



JANUARY / FEBRUARY 2006

REMARCS

www.marc-radio.org

In November, 1976, a group of Amateurs who used the 147.06 repeater, then located at Villanova University, held the founding meeting of a radio club. The first open membership meeting took place the following month. Starting from a small group of '06 repeater users, this club grew in size and widened in interests to become the Mid-Atlantic Amateur Radio Club that we know today. During MARC's 30th anniversary year, each newsletter will feature some information about the history of our club and its members.

LICENSE TEST SESSIONS IN 2006

MARC will sponsor license examinations on the following dates this year:

February 4
May 6
August 5
November 4

All sessions are on Saturday mornings, and candidates arrive by 9:15 AM to complete the necessary paperwork.

Pre-registration is strongly encouraged, because if no candidates have pre-registered, the session is cancelled to avoid wasting the examiners' time.

For registration and information about the February session, contact **Bob W3ZQN** (rjlees@aol.com, 610-265-6032).

MEETINGS SHIFT TO THIRD TUESDAYS FOR 2006 -- STARTS JANUARY 17

No matter what night of the month the club meetings are held, some members are not able to attend because of other responsibilities. After two years of club meetings on the fourth Tuesday of the month, the board of directors voted in October to change the meetings to the third Tuesday of the month. The reason for doing this was to offer an opportunity to attend meetings to a different sub-set of our 150 members. We realize that some members who could come on the fourth Tuesday won't be able to attend on the third Tuesday, but we think it's important to shift meeting nights every few years so that no one is permanently left out.

Meetings will continue to be at the Tredyffrin Township building at 8 PM in the Emergency Operations Center room. Directions to the township building are on the club's web site. Click on "Club Information" and then on "Meeting Information."

TAKE A QUICK TRIP THROUGH MARC HISTORY AT
<http://home.comcast.net/~n3kn/history/timeline05.html>

The URL is case-sensitive. This document may take some time to download if you have a dial-up Internet connection. Enjoy!

2006 PROGRAM TOPICS TO SPAN THE RANGE FROM HISTORICAL TO CUTTING EDGE

January 17 -- Geocaching is a form of high-tech treasure hunt or paper-chase using GPS technology. GPS skills are increasingly important for ham radio emergency communicators. Learn more at www.geocaching.com, then enjoy the presentation by **Carter Craigie N3AO** and **Bart Feroe K4BF**.

February 21 -- **Doug Fearn K3KW** will tell us about the American Morse code, its history and how it differs from the International Morse used by most radio Amateurs.

March 21 -- **Jim Samuels W3BG** will present the SDR-1000, a software-defined Amateur Radio transceiver made by FlexRadio Systems. The rig was reviewed in last October's *QST*, and you can check out the web page at www.flex-radio.com.

April 18 -- The annual junk auction! Time for spring-cleaning the shack and having some laughs at the annual MARC sell-a-thon.

May 16 -- **Dennis DeMarco KA3QOT** will introduce us to the fun of mobile contesting. Unable to work HF from home, Dennis has had a lot of fun in the Pennsylvania QSO Party from his automobile at places like Valley Forge Park. Is HF out of the question at your home location, too? You'll want to learn how Dennis goes mobile, just in time for Dayton so you can pick up the necessary stuff out there.

June 20 -- **Ted Jennings NT3J**, who works for Exelon, will talk about how power plants work. How does the power company generate the juice that makes our rigs run when we switch on the power supply?

ABOUT MARC

wb3joe@marc-radio.org
http://www.marc-radio.org

MEMBERSHIP MEETINGS

4th Tuesdays, 8 PM, Tredyffrin Township
Bldg, Wayne/Berwyn. Guests welcome.
Smoke-free. Handicapped-accessible.

BOARD MEETINGS

4th Thursdays, 7:30 PM, Paoli Hospital.
Members may attend as observers.

