

PACK RATS'



CHEESE BITS



MT. AIRY VHF RADIO CLUB, INC.

CLUB CALL: W3CCX

MT. AIRY VHF RADIO CLUB, INC., PHILADELPHIA, PA. ARNS
50.125, 144.150, 432.110, 1296.025 Mhz, WR3ACD - Repeater 222.98/224.58 Mhz

Affiliated Club: AMERICAN RADIO RELAY LEAGUE

Meetings: Third Thursday of each month at 8:00 P.M.
Southampton Free Library, 947 E. Street Road
Southampton, Pennsylvania 18966

SCANNED TO PDF BY BERT, K3HUV, 2012

VOLUME XXII

APRIL, 1980

NUMBER 4

THE PREZ SEZ

Lately I've heard it said quite a few times, "why don't we hear any Pack Rats on the bands anymore. We're supposed to be the paramount VHF club in the country, but very few of us ever get on the air!" More and more we've heard reports of FM stations unknowingly operating in the 144.1 to 144.3 range on 2 meters. They were asked politely to leave and usually did, but heck, they were only operating on what they perceived to be an unused frequency! We all have our excuses, most of them excellent for not being on, and a lot of it just amounts to the post-contest winter doldrums. But it's Spring now and time to come alive again. There are numerous "activity nights" on the different VHF and UHF bands, and of course the Monday night nets could use a shot in the arm; why not check in instead of just listening this Monday! Since the conclusion of WARC, I think we've become a little complacent about the "use it or lose it" attitude of a year ago. But in the case of 2 meters we might lose it to ourselves. How foolish we would look complaining about FM in VHF contests and then lose our band segments to FM because we were never on! Think about it.

Those who attended the March general membership meeting were treated to an amazing demonstration of European broadcast television D X by Jerry Pulice, WB2CPA. Watching Jerry talk about and show his reception of the Russian T.V. pictures reminded me of our first EME Contact. Watching the picture fade in and out was like hearing a signal fade in and out with moon librations. We all thank Jerry for driving down from Staten Island and showing his adventures with us. He brought two friends along, WA2ZBE and N2BKK.

Don't forget April 24th is ARRL night. Hopefully Dave, K1ZZ will be bringing a surprise with him at that time. We know he will be accompanied by G3OUF of the RSGB, and we have invited all the local ham clubs to attend so there should be a good turn out and it should be a very interesting meeting.

And lest I forget...June 14th and 15th is (yes it's true), the June VHF QSO Party at Hilltown. Your contest committee already has things rolling, but we need help if we're going to WIN this year. Contact Jim, N3AHI; Dan, WA3NFV; or myself if you want to volunteer. If

u're not a Club member or a VHFer, come on down...maybe it will give you a few ideas! Don't forget the banquet on April 26th.

See you all on the air and there!

73, Bill, W3HQT

Pack Rats CHEESE BITS is a publication of THE MT. AIRY VHF RADIO CLUB, INC. Philadelphia, Pa. and is published monthly.

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SWAP SHOP ITEMS - no charge.

DEADLINE FOR ARTICLES IS THE GENERAL MEMBERSHIP MEETING.

EDITOR:

W3CL, Harry B. Stein
2087 Parkdale Avenue
Glenside, Pa. 19038
215 - 887-5052

PUBLISHER/SUBSCRIPTION MANAGER:

K3GAS, Doc Cutler
7815 New Second Street
Elkins Park, Pa. 19117
215 - ME 5-1078

PRINTER:

WA3FOF, Ralph Alexander
2600 Cheltenham Avenue
Philadelphia, Pa. 19150
215-276-4185

TYPIST:

WA3TEM, Marsha Lissauer

TRUSTEE OF CLUB CALLS: W3CCX-WR3ACD:

WA3AXV, Ronald Whitsel
209 Frog Hollow Road
Churchville, Pa. 18966
215-355-5730

AWARDS CHAIRMAN:

W2EIF, Joseph Kilgore
#5 Sunnybrook Court
Stratford, N.J. 08084
609-783-9478

CLUB HISTORIAN:

