982 JUNE 26-27

Time is running short and now is the best time to plan it for June.

### 1982 FIELD DAY ACTIVITY

The club would like to sponsor a Field Day activity this year and a team is needed to run the show assemble the equipment needed and erect the antennas and most important turn in the score for the Holmesburg Amateur Radio Club. Field Day activity in 1982 will be held on the last weekend of June. Dates are June 26 (Saturday) and June 27 (Sunday). The same location as last year can be used if you want it. That location was Route I and Southampton Road. otherwise another one will have to be selected NOW. A team chairman is needed immediately. Lets go.

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William Penn Operation is scheduled for October 24, 1982 at Penns Landing in Philadelphia. Operators will be needed to operate a commoritive station this day as a club project. Equipment will be needed, people will be needed to share in the planning . A commoritive CSL card will be available for those stations operating or contacting the station this day. Call letters that will be used will be W3WP. Harry Bart, K3VLL is special programs chairman for the club so all your input should be given to him. Also when this station goes on the air the Mayor of Philadelphia will present to our club a Proclamation indicating that week to be ham radio week in our city. This should be a good program so come out and participate.

# SWAP COLUMN

KB3SM looking for crystal control H.T.  
Wanted: Two meter all mode rig. 220 synt  
radio. II meter stacked beams. Contact  
KA2MIN Jim Meaney, 26 Black Oak Dr.,  
Oceanview, N.J. 08230-609 399-7487.

WB3FSO has two meter ~~all-mode~~ 2 meter syn  
radio for sale KDK 2016 with 3 channel  
memory. CALL N3KZ telephone number btw.  
II and noon daily.

K3UKW has a vfo for new Triton 540 or 544  
this vfo is brand new. Best offer over  
70.00 american dollars or will trade.

Tempo S-1 motorola clip charger  
WB3IHY- Rubber duck & whip-673-1699  
after 4 p.m.

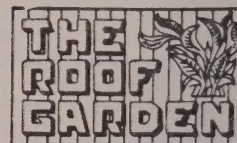
WB3EFB- 24 hour Yaesu Clock-\$25.00  
1 4 element 6 meter beam \$20.00  
Clegg FM 28-with TT mike & 2 spare  
mikes, includes 1 meg offset cry-  
stal \$200.00 K3RIE-322-8888

# HARC MEETING PLACE

FIRST SUNDAY OF EACH MONTH  
UNLESS LOCAL HAMFEST CONFLICTS  
WITH MEETING DATE.

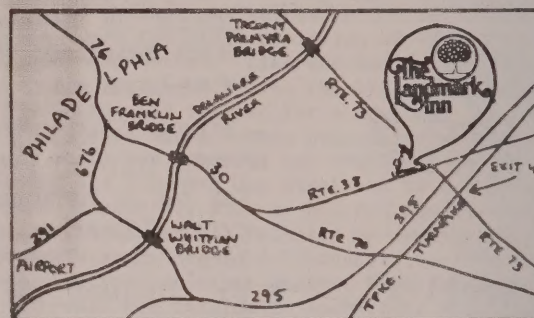


175 Rooms Outdoor Pool  
Family Plan  
AARP Discount



Dining & Cocktails  
Banquet Facilities  
for from 15 to 80

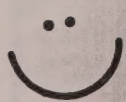
ROUTES 73 & 38, MAPLE SHADE, N.J. 08052  
(609) 235-6400



# HOLMESBURG AMATEUR RADIO CLUB "REACHOUT"

# CALL TODAY

DO YOU HAVE  
ANY IDEAS FOR CLUB ACTIVITY?



