

MOUNTAIN SPARK GAPS



**NPARC—The Radio Club for the
Watchung Mountain area**

Website: <http://www.nparc.org> Club Callsign: N2XJ

VOLUME 45 October 2010 NO. 10

UPCOMING EVENTS

Regular Meetings

Monday Nov. 8 & 22

7:30 PM

Salt Brook School

Nov. 13-14.

CQ-WE Contest

**Visit <http://cqwe.cboh.org/> ,
the official website, for all the details.**

February 13, 2011

NPARC FM VHF/UHF Sprint

See website for details.

Meeting Schedule

Regular Meeting: 7:30—10:30 PM
2nd Monday of each month at the
Salt Brook School Cafeteria
Springfield Ave. and Maple St.
New Providence

Informal Project Meeting: 7:30—9:00 PM
4th Monday of each month at the
Salt Brook School Cafeteria
Springfield Ave. and Maple St.
New Providence

Everyone is Welcome
If a normal meeting night is a holiday,
we usually meet the following night.
Call the contacts below.

Club Officers for 2010

President: K2UI Jim Stekas
908-665-0299
Vice Pres.: N2KDK Paul Campano
908-508-9595
Secretary: K2JV Barry Cohen
908-464-1730
Treasurer: K2YG Dave Barr
908-277-4283
Activities: W2UDT Bill Hudzik
908-580-0493

On the Air Activities

Club Operating Frequency
145.750 MHz FM Simplex

Sunday Night Phone Net
Murray Hill Repeater (W2LJ) at 9:00 PM
Transmit on 147.855 MHz
With PL tone of 141.3 Hz
Receive on 147.255 MHz
Net Control K2AL

K2AGI Memorial Digital Net
First and Third Mondays at 9 PM (0100Z)
Look around 14,085 KHz for RTTY
Ops using AFSK should look around 14,086-
7. Contact K2YG for details.

Club Internet Address

Website: <http://www.nparc.org>
Webmaster K2MUN David Berkley
Reflector: nparc@mailman.qth.net
Contact K2UI, Jim

MOUNTAIN SPARK GAPS

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Editor Emeritus: KQ2E Bruce Havourd
Contributing Editors:
WB2OOO Rick Anderson
WB2EDO Jim Brown

Climatological Data for New Providence for September 2010
The following information is provided by Rick, who has been
recording
daily weather events at his station for the past 29 years.

TEMPERATURE -

Maximum temperature this September, 91 deg. F (September 2)

Last September(2009) maximum was 78 deg. F.
Average Maximum temperature this September, 75.7 deg. F

Minimum temperature for this September, 48 deg. F (September 21)

Last September(2009) minimum was 47 deg. F.
Average Minimum temperature this September, 60.1 deg. F
Minimum diurnal temperature range, 4 deg.(64 - 60 deg.) 9/12.

Maximum diurnal temperature range, 24 deg. (77 - 53 deg. 9/6.

Average temperature this September, 67.9 deg. F
Average temperature last September, 63.6 deg. F

Number of days this September with temperatures of 90 degs. or
higher = 2.

Last September = 0.

PRECIPITATION -

Total precipitation this September - 4.58" rain
Total precipitation last September - 1.98" rain

Maximum one day precip. event this September; September 30,
1.90" rain.

Measurable rain fell on 9 days this September, 9 days last September.

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Rick Anderson 10/4/10

243 Mountain Ave.
New Providence, NJ
(908)464-8911

rick243@comcast.net

Lat = 40 degrees, 41.7 minutes North
Long = 74 degrees, 23.4 minutes West
Elevation: 380 ft.

CoCoRaHS Network Station #NJ-UN-10
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SCIENTIFIC TIDBITS

THE MEMRISTOR

Back in July of 2008 Hewlett-Packard Labs announced the invention of the memristor. They called this the “fourth basic circuit element,” along with resistors, capacitors, and inductors. At the time, it was thought to mainly provide a possible way to replace DRAMS and static ICs to lower power consumption and eliminate the boot-up process. However, Hewlett-Packard recently announced that the concept has even more importance than originally believed. They have discovered that the device in addition to use in memory storage, it can perform logic functions. This implies that a memristor circuit could be used to perform computations in the device where the data is stored, thus eliminating the need for a CPU altogether.

Each memristor is composed of two layers of titanium dioxide connected by wire. As current is applied to one layer, the small signal resistance of the other layer is changed, and this may be used as a method to register data.