W3CL, Harry B. Stein

OFFICERS: 1979-1980

PRESIDENT: W3HQT, Bill Olson
VICE-PRES: W3IIT, Harry Brown
COR. SECY: WB3HHO, Paul Randolph
REC. SECY: K3IGX, Dick Boyle
TREASURER: K3GAS, Doc Cutler

DIRECTORS:

W3HMU, Tony Souza (Ex-Officio)
N3AHL, Jim Holt (2 years)
WA3NFV, Dan Mitten (2 years)
WA3JUF, Dave Mascaro (1 year)
WA3WAS, Steve Simon (1 year)

* * *

MONDAY NIGHT NETS:

7:30 PM - 144.2 Mhz AM/FM/SSB
8:30 PM - 50.2 Mhz AM/SSB
9:00 PM - 222.98/224.58 Mhz FM
9:15 PM - 1296.3 Mhz CW
9:30 PM - 432.1 Mhz CW/SSB

NET CONTROL

W2EIF
W3CL
K3GAS
W2EIF
K3IUW

PACK RAT REPEATER - WR3ACD - 222.98/224.58
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ASK US ABOUT OUR WEEKEND.

TONY AND JAN DOUG AND WENDY
W3HMU WB3KES
HARRY AND ROSE DAN AND LUCY
W3IIT WA3NFV

CALENDAR OF COMING EVENTS

Syllabus by Lee, K3MXM

- PRIL April is derived from the Latin word meaning "to open". It denoted the season when the dreary countryside began to bloom and the buds open up.
- 1 How is your humor? Any funny phone calls today?
- 1 First Day of Passover
- 4 Good Friday
- 5-6 ARRL open CD Party - 1/2 CW - See March QST Page 92.
- 6 EASTER SUNDAY
- 9 Pony Express Inaugurated 1860 - Been having troubles with letters to the West Coast?
- 10 Board of Directors Meeting - QTH, N3AHI, Jim Holt, Valley View Road, Coopersburg, Pa. If lost phone 967-3902. An open meeting to all Club members who want to help in the planning and direction of club activities.
- 12 Transverter Debugging Session - 10 AM - QTH K3IUUV
- 12 Kite Flying Contest, Curtis Arboretum, Elkins Park, Pa. If you have been told what to do - here is place and time.
- 12 Ithaca (Cayuga Heights) N.Y. Sixth Annual Electronic Auction at the First Congregational Church, 309 Highland Rd. 11 AM - Talk-in 37/97.
- 13 Penn Wireless Hamfest - National Guard Armory - Roosevelt Blvd. and Southampton Rds. Phila., Pa. 8 AM till 4 PM. Bring your own table and chairs.
- 13 ARRL EME Contest - Part I
- 14 Abraham Lincoln Assassinated 1865.
- 15 Wallet feeling a little empty today?
- 19-20 Trenton Computer Festival - Trenton State College, Trenton, N.J.
- 19 Flemington Hamfest, Hunterdon Central High School, Field House, Flemington, N.J.
- 20 DVRA Hamfest - 112th FA Armory, Eggerts Crossing Rd., Lawrenceville, N.J. Info: DVRA, Box 7024, West Trenton, N.J. 08628
- 22 Primary Election Day
- 24 GENERAL CLUB MEETING - Note Special Change of Date for This One!!!
Southampton Free Library. ARRL Nite - Speaker - ARRL Staff Member, David Sumner, K1ZZ. Special guest Dave Evans, G3OUP, of the RSGB. The Mario Raffle, Frankies Silent Auction, Refreshments. An open meeting to all Amateurs in the Delaware Valley; bring your friends and buddies. Talk it up on the frequencies. Let's fill the room!!
- 26 Daylight Saving Time Begins - Prepare to lose that hour of sleeping time.
- 25-27 The Biggie - Dayton Hamfest.
- 26 LADIES NITE - Warrington Motor Lodge. A great meal. Good fellowship. A chance to show off your new Easter Du's & best of all an Open Bar. Courtesy of the Club. Watch for a special mailing coming along soon. Get your reply back fast.