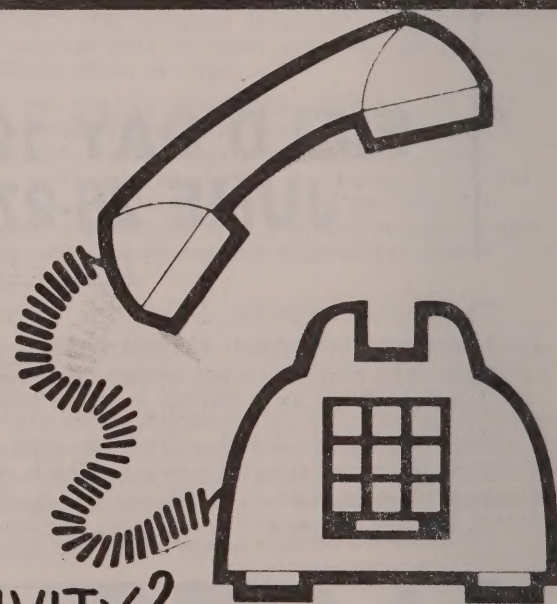
YOUR INPUT IS IMPORTANT

PENNA. 271 8898

N.J. 609-939-2432

TONY MUSERO

ANDY PRENTICE



## NETWORK NEWS

Club radio nets have been around for a long, long time. Some of them flourish and some of them wither away into monotonous fatal monologues of boredom.

Until now, no manual has been written for preparing to enter into a radio club net with the proper dash and elan that will gladden the spirit and freshen the drink of the N.C.S.

The proper method of preparation for net entry begins about a half hour before the net convenes. Begin by bringing the following list of items into the shack without being detected by your spouse, partner, or girl/boy friend, whatever the arrangement of your household and age group. You will need one large container of spinitus frumenti (see Bernie W3FAA for definition and free supply), one bag of stale doughnuts (see Herb K3RLE for reasonable prices, one copy of Hustler or Cosmopolitan, depending on your preference, concealed inside the cover of an old QST magazine and the operating manual for your rig so you can set the deviation ratio at 20 to one.

You are now ready to join the net. Drink freely and read diligently paying close attention to the illustrations until the net has been in session for fifteen minutes. Then, try to ring the door knob with a doughnut while calling the N.C.S. as loudly as you can. Pay no attention to the N.C.S. until he has called you three times. The proper response is then to greet everyone in the net and mentally conceive things he can do with his directed net.

Continue to imbibe and play shuffleboard with the remaining doughnuts until you are called on for comments. Be sure to comment on the operation faults of at least two other net members and mention the Priority traffic that you have mislaid.

Close adherence to this practice will guarantee a new NCS every other week and after one month perfect attendance on the net a large black sedan will visit your residence and arrange for your wife's widowhood.

H.A.R.C. net has no such paragon of operating techniques. It is an informative net with interesting comments and even a little net discipline.

However, if the net gets dull and deadly dig out this manual from the file and join the net.

See you on six eight five.

73 Jim N2BVA

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### CQ DX by KB3TN

SM3RL will be operating in Guinea-Bissau for three weeks starting 3-15-82. Alaine, 5R8AL is now back in the Malaguasy Rep. and plans to be on the air soon. Steve K0CS and W8TN will be on from VP9, Bermuda for the CQ SSB WPX Contest, March 27-28.

Vis, ZKICG is now active from the Northern Cook Islands usually with a list operat. BY= China, the word is that the Chinese Gov't has given permission for amateur radio starting with club stations only at this time. " Look for the enormous pileup. Some other countries to look for in the WPX Contest will be FS7 ( St. Martin). VP5 ( Turks ) and (Caicos) and VP2E ( Anguilla).

KP2A and crew will be operating from Havassa Is. from March 16 for one week. This should be 6-160 Meters, SSB, CW, QSL via WB2MSH.

73 es and DX from de KB3TN, Bruce Portnoy.

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This column will be a monthly feature of The HARC Newsletter, and will report on activities and news of various individual club members. News items will be obtained by the writer's careful monitoring of the repeater, and from information sent to him. The intent of this column is to keep the club membership informed about the varied activities of their fellow members. The activities of this month are as follows:

Jay, WA3IFY is at time of this writing, recuperating well from his double heart bypass surgery. It has been reported, that during the course of the operation, doctors successfully removed Jay's accent. Jay has been checking in to various club nets, and sounds great. Good luck, Jay, for a quick return to the ole "grind".

Rich, K3HIN has been "let out" of Rolling Hill Hospital, after a successful foot operation. Rich is confined to crutches for a few weeks, but we are sure he will be scampering up those TV antenna masts in no time.

