

MOUNTAIN SPARK GAPS

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



**Website: <http://www.nparc.org>
Club Calls: N2XJ, W2FMI**

VOLUME 46 June 2011 NO. 6

UPCOMING EVENTS

Regular Meetings

**Monday June 27 & July 11 7:30 PM
Borough Hall Recreation
Meeting Room**

Upcoming Events

**June 25—26 Field Day
See Inside**

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.
When Schools are closed,
Meetings are held in the Recreation
Department Meeting Room in Borough Hall

Club Officers for 2011

President: N2KDK Paul Campano
908-508-9595
Vice Pres.: K2MUN David Berkley
908-500-9740
Secretary: K2JV Barry Cohen
908-464-1730
Treasurer: K2YG Dave Barr
908-277-4283
Activities: KC2OSR Sam Sealy
973-635-8966

On the Air Activities

Club Operating Frequency
145.750 MHz FM Simplex

Sunday Night Phone Net
Murray Hill Repeater (W2LI) at 9:00 PM
Transmit on 147.855 MHz
With PL tone of 141.3 Hz
Receive on 147.255 MHz
Net Control K2AL

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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Contributing Editors:
WB2QOO Rick Anderson
WB2EDO Jim Brown

Climatological Data for New Providence for
May 2011

The following information is provided by
Rick, WB2QOO, who has been recording
daily weather events at his station for the
past 29 years.

TEMPERATURE -

Maximum temperature this May, 86 deg. F (May
31)

Last May(2010) maximum was 92 deg. F.
Average Maximum temperature this May, 72.5
deg. F

Minimum temperature for this May, 41 deg. F
(May 6)

Last May(2010) minimum was 38 deg. F.
Average Minimum temperature this May, 54.6
deg. F

Minimum diurnal temperature range, 6 deg.
(61 - 55 deg.) 5/16; (60 - 54) 5/17.

Maximum diurnal temperature range, 30 deg.
(71 - 41 deg.) 5/6.

Average temperature this May, 63.6 deg. F

Average temperature last May, 66.0 deg. F

PRECIPITATION -

Total precipitation this May - 4.27" rain.

Total precipitation last May - 3.21" rain.

Maximum one day precip. event this May; May
18; 1.68" rain.

Measurable rain fell on 12 days this May, 13
days last May.

=====
Rick Anderson
6/19/11

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

MISCELLANEA

PRESIDENT'S COLUMN

Not available at press time.
(Hint, Hint)

SHARING NJ 5K Race

On June 12, Sharing NJ sponsored a 5K run and walk. Over 4000 walkers and runners participated and \$ 440,325 was raised. The ERT was asked to help with communications

New Providence Memorial Day Parade



The Marchers. Can we do better next year?



Some of the runners (walkers?) at a water station.



The ERT members who participated



The ERT members who participated.

If you are sick of seeing the same faces, how about volunteering?

MORE MISCELLANEA

A PLEA FOR HELP

Spark Gaps needs content!

Anyone who has information of interest to club members is requested to write it up and send it along. At present there are only three of us providing input. Certainly there are others in the club who can help out. Thanks in advance.

OTHER EVENTS

Field Day

June 25 & 26. Present plans are for a class 1F station (Phone, CW, & Digital) at the Red Cross Charter House in Summit and a class 2A station (phone & CW) plus a GOTA station at Governor Livingston High School in Berkeley Heights. These are the same locations used in prior years. Even if you do not plan to operate, extra hands are always needed and welcome for setup and take down.

New Providence Fireworks

As in prior years, the Emergency response Team has been asked by the New Providence Police to provide communications assistance at the fireworks. Contact K2JV for details.

SCIENTIFIC TIDBITS

JUICE FROM HEAT AND LIGHT

The idea of deriving electricity from ambient light, heat, vibration, electro-magnetic waves et cetera has attracted increased interest over the last few years. However, the amount of power available from such sources is limited as compared to what we can draw from power plants and batteries. A device that harnesses only one ambient source has a corresponding limit on its output. Therefore, a device that draws off two or more of these simultaneously would have obvious advantages.

