

Mountain Spark Gaps

New Providence Amateur Radio Club
P.O. Box 813
New Providence, NJ 07974-0813
ARRL Club Number 0213

November, 1986

Nets:

FM Phone 145.750 MHz	Sundays at 9:00 p.m. EST	Bill King, W2LTJ
RTTY 145.750 MHz	Sundays at 8:00 p.m. EST	John Sheetz, K2AGI
Westlink 145.750 MHz	Sundays at 7:30 p.m. EST	Tom Brown, KA2UGQ
Slow CW 28.150 MHz	Wednesdays 9:00 p.m. EST	Floyd Harvey, KA2DDG

MEETING SCHEDULE FOR NOVEMBER

November 10: >SPECIAL PROGRAM< New Jersey Bell Telephone Company slide presentation on the North American Aerospace Defense Command (NORAD) and the development of one of the world's most sophisticated communications systems.

The lecture will include a discussion of NORAD's mission, between a NORAD officer at Colorado Springs, Colorado, and a New Jersey Bell Staff Specialist through use of a conference type telephone.

NORAD is a joint operation of the defense forces of the United States and Canada comprised of 50,000 persons stationed around the world at missile sites, satellite tracking stations, fighter bases, command and control centers, and radar outposts. Their primary mission is to provide advance notification of an enemy aircraft or missile attack launched against North America.

PLEASE NOTE:

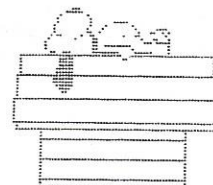
This program will be held in the basement of the New Providence Municipal Building, corner of Elkwood Avenue and Academy Street, New Providence, New Jersey.

November 24: Regular fourth-Monday meeting (in the basement of the New Providence Memorial Library).

NOVEMBER CALENDAR

- 2: NPARC Annual Transmitter Hunt
- 8: ARRL VEC Exams (See page 3)
- 9: ARRL Hudson Division Forum (See page 2)
- 10: NPARC >NORAD< Program (Municipal Bldg)
- 11: Veterans' Day
- 21: Edison invented "Talking Machine", 1877
- 24: NPARC fourth-Monday meeting (Library)
- 27: Thanksgiving Day

RTTY PICTURE OF THE MONTH



Have you noticed? You buy a package of hot dogs, there are usually ten of them. Then you pick up a package of buns--and it has only eight.

If you have any articles, tidbits, corrections, comments, for-sale or wanted ads, or even recipes, please contact editor Tom Brown, KA2UGQ at any NPARC club meeting, on the club frequency (145.75 MHz), or by land-line at 464-7958 after 3 PM weekdays.

The New Providence Amateur Radio Club

An ARRL Affiliated Club

President Bill Wadsworth, W2ZKE
Vice President Mike Shepnew, KA2UGR
Secretary Paul Meinshein, WB2JVG
Treasurer John Sheetz, K2AGI
Program Chairman Bob Brown, W2EME

The Mountain Spark Gaps

Editor Tom Brown, KA2UGQ
Distribution John Sheetz, K2AGI

FROM USENET: net.ham-radio

Subject: ODOUR GENERATOR CHIP

In Elektor Electronics (July / August 1986 pg. 98 & 99) there is a small article introducing the CD4711 Odour Generator Chip:

pinout:

	---U---	
D0	!1 8!	Vcc 3 ... 15 V / 2 mA
D1	!2 7!	Odour intensity
D2	!3 6!	Offset
D3	!4 5!	Gnd

The device is manufactured by Odorant Elektronik GmbH, and they refer to it as their type CD4711 4 bit programmable, bio-electronics based odour generator. Odorant Elektronik claims "the CD4711 is capable of producing 1 of 15 odours as selected by the bit pattern on the four CMOS and TTL compatible data inputs while an 8 bit version with odour intensity modulation will shortly be announced"

Any idea about its internal workings?? Is it available to the experimenter??

73's David Prutchi 4X/HClDT
<dave@taueng.bitnet> <yti@taunos.bitnet>
Tel-Aviv University
School of Engineering

Subject: Re: ODOUR GENERATOR CHIP
Path: ..!ka9q!karn (Phil Karn @ Home for Burned-out Hackers)

15 odours, eh? Let's see...

bits	smell
0000	- Reserved
0001	- Burning epoxy
0010	- Burning teflon
0011	- Burning G-10 fiberglass
0100	- Burning electrolytic - aluminum
0101	- Burning electrolytic - tantalum
0110	- Burning resistor - Allen Bradley
0111	- Burning resistor - Japanese makes
1000	-

Hmm. That's about all I can come up with at the moment, maybe 3 bits would have been enough.