Ah, yes it is springtime again, as can be determined by monitoring the transmissions of Lou, W2FVJ, Herb, K3RLE, Gil, WB3JJF, and yours truly, K3RBO. Lou has been heard weekly, making his trips to his boat, painting, fixing, and generally getting his yacht ready for action. Lou has been getting considerable help from John, KA3HFV and Dick, WB3EVY. Herb is already making plans for his sail from his present marina in Riverside, N.J. to a new berth at Chestertown, Md. Ah, the lure of the sea.

El, K3JJZ has been heard on the machine testing out his new timer circuit, which is designed to let him know when he is about to time out the machine. El says he will write this circuit up, when he has completed the circuit development and packaging. Stay tuned.

Look up, and you may catch sight of Ed WA2LMO/ aeronautical mobile. Ed and his wife Virginia have been heard on the machine several times, making approaches and generally keeping air traffic controllers busy between Wilmington and Camden. Keep it in the air, Ed.

Speaking about flying, another H.A.R.C. member has joined the jet set. This reporter has learned that Richie, WA3AOP (Mr. HARC) recently took his first jet flight. Rich really enjoyed himself, and said he really liked the liquor selection on the plane. Is this any way to run an airline? You bet (HIC) it is!

We were sorry to hear about Jim, N2BVA's recent problem with his AZDEN. Jim would have had his rig fixed in time for the net that night, had he not slipped on his front step. We're happy that your're back on the air, Jim. Tony, K3UKW did a great job filling in as net control, but there is only one N2BVA.



A five by five for two By Dick Levy WB3EVY

I don't build. Sometimes little things, but I don't consider myself an electronics builder by any means. I guess a lot of those projects I read about just scare me so I never try. Reading Ham Radio magazine one day, I found an article in the August 1977 issue entitled- "How to Design Yagi Antenna" - by W1JR.

This guy goes into some pretty deep stuff, at least for me that is. Lots of things about db gain regarding element spacing and material size. Various remarks about parasitic elements and length of the Yagi in wavelength or parts there-of. Even a nomograph to play with. I couldn't even spell it yet alone use it. Yet, there was something about all of the charts and figures and ideas that caused me to give it a try. I really could use a small Yagi for my station. Couldn't everyone? I have a friend in the Pocono area who I have been un-able to work through the Bangor machine (146.640) because I also key up the Pine Grove machine using my omni antenna. Here was a good way to do many things. Get selectivity and gain my signal and maybe, just maybe, learn something along the way.

Now to set my own standards. After all, the article did say. "Design" so the criteria had to lay down. Oddly enough one of the most important things turned out to be what to use to build the thing. We hams are cheap, are we not? Digging further a 48"  $1\frac{1}{4}$ " OD pole surfaced. Checking the odds and ends for material turned up two (2)  $1\frac{1}{4}$ " OD aluminum poles. So far so good. Now for the elements. A neighbor offered some  $5/8$ " aluminum tubing, thick walled, that I scooped up with no questions asked. All were at least 40" long. It looked like I might get away with building this thing free of charge. I call tell you I came close. The only items bought were the "U" bolts and everything else was fabricated or scrounged.

Okay, enough about materials. The point to be made is, do with what you have as long as it's close.

Calculator in hand and lots of paper too, started the process of design. I soon began to realize that there are acceptable compromises that can, and sometimes have to be made. Sure, you will deviate from the charts or formulae or whatever, but those deviations can be tolerated within limitations. Besides, by booms were 5', not the 8.5' as first computed. If I had 8 footers I would have used them with 6 elements on each. What to do? Compromise! Five elements would work fine, too.

I will not go into any math details or any of that boring stuff to impress anyone. You can find the issue and article and work it out for yourself. Rather, I think you might like to read how a near idiot made a twin Yagi and it works!

I found that by working out all the dimensions according to the formulae and the nomograph, for all of the elements, was a good idea after all. They did not come out to be correct for my design factor but did give me a sort of run through and dispelled my fears. So with a sheet of paper in front of me with all the proper dimensions, according to the nomograph, etc. I began to rework the entire process all over again using, this time, my criteria of materials. Damm if it did not work! I checked the figures a few times (there are many) and made sure I was right in working them out.