SYSTEMS

145.13/R, 147.06/R, 224.42/R, 445.675/R
145.13 & 147.06 linked, CTCSS 131.8 Hz
Webmaster: Steve N3ORH (610-327-8666,
smaslin@marc-radio.org)

NETS

Club Net, Sunday, 8:30 PM
Traffic net, M/W/F, 8:30 PM
All nets on linked 145.13/R & 147.06/R
Net Manager: Dick K3IIN
(610-688-0874, k3iin@arrl.net)

DUES

\$15 Full (licensed Amateurs)
\$5 Associate (unlicensed persons)
Family rate \$5 per ham after first
member pays full dues.

NEWSLETTER

REMARCS is published in the odd
months, edited by Kay N3KN
(610-993-9623, n3kn@arrl.net)

BRING A FRIEND
TO A MARC MEETING!

VOX

Congratulations to president **Steve N3ORH** and wife **Natalie Maslin** on the birth of their daughter **Haley Marie** on November 7. Welcome new members **Ronald KB3MMN**, **Joe K3JV**, **Chris KB3MUC**, and **Paul KB3MUD** to the club. Chris and Paul have sequential callsigns because they took their exams with MARC in November. Condolences to **Bob KB3FSQ**, whose mother passed away in November. **Ann KA3EIW** has moved to West Chester. **Gene N3HG** is making a good recovery following a hip replacement. He and **Judy N3MBW** send 73 to all from Maryland. **Lou WX3I** picked up the Wednesday night traffic net control duties after **Dori W3IBH** had to step aside owing to other responsibilities. **Carter N3AO** recently modified a rig so it will work on the 60 meter ham channels. Are you on 60 meters?

Hats off to all the MARC members who took part in the Limerick Generating Station drill with Montgomery County and Chester County ARES/RACES in November. Amateur Radio provides backup communications in this large, important exercise held every other year. Both MontCo and ChesCo ARES/RACES need additional active members. Ask **Dick K3IIN** about MontCo and **Carter N3AO** about ChesCo. Don't let other hams be the ones who earn the reputation for service that all hams benefit from!

PUBLIC SERVICE

MARC's last public service communications event of 2005 was the Vietnam Veterans / Veterans Day Memorial 5K Run. It was held at the Norristown Farm Park in Norristown on Sunday, November 13.

In the past this event has sometimes been held in very cold, unpleasant weather. In 2005, however, the day was sunny and mild. Members and friends of MARC who did the communications were **Bob N3JIZ**, **Lou WX3I**, **Ted NT3J**, **Roger N3VBZ**, **Dieter K3DK**, **Carter N3AO**, and **Sue K3SUE**. There were no accidents or injuries to the runners or the public.

At events like this one, hams are stationed along the event route. Their job is to radio information to the net control station, who sets up at a location where it is convenient to speak with the event managers. Communications can be on FM simplex or on a repeater, depending on the distances and terrain involved.

The hams along the route notify the net control if medical or police assistance is needed near their location, or if some kind of logjam is taking place that event sponsors need to know about. The net control station sees that event management is informed about the accident, emergency, or problem. Most events go off without a hitch, but hams have sometimes been instrumental in saving lives -- a cyclist develops chest pains, a horseman is thrown and injured, a canoeist falls in the river and gets hypothermic, or a runner falls and breaks a bone.

The events we serve are over by lunchtime. They are not difficult, require no previous experience, and allow you to give something back to the community for the privilege of being a Radio Amateur. Equipment needed is typically a VHF/UHF hand-held or mobile rig. For a hand-held radio, an after-market gain antenna (rather than a rubber duckie) is recommended, along with an earphone in case the environment is noisy.

Please join the team of MARC public service volunteers for 2006. We know you have a life and won't be able to help at every event, but you can help at some of them! Contact **Bob N3JIZ** (610-687-4587) for more information and to get on the list.

LICENSE TEST SESSION REPORT

MARC sponsored a license test session on Saturday, November 5, in Bryn Mawr. Our examiner team served three candidates.

One candidate earned a new Technician license and another, who had been a ham in the past, went from zero to General class. The third candidate was not successful this time.