NEW PRODUCTS OF INTEREST TO HAMS

By Lyn, W3NSI

1. SYNTHESIZED SIGNAL GENERATOR: Vanguard Labs is now building a signal generator covering 100 to 180 Mhz in 1-Khz steps. RF output is adjustable from 50 to 500 MV with a 50 ohm load. Unit operates on 12 VDC at 1/2 amp. Frequency selection and readout is by means of thumbnail switches. Should be useful in alignment work on 144 Mhz and up. Cost \$300. 196-23 Jamacia Ave., Hollis, N.Y. 11423
2. SSB TRANSCEIVER FOR 15 METERS - NCG 15 SB: C & A Electronics Enterprises have just introduced a 15 meter SSB, digital readout T/R unit which should find use on a very popular mobile band. It would also be a compact IF unit for use on VHF inverter units. Power is rated at 15 watts PEP. Frequency is read on the built-in 5 digit LED display. Cost \$268. 22010 S. Wilmington Ave., Suite 105, Carson, CA. 90745.
3. LCD DIGITAL MULTIMETER: DSI Instruments is selling their LC 5000 3-1/2 digit liquid crystal DMM by direct mail and a few selected dealers. The LC 5000 will measure AC or DC to 1000, DC current to 2 amps, and up to 20 Megs of resistance. Basic accuracy is rated at .1%. Unit is factory wired and tested. Cost \$150. 9550 Chesapeake Dr., San Diego, CA. 92123

* * *

VHF/UHF REPORT

By Jo, W2EIF

The best that can be said about the VHF/UHF bands at this period of the year is that there is little activity. The Pack Rat nets are on every Monday evening starting at 7:30 PM local time with 50.125 Mhz, then progressing at 1/2 hour intervals to 144.150, 222.98/224.55 (repeater), 432.110 and finally 1296.025 Mhz. There are other nets on 2 meters during the week and a NC net on 432.09 at 9 PM on Wednesday nights.

It should be noted that February, March and April is the period of lowest Es activity and little can be expected in the way of openings on 6 meters. There was an opening on February 29th involving the East Coast.

There have been some reports of F2 activity on six but it has not included the Mainland U.S. to my knowledge. There was no repeat of the crossband (6 to 10) operation noted in February, 1979, but activity has shifted to other areas judging from reports that KH6IAA has been enjoying a lot of DX to other continents.

There is a theory that Es declines during high sun spot periods. If so, don't look for a good Es season this year, which if on schedule should start about the 2nd week of May.

* * *

JUNE VHF QSO PARTY TEAM CAPTAINS

CHAIRMAN: W3HQT (215-257-1739), WA3NFV (215-536-8490), N3AHI (215-967-3902)

50 Mhz	WA3AXV (215-355-5730), W3KKN (215-659-3485)
144 Mhz	W3HQT (215-257-1739)
220 Mhz	WA3WAS (215-RA 5-1135), N3MW (215-855-5704)
432 Mhz	K3MWV (215-785-0058), WA2DPU (609-386-4504)
1296 Mhz	WA3JUF (215-675-2670)
2304, 3456	
5660 Mhz	W3HMU (215-847-5017)
10 Ghz	WA3NUF (215-757-0814)
Moonbounce	K2UYH (609-771-2487)
Expedition	WA3NFV (215-536-8490), W3ZD (215-675-4539)