Pushing ahead with the technology, Hewlett-Packard has created development-ready architectures for the ICs and believes that they could be on the market relatively soon. They also have figured out how to stack multiple layers of memristors in the same chip to make them highly compact. A spokesman projected “in five years, such chips could be used to create handheld devices that offer ten times greater embedded memory than exists today, or to power super-computers that allow work like movie rendering and genomic research to be done dramatically faster than Moore’s Law suggests is possible.” Memristors also use less energy and operate at higher speeds than devices like Flash memory, and can store double the information in the same space. Also commenting on the development was R. Stanley Williams, Hewlett-Packard senior fellow and founding director of the Hewlett-Packard quantum Science Research group: “Since our brains are made of memristors, the flood gate is now open for commercialization of computers that would compute like human brains, which is totally different from the von Neumann architecture underpinning all digital computers.”

It seems that Hewlett-Packard is very serious about developing this technology as it announced on September 1, 2010 a partnership with memory supplier Hynix to manufacture memory products based on the memristor technology. It will be very interesting to see how far this technology develops. Could it be we are witnessing a truly giant evolutionary step forward for the computer and programmable chip industries?

Jim Brown
WB2EDO

While digging through the K2EZR archives I found the following rosters. I thought some members might find them interesting.

11 MARCH 1968

NEW PROVIDENCE AMATEUR RADIO CLUB
ALPHABETICAL LISTING

NAME	ADDRESS	CALL	PHONE	STATUS
ALFRED, DON	120 THE FELLSWAY, M. H.	K2DJH	464-0086	M*
BARTFAI, ANDY		(OFFICE PHONE)	277-3435	HON.
BASHFORD, BOB	1156 SPRINGFIELD AVE., N. P.	WB2ANP	273-2811	M*\$
BLAIR, BILL	293 MC MANE AVE., B. H.	WB20TL	464-1006	M*
BLAIR, ROYER	293 MC MANE AVE., B. H.		464-1006	M
BORTKIEWICZ, INEZ	26 FAIRFAX DR., B. H.	WB2URD	464-6374	S*\$
BOSEFSKIE, FRANK	99 PASSAIC AVE., B. H.	WA2IGU	464-1342	M \$
CAMPBELL, BARRY	17 DEBBIE PL., B. H.	W2CGX	464-0856	M
CARUSO, BOB	135 BRADFORD ST., N. P.		277-1697	S
CLARK, STEVE	239 PARK AVE., B. H.		464-1040	S
CRESSON, DOUG	127 OAK RIDGE AVE., SUMMIT	WB2YWA	277-1438	S \$
CUMMINGS, VAIL	8 CLUB DRIVE, SUMMIT	W2WVV	273-2492	M*\$
DEROWITSCH, CHAS.	R.D.#3, BOX 143, WHARTON, N.J.	W2RBR	398-1012	M
EASTLAND, GEORGE	15 RIVER BEND RD., B. H.	WN2WVB	464-2254	M*\$
FEIN, DAVE	35 EDGAR ST., SUMMIT	WB2KRS	273-3738	S
GALLOWAY, JIM	8 CHURCH ST., BERNARDSVILLE		766-4332	S
GIACCHI, JIM	159 RUTGERS AVE., B. H.	WB2CXP	464-2209	S
GITTLEMAN, RICHARD	36 ETHAN DR., M. H.	WB2RZH	464-1257	S
GRIFFITHS, DAVE	MT PLSNT VIL, RT 10 BLDG 13-8BWA2FWL		267-4723	M
HALLER, BILL	5 EDGAR ST., SUMMIT	WB2NYL	277-1999	S \$
HIRSCH, AL	33 EVERGREEN RD., SUMMIT	K2SKV	273-6372	M*\$
JOHNSON, ARDEN	154 KNOLLWOOD DR., M. H.	WB2GPG	464-0524	M*\$
LATTER, BOB	179 PITTSFORD WAY, N. P.	W2YFM	277-0479	M*\$
LATTER, DAVID	179 PITTSFORD WAY, N. P.		277-0479	S \$
LAX, DAVID	36 ASHWOOD RD., N. P.		273-6188	S \$
LEDDER, RON	56 WESTERN BLVD., GILLETTE		647-2142	S
MILLS, MUARRY	413 ELM ST., STIRLING	WA2BLB	647-2661	S*
MILLS, RON	413 ELM ST., STIRLING		647-2661	S
NAPOLITANO, ANDY	36 JANE RD., N. P.	WB2WGM	277-4463	M*\$
NORTON, LEN	94 KNOLLWOOD DR., M. H.	WB20DZ	464-0196	M
OLSON, RICHARD	63 LAUREL DR., N. P.	WB2RPB	273-0120	S
PAINTER, JOE	38 BEECH AVE., B. H.	W2BHM	464-2252	M \$
PALMQUIST, JIM	65 ROBBINS AVE., B. H.	WB2EKA	464-0536	M
PERRY, IRVING	232 WOODLAND AVE., SUMMIT	W2ARL	273-8582	M*\$
PICKEL, ED	36 N. SUMMIT AVE., CHATHAM		635-6657	M \$
ROBINSON, BRUCE	136 THE FELLSWAY, M. H.	WB2VIP	464-3863	S*
SHEETZ, FRED	5 HANSELL RD., M. H.		464-5671	S
SHEETZ, JOHN	5 HANSELL RD., M. H.	K2AGI	464-5671	M*\$
SPIGEL, JOHN	16 WEBSTER DR., B. H.	WB2PAZ	464-2144	S*
VAN, T SLOT, VAN	302 PASSAIC AVE., STIRLING	W2DLT	647-3325	M
VICKERY, PAUL	22 LINDEN PL., SUMMIT		273-0709	S
VOORHIS, HAROLD	105 NEW ENGLAND AVE. APT. 2B, SUMMIT		277-6935	M*\$
WACKWITZ, JIM	837 CENTRAL AVE., N. P.	WB2VIS	464-3335	S
WOOD, DAVID	46 FOX RUN, M. H.	WB2RPU	464-9293	S*\$

