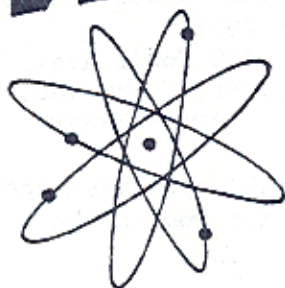
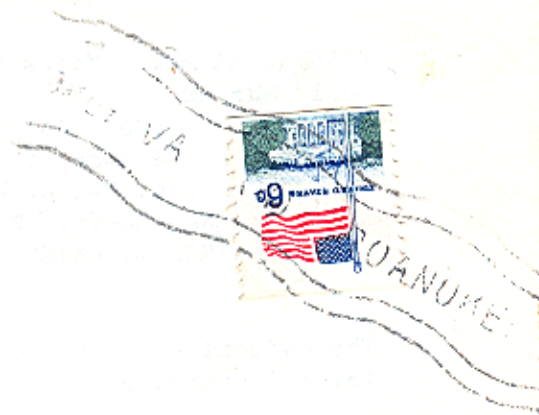


W4CA LOG



*Amateur Radio News in
The Roanoke Valley*

W4CA LOG
P.O. Box 2002
ROANOKE, VA.



3rd
~~FIRST CLASS MAIL~~
~~Address Correction~~
Requested

Van Winner
Route 4, Box 428 F
Salem, Va. 24153

JANUARY 1971

CLUB HOUSE - 110 Union Street, Salem, Va. 24153 Meetings: 2nd & 4th Fridays @ 8:00 PM

PRESIDENT - Van Wimmer, Sr. WA4BIX, RFD 4, Bx 446, Salem, Va. 24153 Ph 389-2806

ACTIVITIES - Richard L. Genter, K4BKX, 914 Fairhurst Dr., N. W., Roanoke, Va.
24014 Ph 362-9777

SECRETARY - Sam D. Kent, K4CEK, 3028 Carolina Dr., Roanoke, 24014 Ph 344-1801

TREASURER - Geo. W. Chilman, K4WYR, 3534 Overbrook Dr., Roanoke 24018 Ph 774-5916

EDUCATION DIRECTOR - Buddy Cole, WB4IWH, 330 White St., Salem 24153 Ph 389-4691

PUBLICITY DIRECTOR - Earl Wood, WA4HYA, 120 Noble Ave., Roanoke 24012 Ph 345-7503

EQUIPMENT DIRECTOR & LOG DISTRIBUTION - Bob Anderson, K4UMK, 3703 Colony Lane
Roanoke 24018 Ph 774-2621

LOG PRINTING - Earl Wood, WA4HYA, 120 Noble Ave., Roanoke 24012 Ph 345-7503

GUEST EDITOR - Earl Abbott, K4GEJ, Rt. 1, Bx 180, Roanoke 24012 Ph 342-2766

Hope each of you had a most enjoyable and meaningful Christmas Season.
Happy New Year. I'll be looking for you on the bands and at the club in 1971.

Club Activities Calendar

SECOND FRIDAY - Film (unless otherwise announced) meetings start at 8:00 PM

FOURTH FRIDAY - Non-planned Activity -- fellowship and the equipment repair clinic.

- Swap Shop - Bring gear you would like to sell or swap

EQUIPMENT REPAIR CLINIC - The topic of the second meeting in January will be

equipment repair - calibration of 100KHz oscillators, alignment, trouble

shooting, etc. Bob Anderson asks that you call him before the meeting so

that he will know what test equipment to bring to the club house. If this

turns out well, it will be held during every fourth Friday meeting.

There is no labor charge for this service.

WINDBAGGER NET - Meets Saturday Nights at 8:30 PM NCS K4UMK Freq. approx
50.1 MHz AM

RoBot NET (Roanoke-Botetourt) meets nightly around 9:00 PM Freq. approx

28.750 MHz LSB One of the following vice presidents usually calls the net:

WA4HYA, WB4DQA, K4LUA, WB4PTK, K4GEJ, WB4BLJ, WA4BIX, K4BIR, K4VCP, K4LZV,

K4VCJ, W6CNA, K4WVS, WB4ISM, WB4FWF, WB4JBJ, WA4WXP, WB6TJC, W4SZV, W1CYB,

W4ANL, WA3KDR/4, W4ZZU, etc. WA4NBK.