The team of examiners was made up of **Bob W3ZQN**, **Paul NX3Q**, **Bob W3SA**, **Bob KA3NIQ**, and **Dennis K3DS**.

This was the 78th exam session MARC has held at the church over the past 20 years. Originally we were invited to use the facility by church member and MARC member **Tom Powell K3YPO**, who acted as host and facilitator for each test session until his death in early 2001. Our exam sessions are held in Tom's memory.

FROM THE EDITOR'S JUNK BOX

I turned off the TV, switched off the bedside light, pulled up the covers -- and heard somebody snoring. This was seriously creepy-strange because I was in a hotel room alone. I decided the QRM was being emitted by the person next door, whose headboard must have been exactly opposite mine on the other side of the interconnecting wall. To be that loud through a soundproofed wall, the snores must have sounded like a snow-blower in the room of origin.

This mystery snoozer with the overactive honker made me think about how often we affect the lives of others without being aware of it. I wonder how many new licensees have dropped out of Amateur Radio because people ignored their first tentative calls on the repeater? I wonder how many lifelong friends some of us never made because we wouldn't QSO with someone we didn't already know? What differences might we have made in their lives, and they in ours? Fortunately, MARC has a lot of members who will go back to unfamiliar callsigns and offer a welcome to newcomers -- new to ham radio, new to our area, or just new to our repeaters. That's part of our club history which is essential to carry into the future.

Amateur Radio has changed a lot in the 30 years since MARC began as a repeater user group. Nothing in the 1976 ham shack involved personal computers -- no logging software, rig control, terminal node controllers, keyboard CW, rotator control, antenna analysis, soundcard modes, DX clusters, rig programming, networking of multi-operator stations. A few devices used microprocessors, but the PC itself was several years in the future. No software-defined radios, no digital signal processing. No rigs that work from VHF to 160 meters. Callbooks were actually books -- thick ones on thin paper with minuscule print. You didn't have access to 60, 30, 17, and 12 meters. FM repeaters were still new enough to be a little controversial. There were no ham radio web sites, listservers, or blogs. You bought stuff at stores and hamfests, not on 800 numbers and eBay. All hams had passed a Morse code test, and all hams had HF privileges. The FCC administered tests and controlled the exam content, not your fellow hams. There were no HT's so small they should be sold with magnifiers. But in 1976, maybe fewer hams wore bifocals!

The first HT I ever used in the early 1980's was so simple, anyone with a functioning brain cell could figure out how to work it in less than 5 minutes. (*Try that with today's HT's!*) You set the frequency by rotating 3 thumb-wheels, like on a luggage lock. A switch selected the offset -- plus, minus, simplex -- and another one let you add 5 kHz for repeaters whose frequency pairs don't end in zero. Not much to mess up -- though most of us did, one time or another.

What endures all changes in technology, rules, regulations, and necktie width is the camaraderie of Amateur Radio, with its unique blend of service to others and fun for ourselves. I have no idea what the technology and license requirements will be like 30 years in the future. But if the dedication to service and the spirit of adventure are still there in the year 2036, ham radio will be alive, well, and changing people's lives. -- **73, Kay N3KN**

MEETING CANCELLATION POLICY SET

When hazardous weather or other unusual circumstances occur, the club president will decide by 4 PM on the meeting date whether or not to cancel the meeting. In case of cancellation, members will be notified by e-mail and by announcements on the MARC repeaters.

When hazardous weather threatens on a club meeting day, monitor the MARC repeaters after 4 PM and check your e-mail. It's possible the township could require use of our meeting room, causing last-minute cancellation, but that is unlikely to happen very often.

