

PACK RATS'



PACK RATS

CLUB CALL: W3CCX

MT. AIRY VHF RADIO CLUB, INC.

CHEESE BITS



MT. AIRY VHF RADIO CLUB, INC., PHILADELPHIA, PA. ARNS
50.2, 144.2, 432.1, 1296 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

VOLUME XXI

JUNE, 1979

NUMBER 6

THE PREZ SEZ

Where do all the Pack Rats go? This is a question that is asked from time to time when an extremely active club member seems to disappear. He doesn't show up at most club activities, nets, meetings - where did he go? Do not fear, this member is only in the low point of his activity cycle - sort of an enthusiasm null. The more intense the member is about his hobby, the higher the peaks - and the deeper the nulls. Few of us can keep a constant high activity and enthusiasm level, especially with other outside interests and various high pressure radio events spaced throughout the year, which tend to cause the familiar "burn out" situation. For instance, take this familiar occurrence: The two weeks before the June Contest, Joe Pack Rat is on the air all the time. He spends every free minute preparing his station for the event - he stays up all night building finals, antennas, preamps, putting the last finishing touches on minutes before the start of the contest. After the event is over, Joe takes everything home, throws it in a pile on the skack floor along with a half eaten liverwurst sandwich, and a bunch of empty soda cans, and doesn't even go in there for five weeks. After a while, he turns on the 220 box in the car on the way to work (just to listen) and hears that 432 is wide open to the midwest on the biggest tropo opening in years! He runs home to find the 432 rig in the middle of the floor with a moldy liverwurst sandwich in the back, but in a couple of hours the station is back on the air, and so the cycle starts up - out of the null towards the next peak. Not every Pack Rat goes through such extremes in his enthusiasm cycle, but we all do it to some degree. So don't be concerned, Joe Pack Rat will be back - most likely exactly when he's needed the most!

Those members who were not at the null of their activity cycle and attended the May meeting were treated to a lively ARRL night where Tom Frenaye, K1KI, ARRL Contest Chief, gave an interesting report on how a contest is scored and fielded many questions (and complaints!) about ARRL contests. I think Tom went home to Newington with a few suggestions to make to the League - and the Club certainly learned a lot from him.

The June meeting is elections and the floor will be open for nominations right up till poll time. Good time to nominate your friends (or enemies) for the position of your choice. Exercise your Pack Rat right to vote! See you in June.

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.

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609-783-9478

CLUB HISTORIAN:

W3CL, Harry B. Stein

OFFICERS: 1978-1979

PRESIDENT: W3HQT, Bill Olson
VICE-PRES: WA3NFV, Dan Mitten
COR. SECY: WB3HHO, Paul Randolph
REC. SECY: K3IGX, Dick Boyle
TREASURER: K3GAS, Doc Cutler

DIRECTORS:

W3HMU, Tony Souza (Ex-Officio)
W3IIT, Harry Brown (2 years)
WA3JUF, Dave Mascaro (2 years)
K3MWV, Dick Pierce (1 year)
WB2SZK, Randy Bynum (1 year)

MONDAY NIGHT NETS:

144.2 MHZ 7:30 PM
50.2 MHZ 8:30 PM
221.4/224.58 MHZ 9:00 PM
1296.3 MHZ 9:15 PM
432.1 MHZ 9:30 PM

NET CONTROL

W2EIF
W3CL
K3GAS
W2EIF
K3IUV

FRIDAY NIGHT ATV NET:

439.25 MHZ 7:00 PM

PACK RAT REPEATER - WR3ACD - 222.98/224.58

Churchville, Pa.