The objective of the club is to make amateur radio a more enjoyable hobby
for all amateurs.

A BROADCAST at 9:30 PM on the Wednesday and Thursday nights before the
January meetings will be sent telling what activities are scheduled for that
meeting. The frequencies will be 28.750 MHz LSB and 146.98 MHz WBFM. If
enough interest is shown, we will try to have these broadcasts before
each club meeting.

Members, non-members, y'all are asked to bring gear, books, QSL's or other
items of interest to the club meetings with you. Let the other hams see what
you've got. The central idea here is to display equipment and exchange ideas.
(If you want to sell it, that's fine too.) We will try to have specific
meeting dates set aside for buy - sell - swap.

(2)

We need volunteers to head up activities, give lectures, man the club station during contests, help Novices, etc. If you want to help, there are opportunities waiting just for you.

NOVICE EQUIPMENT: keys, crystals, etc. If you have old equipment that you are no longer using but would be useful to some novice, why not donate it to a newcomer with the understanding that he in turn donate it to someone else later. This could be on a person-to-person basis or thru the club. We have some new amateurs in the area who could use this stuff. TNX

The list below is a partial list of the films we will try to get for 1971. Since these films are on a free-loan basis with schools getting top priority, no schedule can be given. Please tell one of the club officers which titles interest you most. If there are films not on the list you want to see, be sure to tell a club officer about it. If the film is one you have already seen, why not use the DRAKE TR3 upstairs, enjoy some hot coffee and donuts, or have a chat with friends in one of the many rooms.

APOLLO COMMUNICATIONS 6 1/2 min NASA

FREQUENCY COORDINATION AT WHITE SANDS 16 min White Sands Missile Range

ENVIRONMENTAL TESTING 14 min centrifuge, electrodynamic shaker, rocket sled, climatic chamber Sandia Laboratories

EXTRA HIGH VOLTAGE CONDUCTOR 17 min Reynolds Metals Company

COMPUTER GLOSSARY 14 min defines in basic terms flow chart, boolean logic, nanosecond & simulation to give the viewer an enlarged understanding of electronic data processing. IBM

IBM CLOSE UP this film in full color, presents a look at IBM, its people and their views of the technology with which they are working. Included are glimpses into real life applications of computers in education, medicine, space and textile design. IBM

INCREDIBLE MACHINE 15 min shows some of the ways Bell Telephone Laboratories' scientists are using computers in communications research. Bell System Telephone Offices

INFORMATION MACHINE, THE 10 min starts with primitive man and ends with advent of machine simulation IBM

VOICE OF COMMAND, THE 28 min shows the globe-spanning communications network of the US Army Dept of the Army

AIRBORNE MAGNETOMETER 24 min tells how the earth's magnetic field is utilized in prospecting from an airplane United States Geological Survey

LINK 8 min current experiments in high energy Physics US Atomic Energy Commission

MACHINES THAT THINK 29 min research at Argonne into scientific uses of electronic computers US Atomic Energy Commission

NUCLEAR POWER AND THE ENVIRONMENT 14 min takes up problems and discusses care taken in studying and controlling the effects of nuclear plants on the environment US Atomic Energy Commission

RADAR REFLECTION POLARIMETER 8 min shows objects in space are identifiable signatures on an oscilloscope. Lockheed- Georgia Corp

SUPER CONDUCTING MAGNETS 12 1/2 min an introduction to the subject US Atomic Energy Commission

TESTING FOR TOMORROW 29 min non destructive testing US Atomic Energy Comm.

CARE AND FEEDING OF MICROPHONES 10 min principle of different microphones shown by animation F A A

(3)

CHALLENGE OF UNANSWERED QUESTIONS 15½ min presents principal features of the Aurora NASA

COMPUTER FLUID DYNAMICS 24 min includes actual pictures of a bridge being shaken to pieces followed by computer-generated movies that reveal what is responsible for the catastrophe (swirling wind eddies) US Atomic Energy Comm.

