



QRZ NEWS

A MONTHLY PUBLICATION OF
SOUTHERN PENNSYLVANIA AMATEUR RADIO CLUB, INC
PO BOX 1033 - LANCASTER, PA 17608-1033

(Founded June 1960)

AN AFFILIATED SPECIAL SERVICE CLUB OF THE ARRL, INC.

"Public Service through Communication"

Website: WWW. K3IR.org

Email address: k3ir@arrl.net

Repeaters: 145.230 - 449.975 - Packet 145.030 - ATV 923.250, FN10se
Club site 1715 Breneman Road, Rapho Twp. (Manheim P.O. 17545 no delivery)

July 2011

President's Message

Horses and Elephants and Geese – Oh My!

As some of you know I had been working "part time" as a ride operator at Hershey Park. I found that a part time job at the park equated to full time hours so I have taken a leave of absence until fall. However I still have one good story to tell

One of the requirements is to log any unexpected ride closings – for example, bad weather or a breakdown.

Earlier in the summer I was assigned to one of the roller coasters. When we arrived we found a mother goose and 5 goslings wandering around inside the track area. It seems that maintenance had left a gate open and the geese took advantage of the new found food supply. As we started our pre opening tests the goose became agitated and wandered into an area where the track is close to the ground. The ride lead that day decided to temporarily close the ride. She called rides base to report we were closing due to geese in the track and asked what we should do. Amazingly no one knew what to do. Finally a decision was made to call the zoo and let them deal with it. While waiting we discussed how we were going to log this one. Geese on the track?

A few weeks later I was manning the down chutes at the Coal Cracker. The person

assigned to this location monitors the boat traffic through the final drop back to the station and stops the ride if there is a problem. If there is an unexpected stoppage anywhere in the system, a series of gates slam, and I do mean SLAM shut and stop the boats. Minors are not allowed to work this position and a lot of people are uncomfortable with the need to negotiate a series of cat walks and ladders to reach the control panel so I found myself assigned here often.

It wasn't a real busy night so I was not too surprised when several empty boats went by. Then I noticed that I hadn't seen any boats for an unusually long time. As I was looking for approaching boats the gates all closed LOUDLY. The ride had been shut down. I

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called the station to find out what was wrong, only to be told that rides base had told us to close so we would not disturb the elephants! As I looked at the Norfolk Southern track nearby I

saw a circus train stop behind the nearby train station. Yes, we had an elephant closure, but the elephants were behind schedule. After watching a parked train for about 30 minutes my relief operator came and I went on break. When I returned the ride was up and running. The guy who replaced me got to watch the elephants and horses loaded on the train. Nobody told us to expect horses too!

Recently SPARC took part in ARRL Field Day activities. We didn't experience any horses or elephants or geese (there may have been some geese nearby – I'm not sure) but we did have some unexpected happenings. What Field Day would be complete without an antenna that refuses to load up, or a rig that doesn't operate properly. But we also had some pleasant surprises, such as neighbors dropping in, not to complain, but just to visit and see what those crazy guys were doing. Or how about some long lost members who came out to get reacquainted. Then there was the 80 meter dipole that for some unknown reason loaded up perfectly on 15 meters and yielded dozens of contacts. It was a fun day with lots of surprises. I am sorry I didn't have more time to spend there, to visit the almost constant flow of visitors to the sight through the afternoon and to do some serious operating.

My thanks to those club members who contributed to the success of Field Day 2011.

Harry, WA3FFK

**NOTES ON THE JUNE 2011
MEETING OF THE
SOUTHERN PENNSYLVANIA
AMATEUR RADIO CLUB (SPARC)**

Held Tuesday, June 28, 2011 at 7 PM at the
Rapho Township Municipal Building

The following members and guests were present:

George Gadbois	W3FEY
Mike Warner	N3XPD
Gerry Wagner	KB3SSZ
Paul Herr	KD8WY
Don Pickel	KB3LHT
Ted Freedman	K3KSA
Dan Milligan	KA3KHR
Jim Silvius	KW3E
Paul Miller	N3APD
Lou Mangini	N3VNO

The meeting was called to order at 7:10 PM by George Gadbois, with a round robin introduction by name and call.

The speaker for the evening, Phil Theis, K3TUF, was introduced and a very interactive presentation on solar energy ensued.

