

Mountain Spark Gaps

New Providence Amateur Radio Club
P.O. Box 813
New Providence, NJ 07974

April, 1986

Nets:

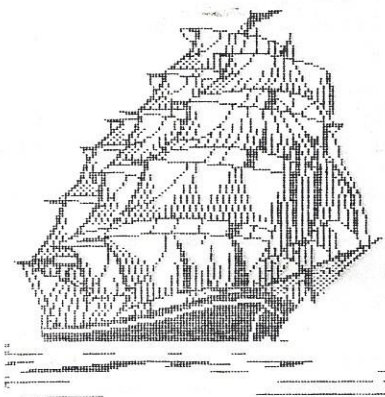
FM Phone 145.750 MHz Sundays at 8:00 p.m. EST Bill King, W2LTJ
RTTY 145.750 MHz Sundays at 8:00 p.m. EST John Sheetz, K2AGI
CW 28.150 MHz Wednesdays 9:00 p.m. EST Floyd Harvey, KA2DDG

MEETING SCHEDULE FOR APRIL

April 14: John J. Hanlon and Dave Waldman of Jersey Central Power and Light Company will talk on power transmission line radio control and also RFI/TVI caused by the power lines.

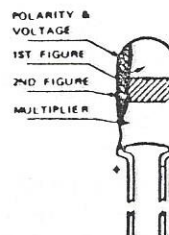
April 28: Regular fourth-Monday meeting. Got an idea for a topic? Join the Sunday night net before the meeting the following Monday and throw up the topic.

RTTY PICTURE OF THE MONTH



READING CAPACITOR VALUES

A AND B CASE



CAPACITOR MARKING

A AND B CASE

CAPACITANCE AND VOLTAGE COLOR CODE

Rated Voltage VDC 25 C	Color	CODE FOR CAPACITANCE IN PICO FARADS		
		1st Figure	2nd Figure	Multiplier µF
3-4	Black	0	0	None
3-6	Brown	1	1	x10
3-10	Red	2	2	x10 ²
3-15	Orange	3	3	x10 ³
3-20	Yellow	4	4	x10 ⁴
3-25	Green	5	5	x10 ⁵
3-35	Blue	6	6	x10 ⁶
3-50	Violet	7	7	x10 ⁷
	Gray	8	8	
3	White	9	9	

--Via W2GKF

APRIL CALENDAR

- 1: April fool's day
- 13: W1AW Qualifying Run (See April QST p.79)
- 14: NPARC regular meeting
- 25: Ranger IV landed on moon in 1962
- 27: W1AW Qualifying Run
- 28: NPARC 4th fourth-Monday meeting
- 29: Rubber patented in 1813

HAM RADIO COMPUTER BULLETIN BOARD

There is a computer bulletin board system up in New Jersey called the "Micro-Fone BBS". If you have a modem and would like to use it, the phone number is 494-3649.

--From WA2ZDN

HAMFEST WATCH

April 6 (Sunday): The Old Bridge Amateur Radio Association's annual indoor/outdoor electronic Flea Market, Knights of Columbus Hall, Pine Street, Old Bridge. Sellers contact Bob Navin, N2DFJ at 251-6449 or Sam Ugliarolo, WB2HAE at 583-2158. Talk-in on 147.12 (-600).

April 12 (Saturday): The 8th annual Flemington Hamfest is going to be held at the Hunterdon Central High School Field House, Route 523, Flemington, NJ. Doors open at 8 AM and breakfast is available from 6:30 AM. Many forums including Packet Radio, ARRL, and QSL bureaus. FCC exams will be given -- send your 610 form, photo copy of current license and \$4.25 (Check to ARRL/VEC) to VE EXAMS, Box 308, Quakertown, NJ 08868. For table reservations contact Bill Inkrote, K2NJ at 788-4080. This is an all indoor hamfest with over 200 supplied tables. Talk-in on 147.375, 147.015, 224.12, 224.52, 224.6, 443.075, 444.85 repeaters and 146.52 simplex.

April 19-20 (Saturday-Sunday): 11th annual Trenton Computer Festival. Saturday 9 AM to 6 PM, Sunday 10 AM to 4 PM. Trenton State College, Hillwood Lakes, NJ. Free parking. General admission covering both days and all events except banquet \$7. Flea market spot for both days and one admission ticket \$15. Students/senior citizens \$3; preschool children free. Sunday only--\$5 general admission. For more information contact Ms. Marilyn Hughes at (609) 771-2487.

May 4 (Sunday): Tri-county Radio Association Hamfest. Passaic Township Community Center off Valley Road, Stirling, NJ (opposite Jaeger Lumber and building material center). 9:00 AM to 3:00 PM. Registration \$2, Tables \$7.50 (with AC power \$10). Contact Dick Franklin, W2EUF, at 232-5655 for reservations/information. Talk-in on 147.255 (+600), 449.975 (-5 MHz), and 146.52 (simplex). Door prizes -- grand prize: Icom IC-02AT.