1-302-478-2757

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and
ADVANCED
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K3WAJ

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"Associate Store"
537 Easton Road
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Bruce Clark

CALENDAR OF COMING EVENTS

Syllabus By Lee, K3MXX

JUNE:

- 1 National Dairy Month - drink up!!
- 3 For our Southern readers - Jeff Davis' Birthday
- 3 Manassas, Virginia Hamfest
- 3 Islip Hamfest - Islip Speedway - Islip, Long Island, N.Y.
- 4-7 National Computer Conference - New York City
- 9-10 VHF QSO Party, Hilltown, Pa. Start 1900 UTC 6/9 to 0600 UTC 6/11
Chairman, N3AHI, Jim Holt. Phone: 967-3902. This contest is our yearly club effort using the club call W3CCX/3 and is an all out effort to make a sweep of both the January and June contests. Much work has already been accomplished, but much more is to be done. Contact Jim and offer your services as an operator, fixer or a plain "hey you" - for all jobs are important and have to melt into the club effort. Advance parties will be at the site. (Rt. 152 - Limekiln Pike, Hilltown, Pa.) from Friday morning on - June 8th.
- 9 First Horn and Hardart Automat opened 1902. Who don't remember the 5¢ coffee from those funny spouts...
- 10 SPARC Hamfest - Stockton State College, Pomona, N.J.
- 14 FLAG DAY - Display America's symbol proudly
- 14 Board of Directors Meeting - QTH, WA3WAS, Steve, 8506 Kendrick Place. Directors and interested parties invited.
- 16 Henry Ford sells his first car - 1903
- 16 Raritan Valley Hamfest - Columbia Park, Dunellen, N.J.
- 17 Happy Father's Day - Take it easy - be King for the day. Let the gang do the chores!
- 17 Schuylkill ARC Hamfest - Barnesville, Pa.
- 21 General Club Meeting - Southampton Free Library, Street Road, Southampton, Pa. 8:00 P.M. Election Nite - Nominations may be made before the vote. Special Feature - A select selection of Doc's films and slides of oldies and goodies. Many have not been on display for nigh on 20 years!! The Mario Raffle, Frankie's Silent Auction, Refreshments. An open meeting to one and all. Bring your friends!!
- 21 Summer Begins - Celebrate with a barbecue.
- 23-24 ARRL Field Day
- 29 - July 1 YLRL - 40th Birthday Party and Get-to-gether. Holiday Inn, 4th & Arch Sts., Phila
Info - W3AAU, 215-HO 4-2665.

GRAFETTI FROM OUR FAVORITE WALL

By Lee, K3MXX

The tenor of a flea market -- A bargain is a transaction where two persons are sure they got the better of each other... Food prices are so high vegetarians are starting to beef. Conserve energy - use 220 volt lines as often as possible in your shack.. A new Net - The Green Thumb Net is on the air. Are you a gardner or do you just have a flower pot on the window sill. You are welcome to join in 50.600 on Tues. Evenings at 8:30 P.M. local time. The net control is Hugh, WB3KNU (A many time club visitor) located in Huntingdon Valley.
de The Hetrodyne

NEW PRODUCTS OF INTEREST TO HAMS

By Lyn, W3NSI

1. DIGITAL VOM: Sinclair is selling a new DVM thru the Starshine Group, which should find application in many hamshacks. The DM 235 is very thin, for carrying in a brief case, and has a four digit readout using LEDs. The unit is portable and can be operated on four "C" cells, or for bench use, an AC adaptor is available. Input Z is 10M, and resistance measurements up to 20 megs are possible. Price \$90, Starshine, 924 Anacapa St. Dept. 636, Santa Barbara, California 93101

2. TWO METER MOBILE ANTENNA: SST Electronics has just started selling the new HA-2 Horizontal antenna for use with the new SSB rigs. It is a folded 1/2 wave dipole antenna formed into a square. An adaptor is available to use the antenna in the vertical mode for FM. VSWR is rated at 1.5 or less over a 3.5 Mhz bandwidth. Price \$40, P.O. Box 1, Lawndale, California 90260

3. LOW FREQ. PRE-SCALER: DSI now has a prescaler for use with a standard counter. Unlike the prescalers hams normally use to go to higher frequency ranges, this unit, the AS 100X converts low frequencies up to the counter range. It can be used for audio or RTTY and PL adjustments. The Hi Z input will take sigs from 10 Hz to 10 KHz and multiply by 10 or 100. Price \$50. DSI Inc. 7914 Ronson Rd. No. G, San Diego, California 92111