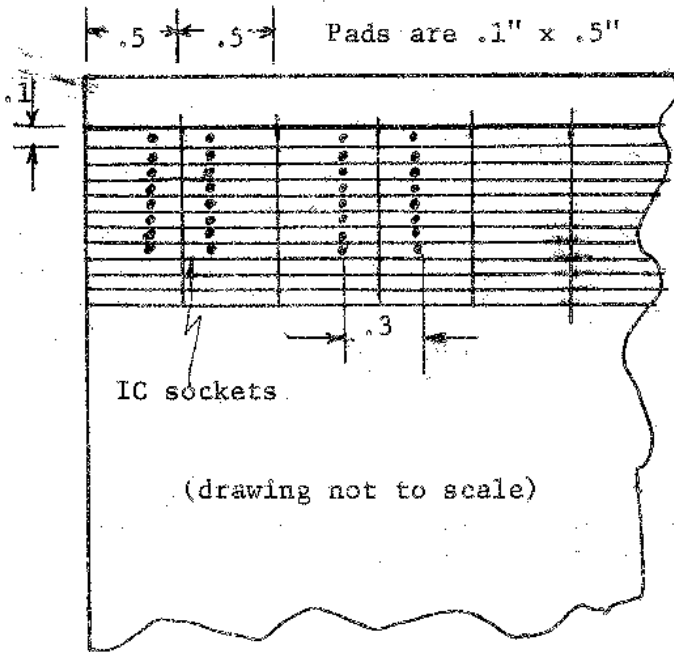
* * *

ARRL BULLETIN NR 32 FROM ARRL HEADQUARTERS NEWINGTON CT MARCH 12, 1980 TO ALL RADIO AMATEURS BT. The FCC has handed down a decision in the club, RACES, and military recreation station proceeding, Docket 21135. The Commission has decided that it will no longer license any new repeat new club, RACES, or military recreation stations. However, FCC will continue to accept applications for renewal and modification of presently licensed stations. This decision, in effect, makes the temporary freeze imposed on the filing of applications for new club, RACES, and military recreation stations a permanent rule. Details will appear in May QST AR.

HOMEBREW BREAD-BOARD FOR IC's
by Dave Maacaro, WA3JUF

Since commercial bread-boards are expensive, they must be reused for different projects, and they are not easy to wire. The following description doubles as a proto-board and a finished project board.

After laying out the .1" x .5" pads on the board with pencil, score away the copper using a straight edge and a scoring knife. This knife is the type used to take a "V" cut out of aluminum siding. The copper is cut away neatly and pads are left that are then drilled for sockets as shown. Clean with steel wool and solder sockets in place. Point to point wiring is easy from then on.



Drill holes for sockets and mount
Solder #32 wire to pads, point to point

IC sockets.

(drawing not to scale)

VISITORS - MARCH 20, 1980 MEETING

N2BKK - Eric Sjogren, Staten Island, N.Y. VE7BUT/W2 - Richard Chalk, Cherry Hill, N.J.
WA2ZBE - Walt Persans, Staten Island, N.Y. WB2GEZ - Marty Hackett, Crosswicks, N.J.
WB2CPA - Jerry Pulice, Staten Island, N.Y. WB3EFO - Ed Lee, Huntingdon Valley, Pa.

* * *

TID BITS

Beth Wade, XYL of Paul, WA2ZZF wrote a very entertaining article about the 1970 1296 Expedition now appearing in the April issue of Hamradio Horizons. The East Coast VHF Society traveled to Horseneck Beach, Mass. while the Pack-Rats went down to Cape Hatteras, N.C. Unfortunately, the record was never broken at that time.

A friend of the Pack Rats, K3KOH, Tony Millard is in the Warminster General Hospital, Room 354, Newtown Road, Warminster, Pa. 18974. Drop in to see Tony or send a card. He needs your cheer.

K3GFF, George Korn couldn't make the March meeting to be voted on because he had undergone surgery. Now is home recuperating. See you next month George.

Jack, W2AXU reports the monthly mean number for February 1980 was 159.3.

* * *

MORE OF LEE'S WISDOM

Old hotheads never die; they just lose their cool. A bachelor is a guy who'd rather not knot. A political moderate is a man who makes enemies left and right. Arthritis is twinges in the hinges. There is a new Chinese diet - eat all you want, but use just one chopstick. Inflation is when, after you get the money to buy something - it just isn't enough.

TID BITS

Antenna casualty from recent heavy winds at the QTH of WA3HIT.

John, K3KTY recently made a fast trip to Camden, N.J. crossing the Ben Franklin Bridge - I have the cards to prove this event.

Abel, K3LYB, came out to our March meeting and brought along a unique lightning protector made by GE. This device should provide protection of solid-state devices used in our Ham shacks as well as home equipment such as stereos and TV sets.

Many thanks to Jerry Pulice, WB2CFA on his fine presentation of European TV DX during the recent past openings on VHF. He was accompanied by WA2ZBE, Walt Persans (Past Pres. of the Staten Island ARA and Editor of their club paper - "SIARA News") and Eric Sjogren, N2BKK. All are members of the Staten Island Club.