A brief business meeting followed. The May meeting minutes, as published in the newsletter, were reviewed. The minutes were accepted as published.

Mike Warner, N3XPD, gave the treasurers report for June. The report was accepted as read pending the annual audit.

Old Business

Don Pickel, KB3LHT, reported on the very successful Gretna Glen operation. Everyone present at Gretna Glen was impressed by the demonstration and expressed thanks to SPARC.

New Business

Ted Freedman, K3KSA, offered a four drawer file cabinet to the club. There does not appear to be available space for the cabinet.

There being no other business, the meeting was closed at 8:28 by a unanimous vote.

More discussion on solar energy followed.

Reported by:
George Gadbois, W3FEY

Field Day Report

Here are the results of Field Day:

We operated under class 3A, section EPA.
We earned 750 Bonus Points as follows:

100% Emergency Power	300
Media Publicity	100
Set up in Public place	100
Information Booth	100
W!AW Field Day Message	100
Submitted via the web	50

We had a total of 8 participants.

We submitted a Claimed Score of 832 from a total of 416 QSO's.

Paul Miller, N3APD

Coming Events

SPARC programs for 2011

Tuesday, 26 July Field Day report & debriefing. Field Day committee & membership.

Tuesday, 23 August will be a Play Night at the club site. There will be a short business meeting. **Note that this meeting will not be at the Rapho Twp. municipal building.**

If you would like to offer a presentation for a future meeting, please contact George, W3FEY. The September program must be at the club site or another venue. The Rapho Twp meeting room is not available in September.

August 3, 2011, 6:30 pm, AELC (Astronomy Enthusiasts of Lancaster County) meeting at the Lititz Public Library
Presentation: ExtraSolar Planets by Mike Smith

August 20-21 [10 GHz and Up Contest \(round 1\)](#)

September 10-12 ARRL [September VHF QSO Party](#)

Editor's Notes

Six meters is a popping this summer. We are now past the peak of the Es season, but there should be a lot of good DX ahead for the next month or more. Look for double hop Es late in the evening to the Pacific Northwest. Stations there frequently hang out above 50.180MHz to avoid the single hop QRM which is a big problem lower in the band.

Keep the recycle materials coming. Recycle prices are up a little. This is helping SPARC pay down our mortgage balance.

I always need material to publish in the newsletter. Keep the cards and letters coming.

73, George, W3FEY

Six Meter DX Report

15 July 2011

It's been an interesting summer on six. The summer season started late but has been pretty good since the end of May. KG4EM was active from Guantanamo Bay on 5/31 and gave out a new and rare DXCC to quite a few people. On June 4 there was a good opening to Europe. I worked EA, CT, G, HA (Hungary), a new DXCC for me, EA6, F, YU, GW, and EI. The next day the opening continued. I worked EA8, CU, 9Y, FG, YV, PV, FM, and F. The opening was unusual in that stations from the Caribbean and Europe could be heard at the same time. On June 11th, VHF contest weekend, I worked PJ4E (Curacao) for a new DXCC. That weekend NW0W near St. Louis worked over two dozen Japanese stations.

On June 18th I caught another opening to Europe and worked OE, EA, E70 (Bosnia-Herzegovina) a new DXCC, GM, VE1, HK, HP, and P4. On the 23rd I worked the Saba DXpedition, PJ6D, for another new DXCC. On June 25th there was another opening to CT, EA, 9H1, IS0, and I. The band also opened to the Caribbean and I worked FG, V2, and PJ7 (St. Maarten), a new DXCC. OA4TT (Peru), very rare on sporadic E because of the closeness to the geomagnetic equator, YV, and HK were also worked. On June 29 JW7QIA (Svalbard) came through for another new DXCC. This contact was unusual because of the extremely high latitude of that station. That evening I also worked a Japanese station, JE1BMJ. on SSSP. I heard several other JA's but the idiot blind callers covered them up. That evening K6QXY and KR7O also worked BA4SI (China). These contacts were undoubtedly firsts and new DXCC.

July has also been very good. Last Friday, July 8th, there was a tremendous opening to Asia and Europe, which I missed. The band was open from about 8:30am local until 2:30pm. During the opening N3DB in FM18 was called and worked by A45XL (Oman). Dave worked over 140 stations in that opening.