4. Hamtronics, Inc. has just announced an exciting new series of VHF FM Receiver Kits. The model R75 Receiver Kit is the fourth generation receiver by Hamtronics, and it incorporates all the design features of the previous designs plus some new ones. Chief feature of the R75 series is a wide range of selectivity options. Four models, with difference crystal filters, provide the optimum selectivity for each type of service, ranging from ± 30 kHz at -60 dB for weather satellite reception to ± 15 kHz at -100 dB for demanding split channel repeater service. Other features include increased sensitivity, smaller size, and easy construction. The 4x4 1/4 inch receiver consists of two pc boards, allowing for mounting flexibility. Kits are available for 10M, 6M, 2M, and 220 MHz ham bands. They can also be used on adjacent commercial and weather satellite frequencies. Price of the R75 Receiver Kit ranges from \$69.95 to \$99.95, depending on crystal filter option. For more information, including a catalog on the complete line of Hamtronics Kits, call 716-392-9430 or write HAMTRONICS, INC., 65F Moul Rd., Hilton, N.Y. 14468. (For overseas air mail delivery of catalog, please send 4 IRC's.)

* * *

VHF/UHF REPORT

By Joe, W2EIF

The 6 meter band started to open as usual this year during the second week of May. So far, only the South and around to Arkansas have been heard here. When one hears what some of the stations in the Southwest have been working the last few months, it sure makes what the East Coast has been hearing and working sound like nothing, which it was!

The 2 meter band has shown activity, particularly in the 144.2 Mhz area. There have been no aurora s in the last month of any consequence. Let us hope that the E_s season now starting will be good this Summer - and make up for some of the poor DX that we have not had the past few months.

* * *

ANOTHER NET: Bob, K2BJG, President of 550 ARC, invites Pack-Rats to check in on a SSB Net on Tuesday evenings at 2100 hours local time on 144.225 Mhz.

* * *

VOTED TO MEMBERSHIP

WB2VLA - J. David Power XYL - Nancy - N2AII
25 Van Duyn Drive
Trenton, N.J. 08618
609-882-1040

6METER DX

The following activity is planned for the June 9 & 10 Contest weekend. This information has been passed thru many filters so it may not be entirely accurate, but at least you will have an idea of what to look for:

- 6-13 June VP2V(DL?) British Virgin Isl. WB2RLK
 KG4BN, Guantanamo W2BN
 XE2BC, Mexico WB6NMT
- 9-10 June: VE3BFM/VE8 James Bay, 6M & 2M

Some further activity to look for:

- 13-28 June: VP2MX, Montserrat, WB2RLK
- 28-(?) June: FPQ(?) St. Pierre, K1TOL/WA2PPV
- 28-(?) June: FPQ(?) St. Pierre, VE3ECP

The following stations are known to be QRV on 6 meters:

- J6LGG, St. Lucia Isle HI8WPC, Dominican Republic
- J6LGG, St. Lucia Isle VP9WB, Bermuda Isle
- HH2PR, Haiti KV4(Various) Virgin Isle

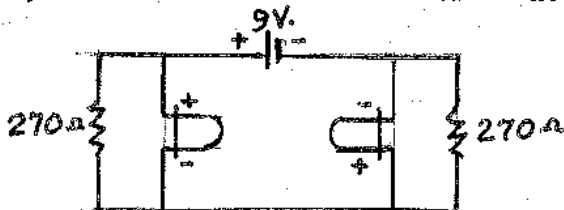
Good luck, Good DX

6 Meter Information Net: Every Tuesday, 2300Z, 3820 Khz + QRM
 NCS: K1ZFE & WB2RLK/VE1
Thanks, Ron, WA3AXV.....
 * * *

A STORY ABOUT A "FLASHER"

By Doc, K3GAS

One day, while at Radio Shack in Abington, I saw a tiny two light "FLASHER". The manager is Rick, WA3HBR and he told me that a new item, now in stock, was a "FLASHER" LED.



LED
 □ FLAT SIDE - CATHODE (-)

I bought two of them and hooked up as the schematic above. Lo and behold, it works, with the Led's flashing at random. The Led No. is 276-036. You can be sure that I am going to get more of them: A single "FLASHER" Led will also work. Put them in your badge with a wire to the 9V battery in your pocket.

