# MOUNTAIN SPARK GAPS

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

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

**VOLUME 46 January 2011 NO. 1**

# UPCOMING EVENTS

**Regular Meetings**
**Monday Jan. 24 & Feb 14, 2011**
**7:30 PM**
**Salt Brook School**

**February 13, 2011**
**NPARC FM VHF/UHF Sprint**
**See website for details.**

**February 25, 2011**
**Annual NPARC Auction**
**Flyer Attached**

## 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 2011

President: N2KDK, Paul Campano
908-508-9595
Vice Pres.: K2MUN. David Berkley
908-500-9740
Secretary: K2JV Barry Cohen
908-464-1730
Treasure: 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

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

Published Monthly by NPARC, Inc.
The Watchung Mountain Area Radio Club
P.O. Box 813
New Providence, NJ 07974



Editor: K2EZR Frank McAneny
Contributing Editors:
WB2QOQ Rick Anderson
WB2EDO Jim Brown


Climatological Data for New Providence for December 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 December, 61 deg. F (December 1)
Last December(2009) maximum was 62 deg. F.
Average Maximum temperature this December, 36.4 deg. F
Minimum temperature for this December, 15 deg. F (December 10)
Last December(2009) minimum was 14 deg. F.
Average Minimum temperature this December, 23.0 deg. F
Minimum diurnal temperature range, 6 deg. (23 - 17 deg.) 12/14.
Maximum diurnal temperature range, 24 deg. (61 - 37 deg.) 12/1; (45 - 21 deg.) 12/13

Average temperature this December, 29.7 deg. F
Average temperature last December, 32.4 deg. F

**PRECIPITATION** -
Total precipitation this December - 3.12" rain; (Snow -out of town during Christmas holiday blizzard)
Total precipitation last December - 6.79" rain/melted snow; 10.5" snow

Maximum one day precip. event this December; December 26(no snowfall record).
Measurable rain fell on 3 days this December, 7 days last December.
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Rick Anderson
1/11/11


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

Additional club Call Sign W2FMI
Through the efforts of K2JV, the club has obtained the call of the late Jerry Sevick.
A special thanks to Barry and to Jerry's family making this happen

This call will be used in future events in addition to N2XJ.

## President's Column

*Not available at press time.*
(Hint, Hint)

## Auction

**Does your shack have equipment that has not been used in years?**
**Do you have inoperative gear that is going to get fixed "some day"?**
**Check around and see what can go. The annual auction is a good way to clean house, give yourself a little more room, make some money and help the club. There are a lot of hams in the area who are not club members, so spread the word.**

## Digital Net

**The digital net has been moribund for some time. Anyone interested in resurrecting it asked to get in touch with Dave K2YG. This net was a great place to try modes other than PSK and RTTY without bothering anyone.**

# AUCTION

## And Flea Market

## Friday Evening February 25, 2011

**(snow date: Friday March 4)**

**Doors open at 5:30 pm for sellers and 6:30 p.m. for buyers**
**Auction starts at 7:00 p.m.**

## New Providence Municipal Center Gym
## Academy St. (at Springfield Ave.)
## New Providence NJ

**Driving directions on next page**

**Some of New Jersey's most highly prized and valuable radio, electronic, audio, and computer items available at the Auction or post-auction flea market.**

**$5 Admission – Unlicensed Non-buyers and Children Free**
**Food and Beverages Available - Door Prizes – Free parking**

**Same as Last Year: NO COMMISSION charged to sellers.**

**Sellers: please visit the "Sellers Page" at http://www.nparc.org/sellers.htm for important selling information. Donated auction items welcomed!**

**Come at 6:30 p.m. to inspect auction items!**
**For additional information:**
**Visit http://www.nparc.org/auction.htm**

Driving Directions to the New Providence Municipal Center Gymnasium

The New Providence Municipal Center's Gymnasium entrance is on Academy Street in New Providence, NJ.

Parking: You can park in the Municipal Center lot or on the surrounding side streets. Please do not park in any private lots or you risk a ticket/tow, especially in spaces reserved for the First Aid Squad.

GPS Coordinates: 40.70740, -074.40405

**From the Garden State Parkway traveling north**: Take GSP exit 142B onto I-78 westbound. Follow directions From I- 78 Westbound below.

**From the Garden State Parkway traveling south**: Take GSP exit 142B onto I-78 westbound. Follow directions From I- 78 Westbound below.

**From I-78 Westbound**: Take I-78 exit # 43. Follow exit ramp, which will place you on Diamond Hill Road. Continue on Diamond Hill Road to the end of the roadway. (Name changes from Diamond Hill Road to Union Avenue after second traffic light.) Continue on Union Avenue which ends at Springfield Avenue. Turn right and continue for approximately 2 miles through second traffic light (the center of New Providence). Turn left onto Academy Street. Municipal Center and Gym entrance are on right.

**From I-78 Eastbound**: Take exit 44. At the bottom of the exit ramp, turn left onto Glenside Avenue. Go about 1⁄4 mile and look for your first left, Glenside Road, which goes under Route 78 and up a hill to your first light. Continue through that light, Glenside Rd. becoming South Street. Continue down the hill to the second light at Springfield Ave. Turn right on Springfield and then turn at your first left which is Academy Street. Municipal Center and Gym entrance are on right.

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**From Rt. 22 and the Blue Star Shopping Center**: East of the Shopping center, take Diamond Hill Road north to Mountain Avenue. Turn right on Mountain Ave and go about 1 mile to light at South Street. Turn left and proceed down the hill to the center of New Providence. At the second light, turn right onto Springfield Avenue. Then turn at your first left which is Academy Street. Municipal Center and Gym entrance are on right. **NOTE: The overpass and intersection east of Blue Star Shopping Center are currently under major construction, and traffic patterns are constantly changing.**

**From the Northwest**: Take I-287 south to Rt. 24 east. Take Rt. 25 to I-78 West and follow directions for From 1-78 Westbound above.

**Talk-in on W2LI Repeater**: 147.255 MHz +.600Tone 141.3

# Pictures from Kid's Day January 2, 2011



# SCIENTIFIC TIDBITS

## BATTERIES THE SIZE OF A GRAIN OF SALT

**UCLA scientists are developing lithium-ion batteries the size of a grain of salt. The team is designing a tiny solid electrolyte using nanotechnology. The battery would have a 3-deminsional structure, allowing it to hold more power than a regular 2-deminsional battery. Researchers are also trying to achieve the same power and energy densities as traditional lithium-ion batteries. If nano-batteries work, they would useful in a host small electronic equipment, including medical implants, micro-robotics, cell phones et cetera. The key word here is "if".**

## MESH SENSORS

**Stanford University scientists have created a fiber mesh embedded with sensors designed to monitor an airplane's structural integrity and outside temperature. When wrapped around an aircraft, the sensors could help prevent microscopic cracks from developing into catastrophic failures. Made from plastic polymer, the mesh is designed so it does not add significant weight or drag to an aircraft. This technology could have a myriad of uses including autos, packaging and medical devices. Coupled with programmable chips, the amount of information that could be derived from this sensor mesh would really be astounding.**

## ELECTRICITY FROM THE AIR

**Brazilian scientist say that electricity captured from the air could be used for recharging electric cars. The team is working on developing special panels to capture atmospheric electricity. The method would work best in areas with high humidity. They also say the system would also prevent lightning strikes.**

**I would think that they would do better in finding a way to predict where and when lightning strikes take place and work out a way to capture that power. I think there is an old saying that says something about how difficult it is to capture lightning in a bottle. But if they could, we would not need any more generating plants.**

**Jim Brown**
**WB2EDO**