More locally, another Dave, NZ3M, worked 4X4 (Israel), SV5 (Dodecanese), 5B4 (Cyprus) and SV8 (Crete) for new DXCC from Elizabethtown. NZ3M also heard CT1HZE on 70MHz with his unmodified FT-847 and 6 meter yagi. This may well be a new amateur reception record on 70 MHz. In that same opening A92IO (Bahrain), 4X4DK, and TA (Turkey) were worked by a number of east coast stations. A whole bunch of stations in this area worked SV, SV5 and SV8.

Because of work I missed several new countries including A92, SV5 and SV8, UT, and perhaps A45. Still, it's been pretty good.

73,

Chris W3CMP

More Six Meter DX Reports

6 July 2011

Last night on 6 meters with 4 elements at 20 feet and 100 watts I worked:

V44KAI, 9Y4D, HI8LAM, P43A, YN2N, TI&/N5BEK, TI5KD, TI5XP

Also heard and tried to work Brazil (too weak)

And on Saturday right after I put the tower and antenna back up I worked:

PJ6D, PJ76, FM8DY

Randy Maurer, WA3HLP

Ed note: How much do you have to spend to work 3000miles + DX on six meters? Let's look at the local stations mentioned above.

From my experience, a loop antenna at 25' doesn't do it. You can work out to about 2500 miles with luck and patience.

A 4 el beam at 20' and 100w is not a super station; although, Randy does have a super location.

If you drive by Chris Patterson's house you will see no antenna on top of his tower. Power is not in short supply.

Dave Clouser, NZ3M, has a high performance station in Elizabethtown. See Chris Patterson's report above for results.

TE Systems 0552G (400 watts) M2 6M7JHV 7 element antenna (31ft boom) @ 40ft



NZ3M antennas

What does a super station look like? See <http://k0ha.com/>. Bill is easy to work and the first station one hears from Nebraska.

Then there is Lancaster native Lance Collister, W7GJ. <http://www.bigskyspaces.com/w7gj/>

Chris Patterson might put an antenna on his tower.

ARES/RACES



As part of the SPARC commitment to emergency communications, the SPARC repeater system is maintained as available for linking with other area repeaters.

Lancaster County RACES VHF Net is held on the first Tuesday of the month at 2030 hours local time on the 145.310 MHz repeater in Rawlinsville.

The Lancaster County primary ARES/RACES repeater is on 145.310 MHz with minus offset and 118.8 PL.

Combined York County Amateur and ARES/RACES NET convenes at 8:30 PM (2030) Mondays on 146.97.

Pennsylvania RACES HF Nets are held at 3993.5 kHz LSB on all Sundays except holidays.

The statewide net is on the first Sunday of the month at 0800 hours local time.

The Central Area (including Lancaster County) net is at 08:30 local time.

EPA NBEMS Net, Tuesday, 7:30pm local EST,

3.5920mhz Mode: Olivia 8/500 1khz,
Net Mgr: WA3WSJ@arrl.net

SPARC Nets

SPARC holds nets every Tuesday at 2100 local time on 145.230 MHz minus offset and a PL of 118.8. The

449.975MHz repeater is linked to the 2m repeater for the net.

As reported last month, SPARC is starting a digital net to immediately follow the voice portion of the Tuesday night net as listed above. The start date for this net is being delayed until Fall because the NCS, Jon Rudy, is traveling out of the country much of the time. When available, Jon will provide assistance on request. JonK3QF@gmail.com

Club Officers

President Harry Bauder – [WA3FFK](http://www.wa3ffk.com)
Vice-President: George Gadbois – [W3FEY](http://www.w3fe.com)
Secretary - Dave Sarraf - [N3NDJ](http://www.n3ndj.com)
Treasurer - Mike Warner – [N3XPD](http://www.n3xpd.com)
Repeater Trustee - Dave Payne - [N3LOM](http://www.n3lom.com)

Nearby Nets of Local Interest

York County Sponsored Nets:

Tuesday Nets DIGITAL NET -- Tuesday, 8 PM on the York 146.97 Repeater --

The first 15 minutes or so will be open to questions. DIGITAL Communications testing will continue after that.