For you 2 meter transverter bugs - there will be a debugging session on April 12, 1980 at 10:00 A.M. at the QTH of Bert Soltoff, K3IUU in Huntingdon Valley, Pa.

* * *

ARRL BULLETIN NR 29 FROM ARRL HEADQUARTERS NEWINGTON CT MARCH 11, 1980 TO ALL RADIO AMATEURS BT
An apparent threat to the Amateur band at 220 MHz has disappeared. On March 10, FCC issued a Third Errata to Docket 801, a proposal for a new automated inland waterways communication system. The Errata says in pertinent part, quote In paragraph 26 the phrase, 216 to 225 MHz band, is changed to read, 216 to 220 MHz, to be consistent with the document as a whole unquote. No other references to the Amateur band appear in the proposed rulemaking. There appears to be no reason now for amateurs to file comments in opposition to the waterways proposal AR.

* * *

ANNOUNCING THE SIXTH ANNUAL EASTERN VHF/UHF CONFERENCE

May 16-18, 1980 The Sheraton Inn & Conference Center

I-495 at Route 111, Boxborough, Mass. 01719

CONFERENCE HIGHLIGHTS:

- *Hospitality Room Friday evening (May 16)
- *Technical talks starting at 9 AM Sat. featuring antennas, propagation, receiver design, OSCAR Phase III, transmitter design and microwave circuitry.
- *Banquet and guest speaker Sat. evening.
- *Noise figure measurements thru 2300 MHz on Sun. morning
- *EME panel discussion on Sun. morning.
- *70 CM antenna gain measuring on Sun. afternoon.
- *Technical exhibits (bring your latest project and share your ideas with others)
- *Early registration door prizes and drawing.

REGISTRATION: \$10.00 by mail (May 1 deadline) or \$15.00 at the door.

ACCOMODATIONS: Everyone must make their own reservations. Rooms are available at the Sheraton Inn (617-263-8701). Singles are \$42.00 and doubles are \$46.00 but you must specify the conference name to obtain these rates.

MEALS AND BANQUET: Meals are available at the Inn. The Sat. evening banquet featuring Roast Prime Rib of Beef au jus (11 oz.) with all the trimmings will cost \$16.50 and reservations must be made with the conference registration committee by 1 May 1980. Refunds are available but only if we receive notice by that date.

NOTE: This conference is only recommended for the serious VHF/UHF person.

PLANNING COMMITTEE: W1JR (prog.), K1LOG(reg), K1LPS (prizes) & W1HR

Preregistration

Name	_____	Call	_____	Street	_____
City	_____	State/Prov	_____	Zip Code	_____

Number of registration tickets _____ at \$10.00 (\$15.00 after 1 May)

Number of Banquet tickets _____ at \$16.50 (not available after 1 May)

Total enclosed \$ _____

Make all checks out to Eastern VHF/UHF Conference and Mail to: Rick Conno, K1LOG, 3 Pryor Road, Natick, Mass. 01760

SWAP SHOP

WANTED: Source to buy RG-141/U teflon coax for 1296 Mhz loop Yagis.

CONTACT: John Allen, W3CXU
Phone: 215-886-4109

FOR SALE: Must sell - Heathkit SB-300 w/all filters. SB-400 w/xtal Pack (upgrades to SB-401) incl. manuals, microphone, plus related hardware. \$395. Micro-computer system - Ohio scientific Challenger 2P, 28K MEM., RS232, 150-9.6K baud, manuals & software; video monitor - 1 yr. old. \$1050.

CONTACT: Bruce Loss, WA3YUE
3747 Warfield Drive
Huntingdon Valley, Pa. 19006
Phone: Work - 215-657-4230

FOR SALE: Heath SSB 110A - 6 meter sideband/CW xcvr, p/s & speaker, D104 mic. complete \$285.

CONTACT: Pete Shavney, WA3OVH
Phone: 215-886-1859

FOR SALE: Morse 8 track stereo tape cartridge deck - \$25. Heath AD 2022 matrix decoder \$20. Heath AR15 AM-FM solid state stereo rcvr w/manual \$80. Heath AA22 solid state stereo amplifier - \$50. Many turntables, records & tapes.