GENESIS OF THE TRANSISTOR 15 min tells how the transistor was developed Bell Telephone System

LASERS UNLIMITED 10½ min explores some of the most innovative uses in science, industry, medicine Bell Telephone System

ATOMIC POWER TODAY 15 min shows how a nuclear plant is designed, built and operated for dependable service US Atomic Energy Commission

BUILDING A CERAMIC CATHODE RAY TUBE 23 min explains advantages and problems in using ceramic and tells complete manufacturing process. Tektronix

CRT WINDOW TO ELECTRONICS 35 min simple explanation of how CRT works Tektronix

CIRCUIT BOARDS, DESIGN AND MANUFACTURE 30 min layout, mfg & testing of printed circuit boards Tektronix

INSTRUMENT FLOW AND PRODUCT FLOW 27 min shows production flow of Tektronix Plant #3 Tektronix

OSCILLOSCOPE DRAWS A GRAPH, THE 20 min shows that the scope is electronics most useful measuring instrument Tektronix

OSCILLOSCOPES AND TRANSDUCERS 12 min shows what scopes are and what they do (primarily for young audiences) Tektronix

PROPER HANDLING OF CRT 20 min shows right and wrong ways to handle CRT and how to de-activate a cracked or defective tube Tektronix

SOLVING AN UNBALANCED BRIDGE 17 min shows a simple way to find a solution Tektronix

SOUNDS OF PROGRESS 34 min describes operation of component mfg div for metal, plastic, and ceramic parts for Tektronix scopes. Tektronix

SQUARE WAVES, THE 24½ min theory of square wave and a demo using a square wave generator and scope. Tektronix

TEKTRONIX AND THE WORLD OF MEASUREMENT 23 min introduces Tektronix and describes its product Tektronix

THEVENIN'S THEOREM 12 min explains T. T. and uses in a practical application Tektronix

TIME AND QUANTITY 27 min discusses measurement of time and quantity from billions of years to billionths of a second Tektronix

TRANSMISSION LINES 23 min discusses fundamentals of transmission lines Tektronix

INTRODUCTION TO DIGITAL COMPUTERS 24 min what a computer is, how it works UNIVAC film library

TRANSRESISTANCE, AN APPROACH TO TRANSISTOR AMPLIFIER ANALYSIS 22 min shows concept of transresistance applied to the design and analysis of transistor amplifiers Tektronix

TRIODE PLATE CHARACTERISTICS 16 min shows how curves are plotted and how to draw a load line -- shows how to determine amplification factor, AC plate resistance and transconductance. Tektronix

In addition to the list above, there are travel films available about most places in the world. If you don't see it, ask for it. Van has a full book of films so see him for other films.

By Pappy Bates W4ZZV

I went back ten years for this 'poop' - all the way to QST for Jan. 1961 under "OPERATING NEWS", and we find ---
 "Be truthful in RST reporting. May we call to mind Mark Twain's admonition: "When in doubt, tell the truth." Our dictionary says truth is complete conformity to fact or reality. Perhaps some of us are plain prevaricators or feel it should be a matter of opinion as to how to use the truth? Our RST reporting system is a sharp, practical system; it is built on definite and exact R-S-T meanings for each point of readability, strength, tone scales. Use Operating Aid No. 2, the R-S-T system, available from ARRL on request by Radiogram or otherwise, and you can hardly go wrong.

We get letters railing at dishonest reporters and those who misuse the tone indications particularly. 'Tis increasingly apparent that the report which through carelessness or flattery is dishonest, is a disservice to the man who receives it ... Also to the one who gives it. Let's all cease lulling fellow amateurs into complacency. It is a rude awakening indeed, when an FCC Citation for a poor note or otherwise defective signal arrives. Keep those RST definitions before you, as you operate. Consult them. Give honest reports, and you can rend your fellow amateurs and yourself a real service."

Deepest sympathy to the family of Jim Martin, K4LZV, in the recent death of Lueamma, his wife.

The following comments are from Van Wimmer WA4BIX

Va. State ARRL Convention May 22-23, 1971

War Memorial Building, Vinton, Va. (Route 24 -- off US 460 in Roanoke County)

Sat. May 22 6 PM Registration & Social

8:30 PM Firstnighter Round & Square Dance (Live Music) Figures by Andy Anderson music by the Top Notches. Free Western Square Dance demonstration during breaks casual or western dress, please.