I'm still working on an application note for the Nuclear Event Detector first advertised about a year ago. I want to have it trigger a big neon sign that says "KISS YOUR *** GOODBYE!" but I'm having trouble finding high voltage Darlingtons that switch on fast enough before the whole system vaporizes.

73, Phil

Subject: Re: ODOUR GENERATOR CHIP
From: William Hobbs @ NSC Portland Development Center, Portland Oregon)

Elektor Magazine always publishes at least one fake circuit in their summer (July/August) edition, and my guess is that this issue's is the odor generator.

I have always appreciated their sense of humor. Other issues have included such projects as a solar-powered night light (the solar cell had to be connected to the light with a 12,500 mile cable), and such product announcements as a dark emitting diode (DED) and a smoke detector with a snooze feature

(push the button and the smoke alarm lets you sleep for another five minutes).

I have had several resistors, transformers and capacitors that have performed as odor generators, but unfortunately they were one-shot devices :-).

Subject: The Phantom of Miami Skies
From: Phil Howard

The following article appears in the October 20, 1986 issue of U.S. News and World Report on page 7:

THE PHANTOM OF MIAMI SKIES

He was just a voice on the radio, but he stirred angry muttering from pilots flying into Miami and alarm among safety officials. A ham-radio operator posing as an air-traffic controller cut in on aviation frequencies for nine days, using aviator jargon that fooled pilots. Once, the imposter talked a commercial jet pilot into a premature descent - before a real air-traffic controller supplied the correct data. The FBI was brought in, but one aviation official insisted the intruder was "more an annoyance than a safety problem."

It appears that ham radio operators are now going to be unjustly accused of the wrong doings of people who very likely are not even ham radio operators at all. Computer hackers have already undergone this misrepresentation by the press, and now it looks like amateur radio will be under a similar "attack".

It appears that because "Captain Midnight" was a licensed amateur radio operator during his illegal activities, journalists who don't understand what this service is are going to be labeling anyone who perpetrates illegal activities on any radio frequency as a ham radio operator.

The time to head this off is immediate. I would urge everyone to pass this on to all hams, and to write to U.S. News and World Report about this matter. In addition to detailing your objections to the unfair association, be sure to bring up some other points:

1. "Captain Midnight" lost his amateur radio license due to his illegal operations that intentionally disrupted a satellite channel.
2. Ham radio operators provided the first details concerning the disaster surrounding the Chernobyl nuclear plant. In addition these ham radio operators in the Soviet Union probably provided first emergency radio communications before the government was able to react with full support. Even the closed Soviet society gives a little because they recognize the service amateur radio can give.
3. Ham radio operators provide countless services to the public in the area of emergency communications in our own country as well as all over the world. (But, you know that)
4. Barry Goldwater is a ham radio operator. Does this mean he goes around jamming HBO and diverting aircraft? Of course not.
- 5-N. Detail any specific instances of service ham radio operators have already provided

to the public.

N+1. Encourage USN&WR to do a follow-up article on just what the Amateur Radio service really is.

N+2. Send a copy of your letter to QST and/or 73, etc, so they may see the responses.

N+3. ARRL members should also try to get that organization to major response as well. That's what ARRL is here for.

--From Usenet

CLUB HIGHLIGHTS

REMINDER: Dues for the NPARC are due January. The rates are \$10/year regular membership and \$2/year student membership.

Bob Willis K2GLS and Al Perkins K2QKV came in first place in the annual Fox Hunt on November 2. Second place was Harry Kundrat W2YEZ and Bill King W2LTJ with a mileage of 50 miles. Bud Snyder KB2GN/Floyd Harvey KA2DDG and Tom Brown KA2UGQ/Bob Brown W2EME/John Bennett/Debbie Brown were guided in after the hunt was over. It was later discovered that the KA2UGQ/W2EME antenna was giving false readings -- 90 degrees error!

Nominations for new club officers have taken place and the elections will be held at the next business meeting, November 10.

DON'T FORGET to send in your reservations for the CHRISTMAS PARTY on December 12 at The AFTON in Florham Park! If you know of anyone who would like to come, please invite them soon! Another form will be included on the last page of this Spark Gaps. Remember, cash bar at 6 PM, dinner at 7 PM, \$16 per person with entrees of Roast Young Vermont Turkey or Stuffed Fillet of Flounder with Crab Meat.

There will be no December Mountain Spark Gaps for 1986. December newsletters for the NPARC are usually cancelled because of the lull in activities and meetings. See you in 1987!