* * *

VISITORS AT THE MAY 17, 1979 MEETING

- K1K1 - Tom Frenaye, Unionville, Ct. N2AQJ, Ed Morgan, Burlington, N.J.
- WB3EFO, Ed Lee, Huntingdon Valley, Pa. WB3KNU, Hugh, Huntingdon Valley, Pa.

NOMINATED TO OFFICE FOR THE COMING YEAR

- President - William Olson, W3HQT Rec. Secretary - Richard Boyle, K3IGX
- Vice-President - Harry Brown, W3IIT Steven Simon, WA3WAS
- Cor. Secretary - Paul Randolph, WB3HHO Treasurer - Doc Cutler, K3GAS
- Directors for a 2 year term: Daniel Mitten, WA3NFV
- James Holt, N3AHI

Nominations remain open and may be made from the floor at the June 21, 1979 meeting before a vote is taken.

* * *

Let Your Voice Be Heard!

6, PM. JULY 21st TO JULY 22nd, 9, PM, Local Time.

VHF SPACE NET
CONTEST

COMMEMORATES 10-th ANNIVERSARY APOLLO II, MAN'S FIRST LANDING
and WALK ON THE MOON.

ACTIVITY, ALL VHF and UHF FREQUENCIES. (NO REPEATERS)

EXCHANGE, SIGNAL REPORT and ZIP CODE or PO LOCATION (outside USA)
POINTS, EACH CONTACT WORKED IS WORTH 2 POINTS, SAME STATION MAY
BE REWORKED ON DIFFERENT BANDS, also IN OTHERS MODES
FOR ADDITIONAL 2 POINTS.

MULTIPLIER, EACH DIFFERENT ZIP CODE is 1 MULTIPLIER, also PO
LOCATION is used as a MULTIPLIER outside USA.

SCORING, TOTAL ALL CONTACTS MADE, AND MULTIPLY BY THE TOTAL
ZIP CODES and any PO LOCATIONS.

CATEGORIES, CLASS I, 100 to 500 WATTS
CLASS II, 25 to 100 WATTS
CLASS III, 5 to 25 WATTS
CLASS IV, 1 to 5 WATTS
CLASS V, XYL only, ANY POWER.
CLASS VI, CLUB PARTICIPATION.

AWARDS, HIGHEST SCORE IN EACH CATEGORY WILL BE PRESENTED WITH
TROPHY PLAQUE,

SECOND AND THIRD PLACE IN EACH WILL RECEIVE SPACE
CERTIFICATE.

MAILING DATE ON ALL LOGS, AUGUST 17, 1979.

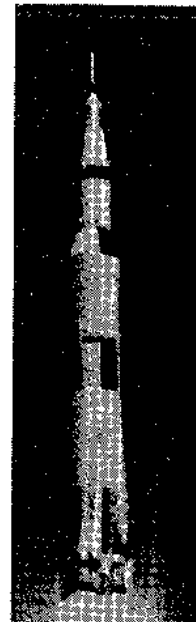
VHF SPACE CENTER, K4AWS
BOX 15, SUMTERVILLE, FLA.
33585

THOSE WORKING K4AWS, WILL BE ENTITLED TO SPECIAL
CERTIFICATE.



VHF SPACE NET commemorating "Man's Historic
Decade in Space"

July 20 - 21, 1969



SWAP SHOP

FOR SALE: Walkie Talkie- Standard 146 - new model 2 mtr. FM - 5 channels - Touch Tone - Nicad Batts and charger. Extra Nicad batts. Rubber Ducky - Telescoping Antenna. Leather case holster - make deal.

CONTACT: Charley Zeager, WA3OQR
Phone: 215-698-1060

FOR SALE: Midland 13-510 Synthesized 2 mtr. transceiver. 144 to 148 Mhz - outputs 1,10, 25 W. with vista 111-R power supply - mike and manual. Brand new - \$300

CONTACT: Earl, WA3QWO
Phone: 215-343-0459

FOR SALE: 1296 Mhz tube type AM/CW - 50 watt station - \$300

CONTACT: Carl E. Wikstrom, W4JFU
RFD 1, Box 269, Onancock, Va. 23417

FOR SALE: 8 el KLM 6 meter beam with stainless steel hardware & KLM balun.

16 el KLM 2 meter beam with stainless steel hardware & KLM balun.