Sunday May 23 7:00 AM Registration & free Continental Breakfast

LARGEST FLEA MARKET HELD IN THE ROANOKE DIVISION. ALL DEALERS INVITED. NO FEES.

Contests: Homebrew, mobile rigs, QSL's, and left foot sending.

Picnic area, playground equipment, free parking, hot lunches available, dealer displays, dealers, flea market.

Guest Speaker: Joseph S. Galeski, Jr., W4IMP, Richmond, Va. Title: Homebrew Techniques Joe is the author of numerous homebrew articles in QST and we are honored at being able to obtain him as our featured speaker.

ARRL FORUM meet the officials. We are going to request that Bob Denniston, ARRL President, or John Huntoon, or Lew McCoy come down from headquarters.

Registration will be \$1.50 each. Dance admission will be \$1.00 each.

We will have a SUNDAY LUNCH again this year by popular demand, but the menu has not been worked out yet. Sunday Breakfast (Continental style will be free)

On Saturday Night (also the National Convention of THE TUMPIN' KEGGERS)

We will have awards for the best flat foot couple, the best dressed couple western style, and the best dressed Tumpin' Kegger Couple. NOTE: This Convention is planned as an informal family affair. Activities will be planned for the women and children.

Buddie Storie and Stu Meyer are planning to attend with their large display from the Aerotron factory.

1971 Roanoke Division Convention
Richmond, Va. October 9-10, 1971

Sponsored by the Richmond Amateur Radio Club. Their convention committee includes K4WKH, W4FJ, W4IMP, K4JYM, W4JUJ.

Anyone interested in chartering a bus to this one? If so contact Van Wimmer 389-2806.

A Tidewater QSO Party is planned in May, sponsored by the Tidewater Amateur Radio Club of Norfolk, Va. Watch QST for the details. The club will operate five stations (80-10) from one of the artificial islands (Seagull Island) of the Chesapeake Bay-Bridge Tunnel System. Mr. Jack G. Starr, WB4GXE, has been appointed General Chairman of the Tidewater QSO Party.

P. O. Box 9861 Norfolk, Va. 23505 Mayor Martin of Norfolk has agreed to proclaim the week of the QSO Party as Amateur Radio Week in Norfolk. He is urging the mayors of other Tidewater cities to join in the proclamation making it an All-Tidewater event.

Club House: The radio shack of the club house now has carpeting - complements of Rose Wimmer, XYL of WA4BIX.

Novice Rig: We now have several Novices in the club and several who inquired about joining the club. They have all expressed that they would like to operate the club station - mainly because only about 50% of them have a Novice rig at home. We are going to start raising funds to buy a Heathkit, model HW-16 crystal controlled transceiver which would be a Novice and CW rig at the club house and a good CW rig at FIELD DAY. We already have \$15.00 in donations towards the purchase of the rig. Van is heading up this program. We will discuss this further at club meetings.

The club welcomes the following Novices: Wilsie Crouch, WN4SY V; Jim Morgan, WN4TEC; and Tommy Stanley and Rick McCullough have passed their examinations. Congratulations.

It's not too early to start thinking about Field Day. Let's participate in some of the contests before Field Day, brush up on technique, and plan to have a real enjoyable time when Field Day time rolls around. The club will operate as usual from Floyd County where there is plenty of room for tents, campers, and antennas. Everyone is invited.

The FCC Examiner will be here in April. Hope to see a lot of fellow amateurs there.

Deepest sympathy to the family of Harold L. Butler, ex K4PSE, who died recently.
741 Haines Road, York, Pa. 17402

REPEATER ACTIVITY

Sam Kent

Many months ago, a project was undertaken to have a 2 meter repeater operational in the Roanoke Valley. Step one was to find the necessary equipment to build the unit. This included 450 mega Hertz transmitters and receivers, 2 meter transmitters and receivers, automatic identifying equipment (tape recorder), automatic logging equipment (tape recorder), control panel to turn the equipment off and on, back-up equipment to turn the equipment off in the event of failure of the primary system, basic designing of all interconnections of this equipment and finally a place to put all of this.