Friday Digital Net

Friday evenings starting at 8 PM on the 146.610 (PL:131.8 Hz) EARS repeater on Ephrata Mountain.

This is an excellent Digital net called by Bob, AB3GF. Check in is by digital, BPSK125.

It is an informal, well run net with plenty of Digital transmissions along with discussion by voice.

PACKRAT MONDAY NIGHT NETS

Visit the Mt Airy VHF Radio Club at:

<http://packratvhf.com/airtimes.htm> for the latest information on VHF/UHF nets.

QRZ News Publication

QRZ News is published monthly approximately ten days before the monthly meeting. Please submit items for publication as early as possible. If a large amount of editing is required, earlier submission is required.

We operate on an exchange basis with other non-commercial publications. Articles printed in QRZ News may be reprinted in a not for profit publication provided proper credit is given

QRZ News is archived at http://www.k3ir.org/QRZ_News.html. Documents are in PDF format.

A Bit of Nostalgia! Assateague Island mini-DXpedition

By James L. Ibaugh, [AA3C](#)
& Sharon G. Ibaugh, [N3CXY](#)

I always wanted to make a trip to the Outer Bank Islands and Kitty Hawk Memorial Park. Our vacation days had already been used down to five days left for the rest of the summer of 1989. To boot, the Sunspot Cycle was to peak next year and the 10 meter band was already hopping with over seas DX. After extended debate with my boss, N3CXY, the CO, *BRIGADEAR*, we came to an agreement. We will plan and execute a one week (and two week ends) "miniDX- pedition" to Assateague Island and surrounding points of interest while working mobile DX along the way.

The *BRIGADEAR*, being the excellent tactician she is, laid out a plan of attack and division of tasks. My assignment was to get the vehicle (1979 Ford T-Bird) ready for the road trip to the shore. I also got the dual radio setup ready for some long distance mobile work. Our previous trip rules stated that the driver would keep his or her hands off the microphone and keep both hands on the steering wheel. The "shotgun rider" would be the official control operator. We took turns driving. Her self assigned tasks were the clothes packing , picnic supplies, making hotel or motel reservations and acquisition of an up to date set of AAA maps. We had been to Ocean City

MD, several times before and liked that route down to the shore through Woodstown, NJ. Late September weather was very cooperative and we had fair temperatures and sun all week.

The two of us have a thing about picnics, we go out of our way and make any excuse to have an unplanned spontaneous picnic in the strangest places and times. For that we had a standardized, fully fitted out picnic kit packed in the car trunk. It was not out of character for the two of us to have a picnic or two each day of our vacation week.

I had been using an Icom IC-22U 2m/10w VHF unit mounted on top of a Uniden President HR-2510 all mode 10m/25w HF mobile unit. Luckily the mobile mounts bolted together and they bolted to an old Tandy weighted CB hump mount. I added two stout bungee cords to add to the stability. After considering the low power of the IC-22U at 10 watts (OK around town but not for the open road), I substituted my base packet radio, the much more powerful and very more programmable Icom 25A, American model.



Icom IC-25E(A) 25 watt!
Uniden President HR-2510
All mode 25W 10meter Tranciever.

I like stacking radios on top of radios, larger on the bottom, smaller on the top, it works for me. The radio stack rode well on the weighted

and tethered hump mount. Antennas were well tested.

Our antennas were a $5/8^{\text{th}}$ wave 2m Tandy mag mount on the trunk lid and a standard $1/4$ wave stainless steel CB whip on a bumper mount which was fed 4 inches higher than the CB feed point to lower the SWR to about $\sim 1.35:1$ at or near 28.350MHz. I moved the tap up and down the coil until I got SWR down as low as I could.

Formulas for length:

$FT=585/\text{MHz}=5/8$ wave. = 20.63ft @28.35MHz

$FT=234/\text{MHz}=\text{Quarter w.}$ = 8.25ft @28.35MHz

Long before our trip, I experimented with two $8\ 2/3^{\text{rd}}$ foot stainless steel rear bumper mounted CB whip antennas. I fed the “starboard” (right side) whip as a quarter wave and the “port” (left) whip as an inductive (by coil) fed $5/8^{\text{th}}$ wave. I got both whips down to less than 1.5:1 SWR. A standard Tandy stainless steel spring based whip has an electrical length of 8.67ft at 27MHz. There is only 0.42ft (4.05”) difference between CB and Ham quarter wave whips. You can get close to 50 ohms at wave lengths, $5/8^{\text{th}}$ wave and $1/4^{\text{th}}$ wave, which is where the SWR was the lowest. The feed point on my “starboard” whip was raised up to the middle of the base spring to reduce the electrical length by about 4 inches. This yielded about 1.3:1 SWR. The “port” whip needed a coil with 8.96 ft of electrical length to add to whip to resonate as a $5/8^{\text{th}}$ wave at 28.35MHz and yielded about the same SWR. The coil had an adjustable feed point. I used an antenna switch and tested both antennas on the air. I found that there was little difference between the two whips. The quarter wave was easier to tune and maintain. The right side “Starboard” whip wins and stayed put. It worked quite well in mobile service.

Measured the HR-2510 output at about 30 watts on 28.350MHz on my power meter. With the IC-25A's 25 watts power output, we estimated about 50 watts ERP on 146.520 MHz with the +3db antenna gain.

Got the oil and filter changed in the big red 1979 T-Bird and checked all five tires and balanced four running tires at 35psi. Checked the cells of the 900 amp hour heavy duty truck battery. AOK, ready for the trip. We had everything ready to go one week ahead of time and drove the half packed car to work until Friday.

Friday afternoon couldn't come soon enough for the both of us. Shari was the designated driver down Rt 30 to Rt 41 south. I was the “shotgun” and radio operator which was great because the 10 meter band was wide open to Europe and the Mediterranean area. There was a pile up on an EL2?? in Monrovia, Liberia, North Africa on about 28.550MHz and spread out +/- 50 KHz.

Working DX is 50% high power, big antennas and 50% timing, technique and persistence (or so I thought). We were near the Rt 41/141 split so Shari pulled off the road into a truck parking area. We changed places and N3CXY became the control operator and used her call sign. We sat there listening to the EL2?? Monrovia DX pileup. N3CXY picked up the microphone and made only one short call and waited. The EL2?? said, “All stations standby please. Will the YL Nancy 3, mobile station please call again. YL Nancy 3 station only.” The EL2 and N3CXY exchanged names, 59 signal reports and completed the contact, the pile up reemerged with more noise and QRM than before N3CXY's contact. I sat there shaking my head. I called that EL2 more than two dozen times in about 40 minutes from Lancaster to Hockessin (Del) and N3CXY bags the DX with one short call! There are some things I do not understand about ham radio DXing. I picked up the microphone and made about five more attempts to work the EL2 with no luck. Maybe I should use my falsetto to work DX.... ..

Back on the road again and watching the road signs, the tangle of roads in Delaware demands a singularity of attention. We passed

over the tall bridge over the Delaware River and heard the RRRA 147.015MHz repeater. As soon as we were in New Jersey the Lancaster signal disappeared. By the time we got to Ocean City the 10 meter band was closed and only short skip was heard.

In late September the motel, hotel and restaurant prices changed in our favor. We were able to stay in a better hotel at a much lower price than during tourist season. The wind coming off the ocean was cool but didn't keep us from walking the board walk. We sat on a bench on the board walk and watched the beach and ocean till we got hungry.

We ate at the local steak house where the locals congregate. We both had our 2 meter Icom IC-2AT HT's, each with external speaker-mics, along with us and our plastic name and call sign tags (hamfest stuff) pinned to our wind breakers. While we were eating our meal an older man introduced himself by saying "AA3C&N3CXY from W2???", welcome folks to OC." Nice friendly hams in OC. Later, after we finished our meal and were drinking our coffee and tea, a different ham, a K2?? introduced himself. He asked us if we were heading to a hamfest or returning from one. He had thought he may have missed a hamfest somewhere nearby. We explained that we were going to island hop down the



coast and maybe give out IOTA points. [Islands On The Air--NA](#) RSGB program. The friendly K2?? knew exactly what IOTA was because he participated in the old British

[IOTA-- RSGB](#) program for many years. He wished us good luck on our mini-DXpedition down the coast.