CONTACT: Doc Cutler, K3GAS
Phone: 215-635-1078

FOR SALE: Drake TC-6 and SC-6/PSI 6 mtr. xverters, in good shape \$300.

CONTACT: Jay, WA2RYE
Phone: 201-244-7623

FOR SALE: Cushcraft 1/2 wave 6 mtr. FM vertical; Ameco TX-62 w/VFO; HB 220 Mhz CW xmtr; MFJ speech processor; Heath HW-16 with HB VFO; Heath VTVM; Palomar RX noise bridge.

CONTACT: Ric Janssen, K3QQ
Phone: 215-355-1980

FOR SALE: Panasonic RF 2800 Rcvr. double conversion, gen. coverage 3.2 to 30 Mhz. Digital readout. AC or batt., great for swl. like new - \$190. Yaesu FT620B - 6 mtr. CW, SSB, AM xceiver. Approx. 14 watts out with 6Khz AM filter and marker. very good shape, \$295. Echo 70 432/435 SSB/CW xceiver w/11 el. beam; good shape \$250. Trade possible - need good 220 FM rig.

CONTACT: Ed, N2AQJ
Phone: 609-386-5865

FOR SALE: Estate of W3SMK
Heath SB102, xcvr. \$400. Heath SB-600 SPKR.
Heath HP-23 P.S. (inspkr housing) \$70.
Heath SB-610 Monitor \$90. Heath HDP-21A Desk mike \$30. Heath HN-31 Antenna w/oil \$11. Heath HD-15 Phone patch \$25. Heath AM-102 SWR bridge \$25. Heath 1M-11 VTVM \$30. Heath AP-2 Ref. power SWR bridge. CDE-Ham CD44 rotor \$126. Kenwood TS700A-2 meter All modes \$665. KLM 140 2 meter Amp. (10-140BL) \$185. VHF PS25C P.S. 20 amp. \$150. 220 Mc 5/8 wip w/2 EIF mag. mount. Hallicrafters - HA6-6M transverter and Hallicrafters P-26 Power Supply \$100. National 190 Rcvr w/speaker \$150. Johnson Viking 11 xmtr. Johnson Viking 11 VFO Model 122. Johnson Viking 6N2; Johnson Viking 6N2 VFO. Astatic Mike JT30 & stand; trim head set. Swan SWR-1 SWR meter \$22. Drake WV4 watt meter \$84. NPC electronics 103RA P.S. (13.5 @ 4 amp) New!! Maverick Filter (6 meters) w/power indicator meter \$35. (Gavin Instruments, Inc.) B&W - antenna rotary with 5 pos. 6" speaker in wood box. Key w/heavy base. R48 220 rcvr.

CONTACT: Horace Deacon, W3AJF
Phone: 215-843-1808

* * * * *

THE FOLLOWING NOTE FROM SALLIE - XYL - W3SMK

Dear Doc: (If I may call you that). May I thank you and all the warm, dear friends of Jim's at Mt. Airy Pack Rats for the lovely card.

It was marvelous to see all those who were able to make the service on such short notice, and it was much appreciated.

I don't have to tell you how much ham radio and the Pack Rats meant to my dear Jim. In the last years, it is what seemed to keep him going. He had so little left he could do.

So, please thank each and every one.

73s, Sallie, W3SMK/XYL

March 18.

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NOTICE

K3QQ will be operating QRP again this year on Field Day. Any amateurs, not necessarily Pack-Rats, who would like to participate should contact me at 215-355-1980.

* * *

ANNOUNCEMENT

The North Carolina State University ARC, W4ATC located in Raleigh, N.C. conducts a 70 CM net each Wednesday night at 9:00 PM on 432.090 Mhz. They are getting into our area fairly often. They run a K2RIW kilowatt into 4 K2RIW 19 element Yagis up at 100 feet - fed with 3/4" catv hardline. Keep a lookout for W4ATC on Wednesday evenings.