--From K2AGI, W2ZKE, W2EME, KA2UGQ

ARRL VEC PROGRAM

Know of anyone who is thinking of upgrading? Does someone you know want to go for their novice license? Don't forget that the NNJ VE Board is alive and well and has sessions the second Saturday of each month. Exams are conducted at Union County College in Cranford, NJ. FCC form 610 applications with copy of existing amateur license and \$4.25 check payable to "ARRL VEC" should be received at least 30 days prior to exam date. Walk-ins are permitted but at risk of limited test materials. Novice form 610 applications are exempt of the \$4.25 fee. Contact Carl Felt, N2XJ at 635-7686 for more information and/or 610 forms. Next two sessions are November 8 and December 13.

**FROM PACKET:
ALL HAM ACTIVITY MUST CEASE!**

From: K3DSM 10/31/86

FCC rules state that hams shall not engage in

commercial activities via Ham Radio (97.112a) meaning that hams shall not advertise businesses or sell products for businesses or shall have no pecuniary gain. It also means that one shall not call his office for messages or get service call messages via ham radio. A ham should not make business appointments via ham radio. (That's what commercial radio is for).

Recent FCC interpretations have changed the meanings of the original intent.

1. Hams shall not mention that they have a used piece of equipment for sale.
2. Hams shall not mention what equipment they are running. (advertising)
3. Hams shall not mention that they are going somewhere. (someone will benefit)
4. Hams shall not discuss repairs to their equipment. (the name could be accidentally mentioned or the parts needed would be advertised)
5. Hams should not discuss politics (someone will benefit in some way)
6. Hams shall not transmit as the electric company would benefit.
7. Hams shall not make autopatches as the phone company benefits.
8. Hams shall not talk too much as his doctor may benefit from a medical visit from a sore throat.
9. Hams shall not meet using radio to guide them as the gas companies will benefit by savings and commercial landmarks could be mentioned.

Conclusion:

It has been determined that rules can be interpreted any way that one could imagine. Therefore, it is no longer feasible to communicate via Ham Radio as one is not in violation in some manner.

All hams are advised to turn in their ham licenses and operate on 27 MHz where anything goes. There are no licenses, rules, or restrictions: The FCC gave up long ago.

A good alternative would be to get a commercial license and operate on the commercial bands as everything one could want to talk about is of some sort of a commercial nature.

--From K3DSM

The Mountain Spark Gaps

Editor Tom Brown, KA2UGQ
Distribution John Sheetz, K2AGI

Merry
Christmas

and

Happy
New
Year!

HAMFEST WATCH

November 16 (Sunday): The West Orange Repeater Club will sponsor their hamfest at the Orange Elks Club, 475 Main Street, Orange, 9 AM to 3 PM. Doors open 7 AM for sellers. Admission \$2.75 advance, \$3 at door. Sellers \$10 advance, \$12 at door. Refreshments available. Talk-in on 146.55 (simplex) and 224.8 (223.2 input). More info: Mike or Rob at 674-0507 anytime.

November 9 (Sunday): TECHNICAL FORUM

ARRL Hudson Division Technical Forum on topic of computers and ham-radio. John Bloom, KE3Z from ARRL will be there, as well as many of the technical experts from around the division. There will be demonstrations, technical discussions, and plenty of time to talk to others and share ideas.

The forum will be held at the Holiday Inn in Fishkill, New York, at the intersection of routes 9 and 84. It is easily accessible from route 684, the Taconic Parkway, or the Thruway. There will be a talk-in on the Mount Beacon repeater (WA2UGO) on 146.97 (-600). Coffee and tea will be served. The discussions will begin at 9 AM.

Last November a similar forum was held on Long Island on the subject of Volunteer Examining. From the comments received, it seems that you think technical forums are a good way to hold division meetings.

If you are thinking of attending, Bud Snyder KB2GN (277-6479) would like to know about a possible carpool arrangement.

NPARC CLASSIFIEDS

For sale by Al Perkins, K2QKV (543-2659):

Novice outfit for sale:

- Drake 2B receiver - 10 to 80 meters
 - Drake 2BQ filter and speaker
 - Eico 720 90-watt CW transmitter
 - Hallicrafters HA5 VFO - 2 to 80 meters
 - Homebrew T/R switch
 - Low-pass RF filter
- Includes all manuals, etc.

For sale by Pres Conrad, N2CXE (635-8388):

10 Horsepower Briggs & Stratton gasoline engine. Generator puts out 110 volts.

Wanted by Pres Conrad, N2CXE (635-8388):

Sure 444 or high-impedance crystal ceramic or dynamic microphone.