14 el KLM 220 beam with stainless steel hardware & KLM balun.

16 el KLM 432 Mhz beam with stainless steel hardware & KLM balun.

Stuart Electronics tower tuner for 160-80 & 40 mtrs. Waterproof for outdoors & for any tower.

CONTACT: Richard H. Pierce, K3MWV
Phone: 215-785-0058

FOR SALE: SB-303 Rcvr. 80 thru 6 Mtrs. w/manual. Good condition - \$225

CONTACT: Coleman Beeson, W3EY
Phone: 215-887-1084

FOR SALE: Kenwood TR-502 - 28 - 144 Mhz transverter with preamp. \$220. Drake 2B Rcvr with 2-BQ Q-multiplier \$190. Heath IM-1B-VTVM \$25. Viking phone patch. Brand new in box \$40.

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

FOR SALE: Johnson Valient - 160-10 mtrs. CW/AM. Excellent condition. \$75

CONTACT: Bill Benner, W3KM
Phone: 215-GL 5-5754

FOR SALE: Kenwood Model TV506 - 6 mtr. transverter. Super mint \$225. Kenwood Twins - T-599D and R-599D with speaker. Mint. \$650

CONTACT: Bill, WA2DPU
Phone: 609-386-4504

NEW CATALOG: (Catalog is presently at printers. We'll be glad to send you one if you like. We got the press release to you early enough so catalog wouldn't be too old when announcement appears in magazine. Thanks for your consideration). Hamtronics, Inc. has announced a new 1979 catalog, which is yours for the asking. The 24 pg. catalog features many types of kits of interest to the radio amateur or two way shop. One interesting new product contained in the catalog is a new generation VHF FM Receiver kit with 4 different selectivity options to suit any application. Other kit products include VHF Transmitting & Receiving Converters, UHF Receiving Converters, FM Transmitters & Linear Power Amplifiers for vhf & uhf, Receiver Preamps for vhf & uhf, and RF Probes for vtvm's.

For your Free copy of this informative catalog, call 716-392-9430 or write HAMTRONICS, INC., 65F Moul Rd., Hilton, N.Y. 14468 (For overseas airmail delivery, please send 4 IRC's.)

* * *

TID BITS

Doc Cutler, K3GAS, attended the meeting of the Pa. Dental Association as a delegate from the Phila. County Dental Society. The meeting was held at the Tamamint Resort and Country Club in the Poconos of Pa. from May 20 to May 23, 1979.

Congrats to Charley, N3MW on obtaining his WAC certificate.

Jim Perkins, W3SMK home from the hospital - goes on kidney dialysis two days a week. A liberty bell better than a bad pan antenna, Jim!

Gordon, K3VYG finally located some sticky fly paper - source, K3IUV.

Herm, K3G0Z not feeling too good lately. Lets hear your happy voice in there soon.

W2AXU reports the Zurich sunspot number for April is 102.8. Sept. 1978 smooth # 108.4

K3QQ worked KL7AF on 75 SSB using 10 watts output to complete Worked-All-States on 75 SSB, all in Extra Class Band, all with Extra Class Calls, all with 10 watts output or less.

Answer to last month's quiz question: Lowest probability of survival is by loading one bullet, spinning the cylinder, loading the second bullet, spinning the cylinder, and pulling the trigger twice.

Last call for Volunteers: K3QQ/3 Field Day (QRPP) Expedition. June 23 & 24 Equipment, batteries and operators welcome. Contact Ric, K3QQ, 355-1980.

TWENTY YEARS OF AMATEUR RADIO

C.B. DESOTO

QST JUNE 1934 (CONT'D)

War had begun in Europe. The U.S. Government commenced bolstering our national defense. The A.R.R.L. offered the services of its more than six hundred members to the Secretary of the Navy and the Secretary of War. The offers were cordially accepted, pending necessity.

By January 10, 1916, league membership had jumped to 961, in contrast to 635 on December 1.

Amateur radio was booming!