The end result was a twin boom five element each, two meter Yagi, that looked good, was sturdy, and built from scratch by myself. In case your're wondering why not a 10' single boom-multi element rather than the twin, I can answer by saying I have a space problem for installation. Also, I felt there would be more gain in the twin vs a single with the same total amount of elements. I believe it has been proven so.

Elements were cut in pairs for uniformity. Each was machine screwed to the boom and clamps fabricated from sheet aluminum which were machine screwed to each element and the boom. It turned out to be pretty secure after all. For a while I had doubts. Plates of  $\frac{1}{4}$ " aluminum sheet was cut; drilled; and mounted to secure the booms together with the "U" bolts. RG8 cable with a "T" connector in the center made up the harness. Old IF transformer shells were cut and mounted on each antenna boom for connection to the driven element. My idea was to make the whole blasted thing as trouble free as possible as to water seepage, etc. More on that later.

The feed for each antenna was a bit of a hassle for me. You picked out the one you want and go from there. Easy for you-difficult for me. I settled upon the Delta or "Y" feed system with a coax balun of RG58. Again, no dimensions here. Two exactly matched feed cables were made and attached. Now for the preliminary test.

The test set up was as follows: Kenwood 7400, Heath VHF SWR bridge cable, and a 10' pole. The first section was loaded and after a little spreading of the delta and a little balun trimming the SWR read out at 1.3 at 146.000. Not bad for a first try at a homebrew. The second section was set up in the manner and pinned the reflected power needle. Would you believe that second section was gone over more than 5 times including two complete changes in feed set ups? How could this be? Both units were made exactly the same and yet one works fine while the other just sits there and frustrates me. Nuts to this. No delta feed anymore. Opted for a gamma feed system that proved to be the better choice after all. Two procelin insulators held the outer tube off the driven element and a small shorting bar from the inner tube to the element gave me a 1.2:1 after a small amount of tweeking. Both units read out exactly the same!