The club has received permission to put the remote transmitters in the Channel 7 TV building on Poor Mountain.

The club has on hand the 450 mh gear and all of the control functions have been designed and tested.

We are expecting the final piece of 2 meter gear within several weeks.

The final steps of interconnecting and testing will start thereafter.

Because of the weather on Poor Mountain this time of year, it is not recommended that antenna installations be made yet. As soon as it becomes a little warmer, a committee will be formed to help with the installation.

It is obvious from the past discussions of those interested in the repeater activities that no mention has been made of input and output frequencies. This has been done deliberately. At the present time, I have selected a pair of frequencies but I am reluctant to mention these. The reason for this is that there is a possibility that the selected frequencies could accidentally fall right on the harmonic of some other piece of gear on the mountain. Of course this would make our equipment ineffective and all of the crystals purchased by others would be wasted money. Let me invest a few dollars for test purposes and as soon as I am satisfied that we have a good operating system, I will let you all know.

My Company keeps me traveling rather frequently and therefore I cannot spend 100% of my time on our project. Within the last few months I have been lucky to be able to spend 10%. I hope soon this load will lift but till then, keep the peace.

Hope all of you have a little patience and soon we will have a system in Roanoke Valley second to none.

(editor's note)

In addition to the excellent work Sam is doing on his repeater, I'd like to mention that there are two other 2 meter repeater systems in the valley. One is the Virginia Army Mars System which operates just outside the 2 meter band, the other system is being developed by Bill, W4SZV.

THE HEATHKIT SB220
LINEAR AMPLIFIER

By Tom Lamons WB4BLJ

On Nov. 20, I ordered the new Heathkit 2KW Linear Amplifier Kit. I was surprised that it took only about 2 1/2 weeks to be delivered by the REA. Shipping charges to Roanoke are only \$9.32. The power transformer is shipped separately from the rest of the amplifier and the combined weight is 58 pounds.

Construction time is advertized as 20 hours. I found it took me about 32 hours to build. I had a good time during the construction straightforward and easy to follow. The main thing to watch out for is getting in too big a hurry and failing to finish a step or leaving it out completely.

I felt that the most difficult phase of construction was installing the 9mh RF choke in the cathode circuit - difficult mainly because the parts are bulky and hard to work with.

So far as operation goes I have had the rig on the air now about three days. I had only one problem to solve as a result of a wiring error. I had neglected to solder two capacitors to a ground lug, and I had some arcing as a result. Also I have found that tuning is critical because if you are off any, there will be arcing.

I am very well pleased with the performance of the SB220 so far, and I highly recommend it to anyone who wishes to get on the air with 2 KW PEP.

Wanted: Photo multiplier tubes, relay rack open or enclosed 60-80 inches high.
Call Earl Abbott K4GEJ at 342-2766.

For Sale: 50 foot crank-up tower - \$50.00. New TRI-Band beam for sale or trade for a quad. Call Van Wimmer WA4BIX at 389-2806.

Wanted: Novice transmitter for use in the club house. If you have such a transmitter for sale, trade or give-away, please call Van Wimmer.



ROANOKE VALLEY AMATEUR RADIO CLUB

CLUBHOUSE

110 Union Street — Salem, Virginia 24153
(CLUB MEETING ON THE SECOND AND FOURTH FRIDAY EA. MONTH)

The Virginia QSO Party will be held the weekend of March 13 - 15, 1971.

All amateurs are invited to participate in the Virginia QSO Party sponsored by the Roanoke Valley Amateur Radio Club. Virginia stations are urged to work as many out-of-state stations as possible to permit others to earn credit for the Old Dominion County Award and for USA-CA.

Rules:

1. Contacts will be made during the 32-hour period from 1800 GMT Saturday, March 13, 1971 to 0200 GMT Monday, March 15, 1971.
2. No power limit or minimum time limit.
3. The same stations may be worked once on each different band.
4. The general call is "CQ VA"; Virginia stations are requested to identify themselves by signing "DE VA" or "THIS IS VIRGINIA."
5. Virginia amateurs residing in independent cities will use a neighboring county in contest exchange, and will use that county throughout the contest. (Maximum counties - 96)
6. Phone, CW and RTTY will be considered separate contests, and separate logs should be submitted. (Novice will also be considered separate.) (NOTE: Log must state mode of operation.)