For sale by Bob Willis, K2GLS:

* ANTIQUES For Sale:

Meissner signal shifter
Meissner signal splitter
Western Electric CW B34 headphone
Make offer

* Accessories For Sale:

Antenna coax relay, Dow Key 117 VAC coil with DPDT external contacts, \$15.
B&W 1.6 to 30 MHz 1 kilowatt low-pass filter, \$10.

* Miscellaneous Items For Sale:

12" speaker, EICO Model 425 Oscilloscope

DC to 3.5 MHz, EICO Model 315 Signal Generator, Air Duct Coil 4" diameter 5" long, Heathkit W5-M HI-FI 50-watt amplifier, Heathkit SB-10 Single Sideband Adapter for use with Heathkit Apache or DX-100, PE-101C Dynamotor, many other small items. No offer refused.

Contact Bob Willis, K2GLS at 543-2454 (Home) or 386-4666 (Work).

For sale via Harry Kundrat, W2YEZ (665-1873):

FROM THE ESTATE OF JOE GITZ, KD2BC (SK)

Akro-Mils 12-drawer cabinet
ARRL FM & Repeater book
Astron RS-7A power supply
Boxer fan, 4 1/2"
Callbook, 1984 foreign listings
Callbook, 1984 U.S. listings
Coax cables/connectors (RG-8/U): 1-5", 1-16", 1-18", 1-19", 1-30", 1-45", 1-4 1/2 feet, 1-5 feet, 1-9 feet, 1-18 feet, 1-20 feet
Drake W-4 SWR/Wattmeter
Eico VOM Multimeter
Electronic parts, 1 box
Heath HM-11 VTVM and manual
Heath PM-2 Tuning meter
Icom IC25A 2-meter 25-watt FM transceiver
Kenwood TS430S Transceiver with manual (purchased 7/16/84 @ \$700)
Kenwood PS-30 Power supply with manual
Line voltage monitor
(*) Mosley MP33 3-element beam
Protax 5-position coax switch
(*) Ringo Ranger ARX-2B 2-meter antenna
(*) TR44 Antenna rotator with control box
(*) Tri-Ex THD 326 25-foot crank up tower
Vibroplex bug
Western Union straight key
Wire, 1 box

If interested in any of the items from the estate of Joe Gitz, KD2BC, please contact Harry Kundrat at 665-1873. Item goes to highest bidder. Items marked with a (*) must go soon, preferably before the winter snow falls.

For sale by Lou Rodriguez, WA2BUY (377-6904):

Vic 20. 6502 Color Computer	\$ 75.00
C2N Cassette Unit	50.00
MPS-801 Dot Matrix Printer	120.00
TV RF Adapter	15.00
RAMAX - 27K Memory Expansion	85.00
Software:	
Inside the VIC (Assembly Course)	35.00
Personal Finance (VIC 1929 Cartridge)	\$15
Kantronics Hamsoft Cartridge	35.00
VIC Morse	15.00
HESWRITER Wordprocessor Cartridge	25.00
GRIDDER - Cassette game	15.00
VIC CALC 80 - Spreadsheet (DISK)	15.00
VIC FILE WRITER file reader (TAPE)	10.00

BOOKS:

Things to do with your Commodore VIC 20	3.95
Personal Computing on the VIC 20	5.95
Top Down Assembly Language Programming	16.95
VIC 2 - Second book of VIC	12.95
Programmers reference guide (VIC 20)	16.95
The Second Book of Machine Lang.	14.95
VIC Games	12.95
Selected collection of programs	20.00

TOTAL ORIGINAL COST: \$634.65
ASKING PRICE: \$300.00



GEORGE MEADE

WOR RADIO 730AM

----> TEAR HERE <----

NPARC HOLIDAY BANQUET

Friday, December 12, 1986. Cash bar at 6 PM, dinner at 7 PM.

I want to reserve _____ seats for the Holiday Party to be held at The AFTON, 2 Hanover Road, Florham Park, NJ. I enclose a check to cover costs at \$16 per person, and choose entrées as follows:

Number Requested	Entrée
_____	Roast Young Vermont Turkey
_____	Stuffed Fillet of Flounder with Crab Meat

Name(s):

Note: Make checks payable to Bill King, and mail reservations to:

Bill King, W2LTJ
5 Midwood Drive
Florham Park, NJ 07932-1810

PLEASE MAKE YOUR RESERVATIONS NOW