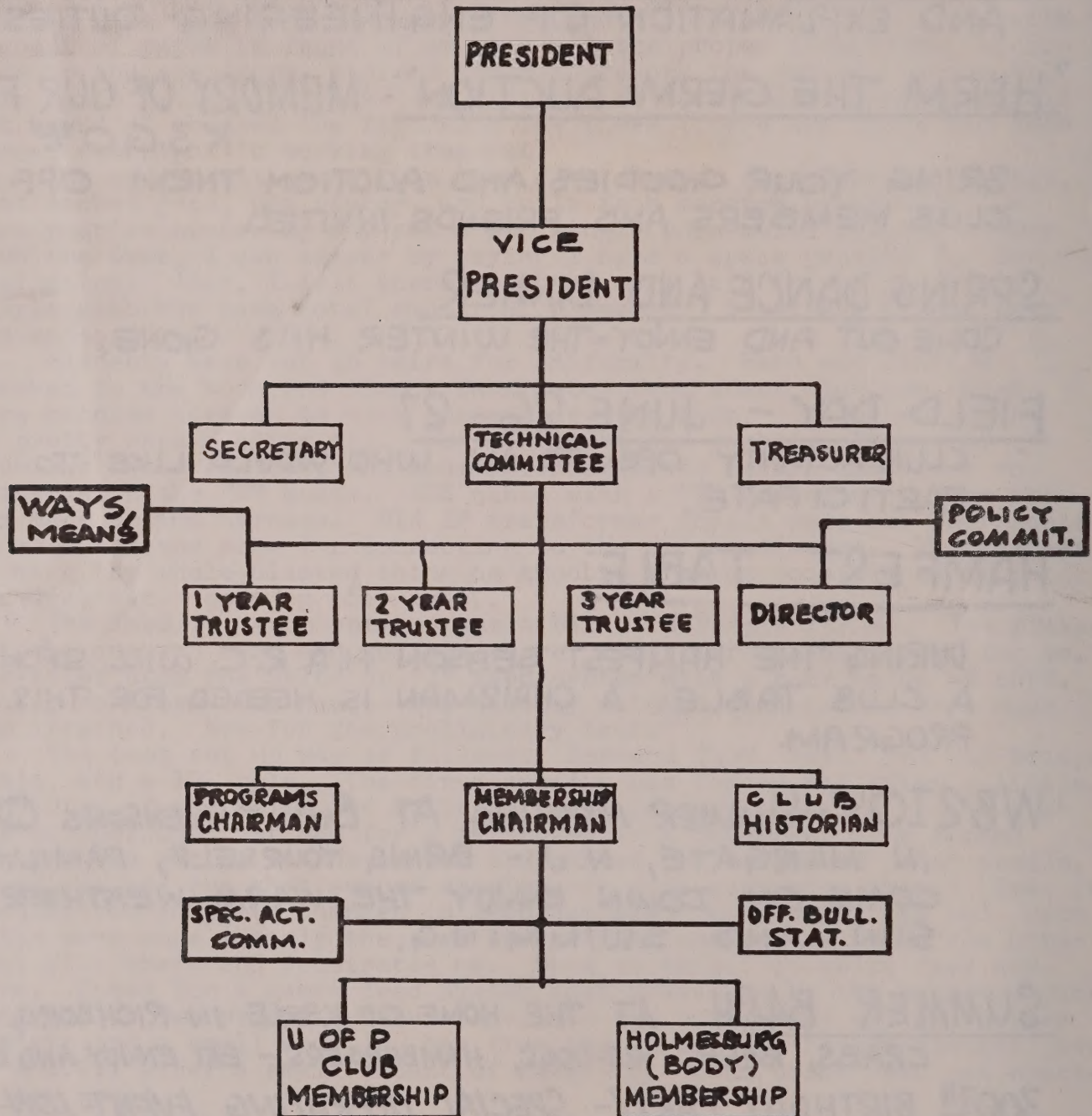
To be continued next month

# HOLMESBURG AMATEUR RADIO CLUB - SCHEDULE FOR 1982.

- WIAW CHARTER BUS TRIP. - 49 PEOPLE REQUIRED.
- WPVI-TV - (BUSINESS MEETING) - TOUR OF STATION AND EXPLANATION OF ENGINEERING DUTIES.
- "HERM THE GERM AUCTION" - MEMORY OF OUR FRIEND  
K3G0Z.  
BRING YOUR GOODIES AND AUCTION THEM OFF  
CLUB MEMBERS AND FRIENDS INVITED.
- SPRING DANCE AND DINNER  
COME OUT AND ENJOY - THE WINTER HAS GONE,
- FIELD DAY - JUNE 26 - 27  
CLUB ACTIVITY OPEN TO ALL WHO WOULD LIKE TO PARTICIPATE.
- HAMFEST TABLE  
DURING THE HAMFEST SEASON H.A.R.C WILL SPONSOR A CLUB TABLE. A CHAIRMAN IS NEEDED FOR THIS PROGRAM.
- WB2IOY - SUMMER MEETING AT BILL PINKENSONS QTH  
IN MARGATE, N.J. - BRING YOURSELF, FAMILY COME ON DOWN ENJOY THE WARM WEATHER, SUN AND SWIMMING.
- SUMMER BASH AT THE HOME OF K3RLE IN RICHBORO, PA.  
CRABS, BEER, HOT-DOGS, HAMBURGERS - EAT ENJOY AND BE MERRY.
- 300<sup>TH</sup> BIRTHDAY PARTY - SPECIAL OPERATING EVENT - LOW-BAND  
WORLD WIDE PUBLICITY - EVERYONES SUPPORT WILL BE NEEDED.  
LOW BAND STATION ON AIR FOR 24 HOUR PERIOD.
- ANNUAL CLUB - DINNER - BANQUET  
LIVE MUSIC - ANOTHER YEAR -  
OPERATION SANTA CLAUS