Exchanges:

Virginia stations will send QSO Number, RS/RST Report and County;
Example - NR 56 - 579 - FRANKLIN. Out-of-state stations will send QSO Number RS/RST Report and State, Province or Country.

Scoring:

Virginia stations will count one point for each complete contact, including those with other Virginia stations. Multiply the number of QSO points by the number of States, Provinces, Countries and Virginia Counties worked to obtain TOTAL score. (Do not count Virginia as a State or Canada as Country.) Out-of-state stations likewise count one point for each complete contact with a Virginia station. Multiply the number of QSO points by the number of different Virginia Counties worked.

Out-of-state stations multiply number of complete contacts with Virginia Stations times the number of Virginia Counties worked.

Awards:

Highest scoring station in each state, Province and country will receive a certificate. Virginia stations will compete for First, Second, Third, Fourth and Fifth place certificates.

Suggested Frequencies:

CW - 3560, 7060, 14060, 21060, 28060.

PHONE - 3930, 7260, 14285, 21375, 28750.

Logs, showing Dates - Times - Station Contacted - Bands - Mode - Location - and Final Score must be received no later than April 30, 1971.

Send Logs plus a self-addressed, stamped 4 x 9 1/2 envelope to:

ROANOKE VALLEY AMATEUR RADIO CLUB
c/o VAN A. WIMMER, SR. - WA4B1X
ROUTE 4, BOX 446
SALEM, VIRGINIA 24153

Hope to see everyone during the Virginia QSO Party.

VIRGINIA COUNTIES

- | | | |
|------------------|--------------------|--------------------|
| 1. Accomack | 36. Gloucester | 71. Powhatan |
| 2. Albermarle | 37. Goochland | 72. Prince Edward |
| 3. Allegheny | 38. Grayson | 73. Prince George |
| 4. Amelia | 39. Greene | 74. Prince William |
| 5. Amherst | 40. Greensville | 75. Pulaski |
| 6. Appomattox | 41. Halifax | 76. Rappahannock |
| 7. Arlington | 42. Hanover | 77. Richmond |
| 8. Augusta | 43. Henrico | 78. Roanoke |
| 9. Bath | 44. Henry | 79. Rockbridge |
| 10. Bedford | 45. Highland | 80. Rockingham |
| 11. Bland | 46. Isle of Wight | 81. Russell |
| 12. Botetourt | 47. James City | 82. Scott |
| 13. Brunswick | 48. King & Queen | 83. Shenandoah |
| 14. Buchanan | 49. King George | 84. Smyth |
| 15. Buckingham | 50. King William | 85. Southampton |
| 16. Campbell | 51. Lancaster | 86. Spotsylvania |
| 17. Caroline | 52. Lee | 87. Stafford |
| 18. Carroll | 53. Loudoun | 88. Surry |
| 19. Charles City | 54. Louisa | 89. Sussex |
| 20. Charlotte | 55. Lunenburg | 90. Tazewell |
| 21. Chesterfield | 56. Madison | 91. Warren |
| 22. Clark | 57. Mathews | 92. Washington |
| 23. Craig | 58. Mecklenburg | 93. Westmoreland |
| 24. Culpepper | 59. Middlesex | 94. Wise |
| 25. Cumberland | 60. Montgomery | 95. Wythe |
| 26. Dickerson | 61. Nansemond | 96. York |
| 27. Dinwiddie | 62. Nelson | |
| 28. Essex | 63. New Kent | |
| 29. Fairfax | 64. Northampton | |
| 30. Fauquier | 65. Northumberland | |
| 31. Floyd | 66. Nottoway | |
| 32. Fluvanna | 67. Orange | |
| 33. Franklin | 68. Page | |
| 34. Frederick | 69. Patrick | |
| 35. Giles | 70. Pittsylvania | |

by Phil Sharr

It wasn't too many years after the first "sputnik" that U. S. radio amateurs had their own satellite circling our earth. Thus U. S. "hams" are staying up with new events as they happen.