BOARD OF DIRECTORS, 2005

PRESIDENT

Steve Maslin N3ORH 610-327-8666
smaslin@marc-radio.org

VICE PRESIDENT

Bart Feroe K4BF 610-367-4288
k4bf@arrl.net

SECRETARY

Dick Thompson K3IIN 610-688-0874
k3iin@arrl.net

TREASURER

Carter Craigie N3AO 610-993-9623
n3ao@arrl.net

MEMBERSHIP SERVICES

Kay Craigie N3KN 610-993-9623
n3kn@arrl.net

PROGRAMS

(vacant)

PUBLIC RELATIONS

Dennis DeMarco KA3QOT 610-935-7954
dennisdmd@cavtel.net

PUBLIC SERVICE

Bob Palin N3JIZ 610-687-4587

TECHNICAL

Dennis Silage K3DS 610-353-4829
silage@temple.edu

MEMBERS-AT-LARGE

To 9/30/2006: Bob Haase W3SA
610-293-1919, rhaase@bellatlantic.net

To 9/30/2007: Ted Jennings NT3J
610-793-1979, tedddyjsr@aol.com

CALLSIGN TRUSTEES

WB3JOE: Carter Craigie N3AO
610-993-9623, n3ao@arrl.net

W3NWA: Kay Craigie N3KN
610-993-9623, n3kn@arrl.net

HOLIDAY PARTY FUN!

The annual holiday party, held on December 13, was great fun despite extremely cold temperatures outside. A lot of members were able to attend and enjoy the outstanding special refreshments prepared by **Natalie Maslin**. It was particularly nice to see several members who usually aren't at the meetings. The group was a friendly mix of old-timers and newcomers.

Edie KA3NKP brought a selection of her paintings, and **Jeff WA3RIZ** displayed some of his photographs. Both are very talented in their respective artistic endeavors.

We hope the holidays celebrated at your house were happy ones in 2005. Best wishes for an excellent New Year 2006.

HIGHLIGHTS OF THE BOARD MEETING

At their December 8 meeting -- a combined November/December meeting -- the board heard reports on the upcoming holiday party, public service events, and 2006 programs. A procedure was established for deciding about cancellation of meetings in case of hazardous or other unusual circumstances. To limit confusion and ensure club members are notified in a timely manner, the board agreed that the president will make the final decision to cancel a meeting no later than 4:00 PM. When a meeting is canceled, an e-mail will be sent advising the membership. The board also decided an announcement should be transmitted using the linked repeaters system. The Technical Chairman will write a cancellation announcement macro which will be turned on and transmitted every few minutes via the 147.06/145.13 repeaters. The treasurer presented a cumulative financial report for 2005. The treasury balance was \$11,935.12.

UPDATED MEMBERSHIP ROSTER

A new edition of the club membership telephone and e-mail list is being distributed with this newsletter. If your telephone number and/or e-mail address is not shown, it's because you either didn't provide the information or you asked that it not be published.

Since the demise of paper callbooks over a decade ago, more and more Amateurs are not able to make sense of a list in which the callsigns are sorted as they would have been in the callbook. Having now answered enough "You left me out of the roster!" gripes for one lifetime, your membership chairman has thrown in the towel and produced a dual-format roster that both the paper callbook generation and the on-line callbook generation should be able to find themselves in.

In the new club list, pages 1 through 3 are arranged in the modified callbook sort we've been using for years. Calls are sorted by suffix, then by prefix. The call-area digit is considered part of the suffix, which is why this is a modified callbook sort. (*In paper callbooks, callsigns were first sorted by call-area digit, but most of us are 3's so that breakdown is not necessary.*)

Pages 4 through 6 are a full-callsign sort. This should be more comprehensible to the on-line callbook generation.

FLEA MARKET

Wanted & For Sale: Leroy K2BIZ wants to buy a 2m rig -- not a hand-held -- for his new home at the Shannondell retirement community. He has a Butternut antenna for sale. Contact him at 610-382-6880.

For Sale: Linksys 4-port cable/DSL router (model BEFSR481) with installation CD, original cable, power supply, docs. Staples sells them for \$60, I'm asking \$30. Contact Kay N3KN (610-993-9623, n3kn@arrl.net).

For sale / trade / wanted announcements are published free of charge for MARC members. Contact the editor to place an announcement. Transactions are strictly between individuals. The club assumes no responsibility.