STATUS: M=MEMBER S=STUDENT *=ARRL MEMBER \$=1968 DUES PAID
PLEASE NOTIFY JOHN SHEETZ OF ANY CHANGES, CORRECTIONS OR ADDITIONS.

I don't see many familiar names.

SOMERSET HILLS RADIO CLUB of SUMMIT, NEW JERSEY, Inc.

"The Friendly Club"

MEMBERSHIP ROLL

NAME	CALL	ADDRESS
ANDERSON, FREDERICK	W2QEQ	31 ELLIOT ST., MORRISTOWN
ANSORGE, HARRY W.	K2BCJ	767 SPRINGFIELD AV., APT., 25., SUMMIT
DREXLER, JOHN	K2BUU	3 MARSHALL ST., IRVINGTON, N.J.
DUFFY, GEORGE	W2JDW	28 GALE DRIVE, NEW PROVIDENCE <i>14 OVERLOOK RD. SUMMIT</i>
DUPONT, JAMES	W2DEO	MYERSVILLE RD., CHATHAM
EVANS, HAYDEN	K2BZT	26 PARKVIEW TERRACE, SUMMIT
FELSENHELD, JAMES D.	W2IM	BOX 192, PEAPACK
FELSENHELD, ROBERT A.	W2BCC	30 SOUTH MUNN AV., EAST ORANGE
FRY, GENE	K2CW	69 ASHLAND RD., SUMMIT
HALL, BUD	W2LSX	133 WILLOUGHBY RD., FANWOOD
HARCHER, HARRY A.	W2GND	237 LONGWOOD AV., CHATHAM
HOROWITZ, PETER	W2LSJ	138 HILLCREST AV., SUMMIT
HULIN, LYNFORD S.	W2GZZ	71 VALLEY VIEW AV., SUMMIT
KRUSE, HENRY, JR.	W2BFY	107 CENTER AV., CHATHAM
MADSEN, RAYMOND L.	W2BFB <i>K28PB</i>	851 SPRINGFIELD AV., SUMMIT
MCANENY, FRANK	KN2EZR	64 PROSPECT ST., SUMMIT
NORTON, EDWARD L.	W2SHF	17 LORRAINE PL., SUMMIT
OSTERBERG, JOHN C.	W2ZKT	145 BLACKBURN RD., SUMMIT
PAINTER, JOSEPH H.	W2BHM	38 BEECH AV., BERKELEY HEIGHTS
PERRY, IRVING	W2ARL	390 MORRIS AV., APT. 31 SUMMIT
ROBINSON, JEREMY	K2AKW	11 MONTVIEW RD., SUMMIT <i>6035</i>
ROSENKRANZ, ALLEN A.		105 ASHWOOD AV., SUMMIT
SCHMUKLER, SIDNEY	W2HWI	42 SCHOOL AV., CHATHAM
SELLERS, GABE A. JR.,	W2ZGB	178 COLONIAL RD., SUMMIT
SPEYERS, A. W.	W2CZA	39 LOWELL AV., SUMMIT <i>28764</i>
SPILLER, DON	W2VKN	199 WATCHUNG AV., CHATHAM
STILES, KENNETH P.	W2MTJ	106 PROSPECT ST., SUMMIT
TANNAHILL, STEWART	K2CQT	19 WASHINGTON AV., CHATHAM
TURGEON, R. H.	K2AJO	796 MOUNTAIN AV., BERKELEY HEIGHTS
TURRIN, RICHARD H.	W2IMU	RFD No. 1, MILLINGTON
WEAVER, CHARLES E.	W2AZW	ELKWOOD AV., NEW PROVIDENCE
WOODWARD, WM R.	W2ROY	STAR RIDGE, LONG HILL RD., MILLINGTON

MEETINGS ON FIRST and THIRD THURSDAYS OF EACH MONTH AT THE HOME OF

JOHN C. OSTERBERG, 145 BLACKBURN RD., SUMMIT, N.J.

February 1, 1954

Any Familiar names?