At the IEEE International Electron Devices Meeting last December, Fujitsu Labs announced the development of such a hybrid device which can generate electricity from either heat or light. According to Fujitsu, the material is efficient enough to produce power even from indoor lighting (in the photovoltaic mode) and from heat in its thermoelectric mode.

By changing the electrical circuits connecting two types of semiconductor materials (P- and N-type), the device can function as a photovoltaic cell or thermoelectric generator. As a potential application, the company cites sensors that are used to monitor such things as body temperature, blood pressure, pulses, and so on. Such devices could be powered by either light or heat, and if either one is insufficient, one source could be used to augment the other. An added benefit is that it can be manufactured from cheap organic materials, so production costs should remain low. Fujitsu will continue to develop the concept for increased performance and hopes to commercialize the technology by 2015.

**Jim Brown
WB2EDO**

Kids Day, Summer 2011

Kids Day in New Providence was a success if you count the number of contacts made (log on next two pages). If the criteria is number of participants, it was not so good. This seems to be the norm for summertime. Too many other activities.



Some of the operators

Kids Day June 18, 2011 HF QSO's

20 Meters

1 W6MS	17:48 Jim	VA	BLUE	MAYCEE
2 N2ZV	18:00 Whitney	VA	GREEN	MAYCEE
3 N8OGI	18:04 Greg	OH	BLUE	MAYCEE
4 KJ4DMI	18:09 Matthew	VA	BLUE	MAYCEE
5 AA3CY	18:20 Mike	PA	GREEN	MAYCEE
6 WR8R	18:32 Joey	MI	ORANGE	VAANI
7 KD8NJZ	18:36 Evan	OH	BLUE	VAANI
8 KB3ITJ	18:40 Jerry	PA	RED	VAANI
9 W2REA	18:50 Lillian	NEW YORK	BLUE	MANASI
10 K0UXC	19:39 Gary	SD	BLUE	THERESA
11 NG1P	20:04 Bill	ME	GREEN	THERESA
12 WS5J	20:09 Gary	TX	BLUE	THERESA

VHF QSO'S

2 Meters

1 WB2QOQ	RICK		BLUE	LEV
2 AD2AD	Tom	KENILWORTH NJ	GREEN	LEV
3 WA2KES	18:54 Ernie	FORKED RIVER		ALEX
4 N2MDX	18:56 Michael	BEECHWOOD	BABY BLUE	ALEX
5 W2/M0MKB	19:01 Bharat	ELIZABETH		ALEX
6 K2DOV	19:04 Charlie			ALEX
7 CX6CAH/W2	19:09 Nestor	MIDDLETOWN	RED	ALEX
8 W2/M0OKB	19:12 Bharat	ELIZABETH	PURPLE	ALEX
9 KC2YNL	19:20 Ralph	FREEHOLD, NJ	BLUE	ALEX
10 W2/M0OKB	19:23 Matthew	ELIZABETH, NJ	BLUE	ALEX
11 W2AIQ	19:29 Mike	TOMS RIVER, NJ	BLUE	ALEX
12 WA2UEE	19:33 Bob	BLOOMFIELD, NJ	BLUE	ALEX
13 KD2AAW	19:38 Ed	SKILLMAN, NJ	GREEN	ALEX
14 K2MUN	19:42 David	MURRAY HILL, NJ	BLUE	ALEX
15 KC2NKD	19:52 Bob	HILLSIDE, NJ	BLUE	ALEX
16 K2DLS	19:58 Dan	SANDY HOOK, NJ	BLUE	ALEX
17 KA2CJF	20:01 Rick	GALLAWAY, NJ	BLUE	ALEX
18 KC2YYY	20:04 Jalil	WOODLAND PARK, NJ	BLUE	ALEX