INCOME AND EXPENSE REPORT, 2005

2005 Income	\$7,315.38
2005 Expenses	5,380.97
2005 Gain (Loss)	1,934.41
Treasury as of December 31, 2005	\$11,876.66

NICK FUND INCOME AND EXPENSE REPORT

Balance Forward from 2004	\$552.57
2005 Income	127.50
2005 Expenses	245.60
Nick Fund as of December 31, 2005	\$434.47

The Nick Fund consists of donations received for the benefit of **Nick Bortnik UX0ZZ** in Ukraine. The fund pays for purchase of medications unavailable in Ukraine and shipping charges to send the medications to Nick. The money is commingled with club funds in the club's bank account but is accounted for separately in the treasurer's records. Since its establishment, the Nick Fund has received total donations of \$1,501.59 and has spent a total of \$1,067.12. No MARC club funds are used towards this project.

POSTAGE INCREASE AFFECTS HAMS

Direct paper QSLing will be more expensive starting on January 8, owing to the domestic postage increase from 37 cents to 39 cents for 1 ounce of mail. The postcard rate will rise to 24 cents. Finally, the 80 cent rate for overseas airmail stamps will rise to 84 cents.

In a word: OUCH!

I've heard all the stuff about how much more expensive postage is in other countries, but I do not live in other countries, do I? Gloating over the misfortune of others does not put any cents back in my pocket, does it?

All the more reason to use the QSL bureau and Logbook of the World as much as possible for DX QSLing.

Although the ARRL bureaus do not handle domestic QSL cards, I can tell you that the ARRL plans to add the Worked All States award to Logbook of the World in 2006. This will substantially decrease the cost of getting the confirmations required to earn that award for USA and foreign operators alike. Stay tuned!

VANITY CALLSIGN PROCESSING RESUMES

The FCC announced in late December that they would resume processing vanity callsign applications on January 4, 2006. If your application has been caught in the freeze, it should be acted upon before too much longer.



EARLY VIEWS OF THE 147.06 REPEATER

Images contributed by Ray Kiesel K3RIZ

These photos take us back to the early 1970's, before MARC began, when FM repeaters were a new thing in ham radio. Some hams predicted that repeaters were just a passing fad that would soon be forgotten. Others disagreed, saying that in the future every town might have a repeater, and really big cities might have as many as two repeaters. No one foresaw how repeaters would proliferate, become the glue for local radio clubs, and change Amateur Radio forever. No one imagined that FM repeaters would become the entryway for new licensees, instead of the Novice CW-only segments on HF.

From the 1970's through the mid-1980's, the 147.06 repeater was located at Villanova University. The original repeater was put together as a project by two students, **Joe De Courcelle K3OBU** and **Joe Rocci WA3CMQ** (now **W3JDR**). In those days, the FCC required repeaters to have distinctive callsigns beginning with the letters "WR." The 147.060 repeater signed **WR3ABZ**.

Two photos at left show the **WR3ABZ** repeater cabinet at Villanova. In case you've never seen inside a repeater cabinet, in the lower photo the repeater sits on the 3 shelves above and the duplexers, also known as cans or cavities, sit on the bottom shelf.



The third photo at left shows the building in which the repeater was located. It doesn't reproduce well, but you may just be able to see a vertical streak above the building's roof line. That was the repeater antenna. Long-time club members remember climbing about on the roof of that building when there was antenna work to be done.

The final image in this set documents the first QSO carried out on the 147.06 repeater on November 23, 1973, between **Joe K3OBU** and **Ray K3RIZ**.



RADIO K3RIZ... Confirming our KM/CW/2X SSB QSO of 11/23, 1973, at 1910 GMT. On the 3.5 7 14 21 28 00 (44) 432 MHz. Band. Ur sigs were R.S. 89. 7. EPT. Transmitter: MOTOROLA HT220... Input 5 wts. Receiver: HT220... Converter: 1/4 WHP Antenna: 1/4 WHP Remarks: TNX FOR VRY 1ST 2X QSO THROUGH WR3ABZ! ★ K3OBU ★ For QSL Tnx 73 Joe	K3RIZ/ K3OBU QSO VIA WR3ABZ
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ARRL ELECTION RESULTS

The ARRL Atlantic Division, where most MARC members live, has a new Director and Vice Director effective January 1, 2006. Director **Bill Edgar N3LLR** is the former Vice Director and a past Western PA Section Manager. The new Vice Director is **Tom Abernethy W3TOM**, formerly the Section Manager in Maryland/DC Section.