George Washington again fathered a new movement, in 1916. Perhaps it would be more accurate to call him godfather. It was the A.R.R.L.'s first attempt as a nation-wide relay. Kirwan, 9XE, of Davenport, Iowa, inaugurated the first Washington's Birthday Relay with a message from Col. W.P. Nicholson of the Rock Island Arsenal addressed to the governors of every State in the Union, and President Wilson. The Pacific Coast got the message in fifty-five minutes; the Atlantic coast, in sixty; New Orleans and Canada each has it in twenty minutes.

Visionaries began to dream of a transcontinental message being sent with but two intermediate relays!

Throughout the early months of 1916 strenuous efforts were made to establish reliable trunk line networks embracing the entire United States. By the end of the year six major trunk lines had been established; four were functioning regularly under trunk line managers Hebert and Mathews.

At the end of the fiscal year for 1916 there were 5,424 regularly and specially licensed amateur stations in the country. The value of the apparatus in use at these stations was estimated at \$10,000,000.00.

Amateur radio was booming!

QST grew in fame and fortune. History:

T.O.M.'s "Rotten" articles. . . .

Preparedness Day bombing in San Francisco prevents San Francisco Radio Club from parading

A San Antonio amateur is arrested for interfering with the Fort Sam Houston station. . . .(incredible-but then, after all, this was a time of war?)

Navy Department stations test with amateurs....(Think that didn't mean something? Well, it did!)

Static breaks up the first transcontinental relay attempt, January 4, 1917. . . .

But on January 27th it was done. The Seefred Brothers, 6EA, started the message, which hopped by quick jumps through three intermediate stations to IZM, Mr. Maxim's station in Hartford. On February 27th, the route was covered two-way in a single night, 2 PM's message travelling to 6EA and a reply returned in one hour and twenty minutes.

A legislative menace loomed in Washington. With the backing of League members now numbering thousands, President Maxim went to Washington and successfully combated the Padgett bill, H.R. 2573. Times were trying, heads were hot, natures were crotchety - but amateur radio was preserved.

The first months of 1917 saw amateur radio poised for tremendous strides in development. But in April --

War!

"By virtue of the authority given the President of the United States" all amateur stations were closed, antenna wires lowered, all apparatus rendered inoperative.

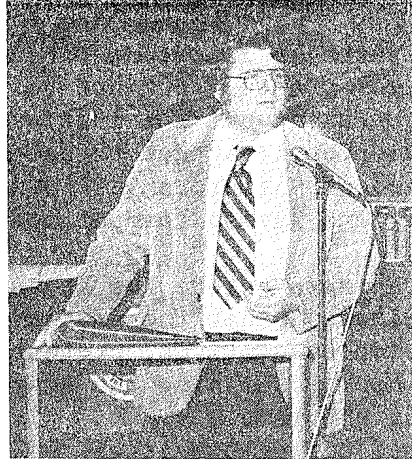
Volunteers!

At first, five hundred. The Navy Department requested the aid of the A.R.R.L. in enlisting that number of skilled instructors and operators -- in ten days. A last broadcast went over the silenced A.R.R.L. Message routes. The Navy got its men.

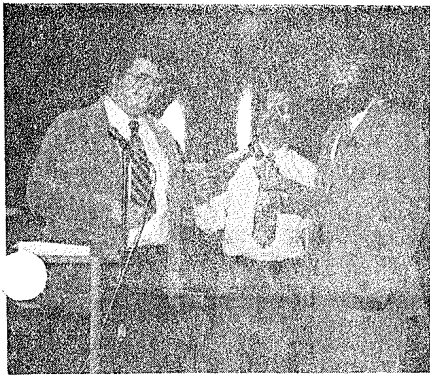
The July, 1917 issue of QST begged for 2000 more men. A lingering hope that dummy antennas might be permitted was crushed by officialdom. QST stopped publication with the September issue. The editor had gone to war.