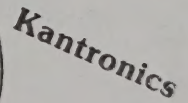
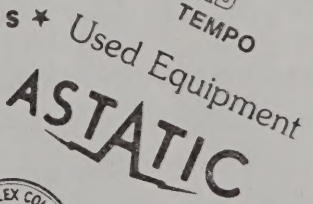
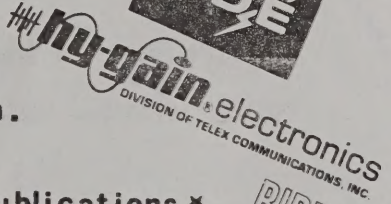
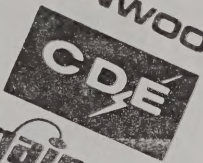
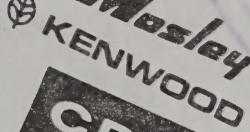
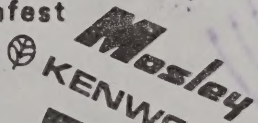
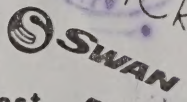
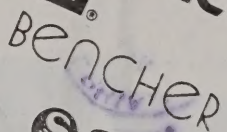
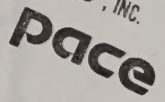
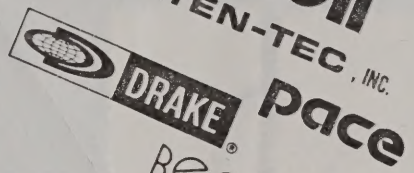
# HOLMESBURG AMATEUR RADIO CLUB

## 1982 OFFICERS



# Amateur & Advanced Communications

3208 CONCORD PIKE  
ROUTE 202  
WILMINGTON DELAWARE  
19803



Phone ..... 302 - 478 - 2757

**HOURS:**

Monday - closed *Have A Nice Day!*  
TUESDAY and THURSDAY 10 - 6  
WEDNESDAY and FRIDAY 10 - 9  
SATURDAY 10 - 2  
SUNDAY 1pm - 4 unless attending a hamfest



Telephone or visit the store to discuss your equipment needs with

Gisele Walls, K3WAJ  
Bill Ryan, WB3DPJ  
General Manager

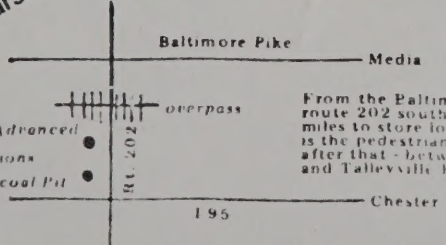
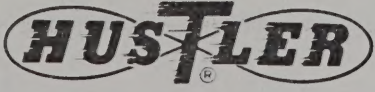
AMATEUR • COMMERCIAL • G.O.M.R.S.

• sales • service • repairs •

Training program - novice thru extra.

Transceivers \* HT's \* Antennas \* Wire \* Connectors \* Publications \*  
Headphones \* Towers \* Keys \* Callbooks \* Building needs \*  
Test equipment \* Books \* ETC.

NO SALES TAX IN DELAWARE!



From the Baltimore Pike take US route 202 south approximately 6 miles to store location. Landmark is the pedestrian overpass. 4th bldg after that - between Adam's travel and Talleville Post Office.

From Interstate 95 take exit 8 (route 202) north and follow it approximately one mile. Landmark is a restaurant called the Charcoal Pit - bldg is on the left between Adam's Travel and the Talleville Post Office. Entrance is in rear.



MAIL ORDER, phone, write

# Newsletter

FIRST CLASS MAIL

Holmesburg  
Amateur  
Radio  
Club



HOLMESBURG AMATEUR  
RADIO CLUB  
P. O. BOX 6253  
PHILADELPHIA, PA 19136

## PHILADELPHIA'S WILLIAM PENN RADIO BIRTHDAY PARTY

START : 0000 GMT October 24th

END : 2359 GMT October 24th

The Holmesburg Amateur Radio Club of Philadelphia, in conjunction with the City's 300th Birthday Committee, Century IV, will be operating as W3WP for 24 hours from Penn's Landing, Philadelphia, Pennsylvania to celebrate the birthday of the City's founder, William Penn. This event will be an official part of the year long celebration observing the 300th birthday of Philadelphia.

A handsome commemorative QSL card will be sent to all stations making contact with W3WP, the birthday station. All North American and Canadian stations please include an SASE.

### EXCHANGE :

RS(T) City, State, Country, and W3WP log number.

### FREQUENCIES:

To be announced at another date