A "ham" radio transmitter on the moon surface therefore is a valid speculation and may be a reality in this century. Aside from minor technical problems there would be no major operational difficulty, but; let's go just one step further and say that amateur radio operation would be desirable from one of Jupiter's moons. (There are four moons nearly earth size near Jupiter and eight smaller satellites). The operational desire would be quickly short circuited by operational practicality. It would take over 70 minutes to get an answer to our CQ, and 70 more minutes to establish call letters for log entry. The reason for this time lapse is distance. Such large distances and sizes are difficult to visualize but if they are reduced by some scale to human daily standards then positional relationships can be appreciated.

Let's start with our sun as a beach ball 2 1/2 feet in diameter. Earth is a pea size sphere 250 feet away, and our own moon is a "BB" 7" away from our pea size earth. (It takes about 2 1/2 seconds for radio waves to travel to the "BB" moon and back.) Jupiter is a small grape fruit sized sphere 1000 feet away from pea earth, and radio waves take 70 minutes to get there and back. Our furthest planet Pluto (also pea sized) is almost two miles away and over ten hours radio wave round trip.

Our nearest beach ball neighbor sun is in Denver, Colorado with about an 8 year round trip for radio signals.

I'm almost willing to bet that some DX hound will try to put a rig there. I wonder if ARRL will have a W.A.P. (Worked All Planets Certificate).

Bill Giles, WB4DQA, is working on a receiving system for satellite weather pictures.

Earl Abbott, K4GEJ, is working on a linear using (4) 811A's, and will give a short talk at the club on this project when it is finished. Thanks to the following for components: W4OKP, WB4BLJ, W4ZZV, and First Army Mars.

WIDDERS CLUB NEWS (XYL'S OF HAMS)

MEETING REPORT: Eight Widders and one guest attended the regular meeting at the Club House on Nov. 13. Final plans for the Christmas party were discussed. Election of officers was held. The following were elected to serve in '71: President, Connie Wagner; Vice President and Activities, Shirley Burkett; Secretary, Doris Kavitz; Treasurer, June Wood; and Reporter, Betty Lamons. The Widder of the Year was also selected by secret ballot. Following the meeting, everyone enjoyed pot luck refreshments.

THE NEXT MEETING: The next regular meeting will be held on Friday, Jan. 8. Members will meet at the Club House at the usual time. Several cars will be taken to the home of Virginia Rudolph at 360 Koogler Drive, N. W., Roanoke for the meeting. Virginia R. and June Wood will be co-hostesses. Secret pals for 1971 will be drawn at this meeting.

CHRISTMAS PARTY: The Christmas Party was held on the evening of Saturday, Dec. 5 at Buzoo's in Roanoke. Widders and husbands enjoyed a fine meal. Secret Pals exchanged gifts and revealed their Pals for the year. Gifts were drawn, and a number of door prizes awarded.

Officers for 1971 were recognized. The Widder of the Year Award went to Connie Wagner, President. She received a framed certificate. Bette Chilman was given the award for perfect attendance to Club Meetings. Virginia Rudolph was recipient of the Stinker of the Year Award.

BIRTHDAY GREETINGS: Belated birthday wishes go to Virginia Rudolph, November 6; Sally Bobbitt, Nov. 24; Louise Martin, Nov. 24; Chris Cole, Nov. 2; and Bette Chilman, Dec. 5. May you all have many, many more!

HAPPY ANNIVERSARY: Best and belated wishes go to those who have celebrated recent anniversaries: Virginia and Bob Rudolph, Nov. 28; Phoebe and Jim Cole, Nov. 30; Darlene and Kendall Pinion, Dec. 2; and Jim and Louise Martin, Dec. 24.

Hope that everyone had a Merry Christmas and that 1971 will be good to you! Let's all turn out for the next meeting on Jan. 8. Hope to see you there!

Betty Lamons,
Reporter

It has taken more than 25 man-hours to get out this W4CA LOG (getting the news, writing it down, printing and mailing it). That figures out to 5 men for 5 hours or 25 men for 1 hour. Thank you for reading it.

A.R.R.L. CONVENTION
MAY 22 - 23 1971
WAR MEMORIAL BLDG. VINTON, VA.
Amateur Radio Operators Convention

Sponsored by
ROANOKE
Valley Amateur
Radio Club

WA4BIX
Convention Chairman