WESTLINK NEWS BULLETINS

Westlink amateur radio QST's contain a wealth of information concerning ham radio including news on FCC rulings concerning radio communications, new amateur equipment, recent developments, and other interesting topics. The QST's are updated every week and are generally 10 minutes long.

Tom Brown, KA2UGQ, is transmitting these QST's on 145.75 MHz FM Sunday nights at 7:30 P.M. EST

The QST's will be repeated any time Tom is listening on the club frequency if you would like to hear them.

--From KA2UGQ

NPARC CLASSIFIEDS

For sale by Bob Mendelson, W2OKO:

Intercolor model 8000 computer complete with extras.

- . 19-inch screen
- . Two disk drives plus unused spare
- . EPROM burner
- . hundreds of programs on disks and hard copy
- . Source editor and assembler
- . Basic Editor
- . Utilities all on ROM
- . Games

Asking \$1500. Contact Bob at 464-5244 or write him at 27 Somerset Place, Murray Hill, NJ 07974.

For sale by Harry Kundrat, W2YEZ:

- o 3M model 107 copier with paper. \$25
- o IBM Executive typewriter with wide platen which can take 11" paper. EXCELLENT print quality such as would be produced by a print shop. \$50
- o Boston Gear industrial speed reducers. One is 50:1, the other is 10:1. \$25

Contact Harry at 665-1873 for more info.

EMISSION DESIGNATIONS

New emission designations were adopted during the 1979 World Administrative Radio Conference (WARC) of the international Telecommunications Union (ITU, a United Nations specialized agency) held in Geneva, Switzerland. The key to the new emission designations is as follows:

First Character (type of emission modulation)

- A Amplitude modulation, double-sideband
- C Vestigial sidebands
- F Frequency modulation
- J Single-sideband, suppressed carrier
- N Unmodulated carrier emission
- P Sequence of unmodulated pulses

Second Character (nature of modulation signal)

- 0 No modulating signal
- 1 A single channel containing digital information, without using a modulating subcarrier
- 2 Single channel containing digital information, using a modulated subcarrier
- 3 A single channel containing analog information

Third Character (type of transmitted information)

- A Telegraphy for aural reception
- B Telegraphy for automatic reception
- C Facsimile
- D Data transmission, telemetry, telecommand
- E Telephony
- F Television
- N No information transmitted

Old	New	Emission Description
A0	N0N	Unmodulated, with no information transmitted.
A1	A1A	Telegraphy keyed on and off, for aural reception.
A2	A2A	Amplitude-modulated telegraphy keyed on and off, for aural reception. Tone modulation.
	A2D	AM single channel, digital information, modulating subcarrier to transmit telegraphy for aural reception.
A2J	J2A	AM modulated by tone(s) keyed on and off. Single sideband, suppressed carrier. Single channel, digital information, modulating subcarrier to transmit telegraphy for aural reception.

J2D	SSB	suppressed-carrier single channel, digital information, modulating subcarrier to transmit data, telemetry, or telecommand.
A3	A3E	Double-sideband AM single channel, analog information. Telephony (voice).
A3J	J3A	SSB, suppressed carrier, AM single channel, analog information. Telephony (voice).
A4	A3C	DSB AM single channel, analog information. Facsimile images for viewing in a permanent form.
A5	C3F	Single channel, analog information and vestigial (imperfect, one sideband suppressed) sidebands. Television images for viewing in a temporary form.
	A3F	DSB AM single channel, analog information. Television images for viewing in a temporary form.
F0	N0N	Unmodulated, with no information transmitted.
F1	F1B	Switched between two frequencies. Single-channel frequency modulation, digital information, without a modulating subcarrier. Telegraphy for automatic reception. Commonly referred to as frequency-shift keying (FSK) radioteletype.
F2	F2A	Frequency/phase modulated by switching tones. A single channel, digital information, a modulating subcarrier. Telegraphy for aural reception.
	F2B	Telegraphy for automatic reception. Commonly referred to as audio frequency-shift keying (AFSK) radioteletype.
	F2D	Data transmission, telemetry, or telecommand.
F3	F3E	FM/PM single channel, analog information. Telephony (voice).
F4	F3C	FM/PM single channel, analog information. Facsimile images for viewing in a permanent form.
F5	F3F	FM/PM single channel, analog information. Television images for viewing in a temporary form.
P	P1B	Sequence of unmodulated pulses in a single channel containing digital information, without a modulating subcarrier. Commonly referred to as pulse telegraphy.

--From W6DDB

"Those who can, do.
Those who can't, simulate"