Before it was over, nearly 4000 amateurs had joined the Army and Navy, the most efficient wireless signal corps possessed by any of the combatant nations. Self-trained

(CONTINUED ON PAGE 10)



Tom Frenaye, K1KI talks
contest procedures



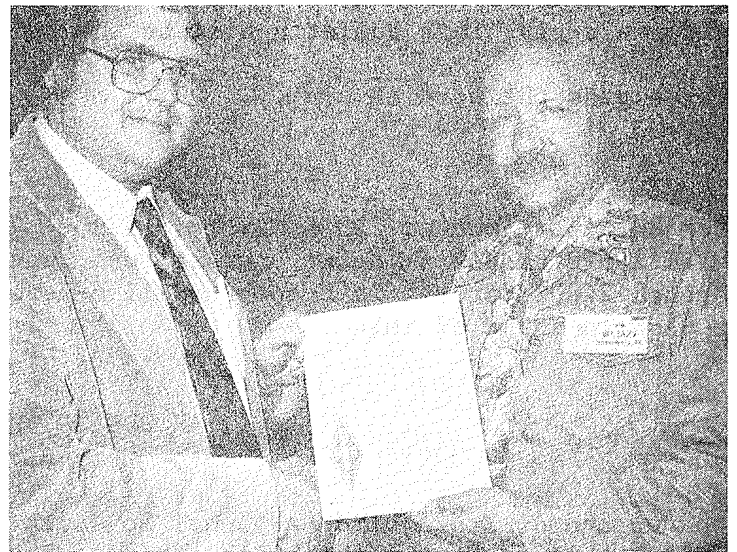
Tom presents VHF SS Gavel to
chairman Harry Brown, W3IIT.
Prez Bill Olson, W3HQT looks on



Tom gives the "KING", Ron, WA3AXV
his VHF SS Certificate



The 1979 gavel safely installed in the
display case - number 19 that is



A closer look- highest VHF SS
single op score- 64,512 points

TWENTY YEARS OF AMATEUR RADIO
CONTINUED

and self-organized, they played a heroically important part in the winning of the war. November 11, 1918, Armistice. Peace. But not for amateur radio.

It had to start its fight for existence the instant the guns in France stopped booming. A radio bill was proposed in Congress that threatened amateur radio. Eleven days after the Armistice the old Board of Directors met in New York, authorized President Maxim to attend hearings on the bill, and agreed to meet again for the purpose of getting the League reorganized.

It is December. Mr. Maxim appears before the House Committee on Merchant Marine and Fisheries. With him is the realization that the amateurs of the country and their families have already written their representatives, protesting the bill, through the League's efforts. He pleads for an hour, outlining the story of the amateur, describing his invaluable work during the war.

The bill is not even reported out of Committee. (TO BE CONTINUED)

* * *

ARRL BULLETIN NR 32 FROM ARRL HEADQUARTERS NEWINGTON CT MAY 22, 1979 TO ALL RADIO AMAYEURS BT

Announcing the ARRL 80 Meter Midnight Special, a two hour non prime time contest to be held Saturday morning June 2 from 0700 to 0900 UTC, which is midnight to 2 AM Pacific Daylight Time. The general call is CQ S while the exchange is Zip Code for US stations and possessions, Postal Code for Canadians, and a six digit number consisting of day month year of birth for DX stations. Calling frequencies are 3535 and 3900 with single operator entries only. A station may be only worked once in the contest. Score equals total contacts. Send logs to ARRL postmarked by June 9. Normal ARRL contest criteria apply. This bulletin will be the only means of announcement of this activity.

Please pass the word AR

* * *

From HR Report Number 253 - May 18, 1979

SMIRK'S 5TH ANNUAL 6- Meter Contest runs June 2-3 from 0000Z Saturday (Friday evening U.S.) through 2400Z Sunday. It's open to all 6-meter operators worldwide; for full details send an SASE to K5ZMS of SMIRK.

* * *

AN ODE TO THE GAS SHORTAGE
by Ralph, WA3FOF

Look up ahead! Its a bird! a plane! No - its SUPERDRIVER. Faster than the double-nickel limit - able to beat lights with a single bound (on the gas pedal) and who, disguised as an ordinary "shmoo", fights for the elimination of the double-nickel, and for death to anyone who happens to get in his way!

* * *

JUNE 8,9,10 - HILLTOWN, PA. TELEPHONE NUMBER WILL BE 215- 822 - 7110.....

215-947-8670

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DIRECTOR, ATLANTIC DIVISION

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BETHESDA, MARYLAND, 20034

NE 7-8329

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CONSULTING ENGINEER

W3HK

4607 CONVENT LANE
PHILA., PA. 19114



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