THE FIFTH
TRENTON COMPUTER FESTIVAL TCF-80
April 19 & 20, 1980
at TRENTON STATE COLLEGE
Trenton, New Jersey

10:00 A.M. to 6:00 P.M. SATURDAY, 19th
10:00 A.M. to 4:00 P.M. SUNDAY, 20th
Super Outdoor Flea Market; Indoor Commercial Exhibit Area; Forums, Talks & Seminars, Convenient to N.Y. PA., MD. & DEL. FREE short courses on Sunday. Hundreds of Door Prizes. Banquet Saturday Night. For additional information call: 609-771-2487. Admission \$5 - Students \$2. Tickets available only at door. SPONSORED BY: Amateur Computer Group of N.J. Philadelphia Area Computer Society. Trenton State College Digital Computer Society, Dept. of Engineering Technology, Trenton State College. I.E.E.E., Princeton Section. Banquet \$10. Avoid disappointment - purchase tickets early on Saturday at the door.

* * *

DAYTON HAMVENTION '80
Presented by The Dayton Amateur Radio Association
April 25, 26 and 27, 1980 at the
Dayton Hara Arena & Exhibition
Center

International Friendship Via Amateur Radio. The Dayton HAMVENTION is the world's largest ham radio gathering. You are invited to meet and hear outstanding authorities in all facets of amateur radio. Exhibitors will be bringing their latest equipment for display and will be pleased to answer any questions about their wares. The prizes are the best ever. You've never seen prizes like these at any hamfest. And the flea market...you've got to see it to believe it. If you can't find it at Dayton, you'll never find it. An excellent program of activities for the women has been planned. Bring your wife and enjoy a memorable weekend in Dayton.

* * *

FROM HR REPORT NUMBER 295 MARCH 21, 1980

COMPLAINTS TO THE FCC ABOUT AMATEUR operations have tripled in the past year, and though the Amateur service is still considered to be probably the best in compliance of all the services administered by the Commission, this rapid increase signals a very alarming trend that shouldn't be allowed to continue. The increase lies principally in two areas; net operations on the hf bands, and on repeaters. In both areas the problem is mainly one of jamming, willful and deliberate interference, an area that's been widely publicized since Southern California Amateur enlisted the aid of California Congressman James Corman last summer (HRR 265).

A Major Attack on the interference problem, concentrating in those two areas and likely enlisting the active aid of Amateur observers, is now being prepared within the FCC. Final details of the plan are now being worked out between the participating bureaus, and could be announced as soon as mid April.

INSTRUCTORS CURRENTLY TEACHING Amateur Radio license classes should write the FCC immediately to ask that implementation of new exams, now slated for May, be delayed until after the current semester ends (mid June, for most schools). Such a delay would be much fairer to students presently taking license preparation classes, whose studies have been based on the present FCC study guides and exams. Thanks WB6NOA.

SPECIAL DAYTON HAMVENTION COVERAGE is planned by HR Report again this year. With the Hamvention firmly entrenched as the world's largest and most influential Amateur Radio convention, it attracts more new products and ideas than any other affair. Our April 18 issue will be heavily devoted to a preview of and guide to this year's new products, while we'll take one of our rare "vacations" the following week while most of our staff are at Dayton, and bounce back in the May 2 issue with a staff report on all that went on at Dayton that weekend.

* * *

DUES ARE DUE

Its the time of the year for a new start. Our comradery, technical ability and team effort is exemplified by our logo the smiling "Pack-Rat". The dues structure has remained stable for over 15 years - regular membership \$8, retired status \$4, student grade \$2 - you can't beat that for what you get in return. Do you know any young VHFer's out there - invite them to join up the foremost VHF group in the country. Come on gang - pay up and join up!!

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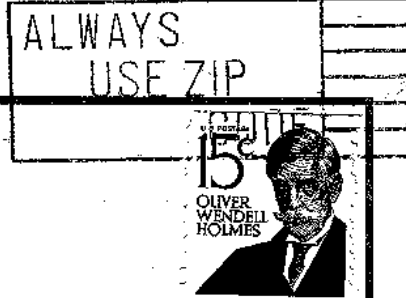
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