Assateague Island is 10 miles south and only a 30 minute drive from **Ocean City, MD**. It's IOTA registration number is "NA-139". However, the north end of the island is not the way to access the island. The best way and maybe the only way to find the Beach Access Road is to go south into Virginia and turn left on US Rt 175 and head towards NASA's Wallops Flight Facility (Wallops Air Field—3 runways) and stay on causeway Rt 175 (Chincoteague Road) to, where else, Chincoteague Island. Stay on Rt 175 (now Maddox Blvd.) on the island until you get to a CCW (right hand) traffic circle. Enter and stay on Beach Access Road (Va State Rt 2113) till you see the beach. There is lots of parking and sand.

We stopped at a little sandwich shop in Chincoteague Town and from their parking lot, worked IOTA stations looking for this island's IOTA# NA-083. Ten meters was in good shape for our day on Chincoteague. Tomorrow we will spend all day and picnic out on Assateague Island (IOTA#NA-139) and work more DX.

Alas, when we drove out to Assateague Island the next morning the 10 meter band wasn't open. We paused along our path to do some bird watching. I saw my first true blue hereon. There were so many different kinds of birds, I only recognized the birds that make their way into Lancaster County. A few uninvited sea gulls swooped down at Shari when she was holding her lunch, a tuna salad sandwich. We finished our lunch in the car. Just in time to catch the afternoon 10m band opening. There was as much interest in #NA-139 as there was in #NA-083. We filled two more log pages. Next year's 1990 sun spot cycle peak should be better than this year for MUF and band opening lengths.

The air temperature on the beach was cool, the off shore breezes kept us from sitting out very long. We did see, with the aid of my large 50X military style binoculars, a large pod of whales about a half mile off shore. There were other sea creatures bobbing their heads in and out of the water far out from shore but I was not steady enough with the binoculars to identify them.

We returned to the main land and continued our trip south toward Kitty Hawk and more DX. By Thursday both of us were running out of steam so we turned our big red T-bird north and headed home. We both needed the rest of the week to recuperate before we went back to work. We both considered our mini-DXpedition a complete success and an inexpensive enjoyable vacation.

We hope your mini-DXpeditions are as enjoyable as all of ours have been.

73's and Good Luck from

Shari *Jim*

N3CXY & AA3C

N3CXY@ARRL.NET

AA3C@ARRL.NET

N3CXY@AMSAT.ORG

AA3C@AMSAT.ORG

SPARC Visit to the Ron Frisbie Marconi Museum

SPARC visited the Marconi Museum on May 21, 2011. Jim Ibaugh has prepared an on line slide show of selected photos from that visit and posted it on the SPARC web site. See the guide below for usage tips.

George, W3FEY

How To Use The Simple Photo Show Basic Controls

By James L. Ibaugh, AA3C



[START] Enables the autosequencing of the photo or image stack. Start toggles with **[STOP]** which holds the sequencer at the image on display until **[START]** is clicked. The timer is set to 7 seconds per display. When the **[STOP]** is engaged the directional step controls are functional.

[||<<] Single jump to the top of object (photo or image) stack.

[<<] Single STEP back to previous image.

[>>] Single STEP forward to next image.

[>>||] Single jump to the bottom object or the last file in the stack. The step and jump controls are active during the rotational stack sequencing. Your browser must allow HTML and JavaScript codes to function in the PhotoShow program.

If anyone is interested in the HTML and JavaScript, all code elements are found at:

[HTML & Java Script School FREE!](#)

[Java Script Training School FREE!](#)

[FREE HTML CODE SAMPLES](#)

[FREE JavaScript CODE SAMPLES](#)

[FREE HTML5.0 CODE TUTORIALS](#)

My first implementation of "The Simple Photo Show" is "SPARC's Visit to Ron Frisbie's Marconi Radio Museum".

A link to that large stack is found near the bottom of [SPARC's K3IR.ORG Home Page](#).

Don't forget to click the browser's reload control to purge the old home page from the browser's memory cache. You may have to use Windows ZOOM controls

[CTRL+] or **[CTRL-]** to adjust image size.

Let me know which browser you are using

73's de AA3C – Jim

AA3C@ARRL.NET

AA3C@AMSAT.ORG



and if every function worked for you.



Dianne Gadbois photo

L-R Gerry Wagner, KB3SSZ; Gerald Wilson, KB3GNB; Ron Frisbie; Tom Kranch;



Dianne Gadbois photo

Restored 1928 Model A roadster