There will be changes in ARRL officers this month, too. Incumbent President **Jim Haynie W5JBP** is not seeking re-election. The ARRL board of directors will elect a new president. Changes in the vice-presidential line-up are expected as well.

JANUARY / FEBRUARY OPERATING FUN

Highlights on the air include the North American QSO Party (CW January 14-15, SSB January 21-22, RTTY February 25-26), ARRL January VHF Sweepstakes (January 21-23), ARRL International DX Contest (CW February 18-19, SSB in March), and a bunch of state QSO parties. Check out details of these and other competitive operating events at www.hornucopia.com/contestcal/index.html.

Special event stations are fun to work if you can be patient with operators who may be inexperienced. Some of the special event stations in January and February this year commemorate Ground Hog Day, the 47th anniversary of the death of **Buddy Holly**, and **Thomas Edison's** birthday. See the calendar in your favorite ham radio magazine, or see the ARRL's on-line calendar at www.arrl.org/contests/spev.html.

THIRD CALL AREA INCOMING QSL BUREAU CHANGES

The ARRL's third call area incoming QSL bureau is under new management and has a new mailing address. The address is National Capitol DX Association, PO Box 1149, Clinton, MD 20735-5149. For details on the bureau operation, see www.qsl.net/ncdxa/ncdxa_third_call_area_bureau.htm.

If you had envelopes on file with the previous bureau, those have been passed to the new group along with any QSL cards for you that haven't already been sent to you. The new bureau is even going to add postage to your existing envelopes to deal with the 2006 postage increase. Do be sure to put the right postage on all future envelopes you send to the bureau!

UNITED NATIONS ANNIVERSARY AWARD

According to *The Daily DX* electronic newsletter, a new award is available from the United Nations Staff Recreation Council Amateur Radio Club. The club is celebrating the 60th anniversary of the United Nations with the 4U60UN special call sign now through the end of 2006.

Amateurs who contact 4U60UN or 4U1UN plus one other United Nations Amateur Radio station in the period of October 24, 2005 through October 23, 2006 are eligible to make an application for the new "UN at 60" award. QSL and all other communications concerning this event or previous contacts with 4U1UN via HB9BOU.

The Daily DX is an e-mail newsletter issued 5 days a week. It contains up-to-the minute information about present and future DX activity, propagation, and QSL route information. Plus, subscribers can search on-line archives for information from past issues.

Two-week free trial subscriptions are available. Find out more at the publication's web page at www.dailydx.com.

IMPORTING PAPER LOGS INTO LOGGING PROGRAMS

BasicLog 1.0 is an Excel spreadsheet created by **Clark Stewart W8TN** that speeds up the process of converting paper log data to ADIF file format for uploading to Logbook of the World or importing into logging programs. The program is free for downloading along with a printable manual at <http://www.w8tn.com/software.htm>. MARC offers no warranty; download and use at your own risk. [info tnx ARRL Contest Rate Sheet]

ICOM SITE HAS HAM RADIO VIDEO CLIPS

ICOM has a bunch of new ham radio videos on their Web site at <http://icomamerica.com/amateur/video>. There are three on the 2005 Dayton Hamvention, a D-STAR presentation, two on ham radio in India featuring **Bharathi Prasad VU2RBI** of tsunami emergency comm fame, and a feature on ham radio from Channel 12 TV in Chattanooga, TN. [info tnx ARRL Contest Rate Sheet]

FOUNDATION FOR AMATEUR RADIO SCHOLARSHIPS



The Foundation for Amateur Radio (FAR) will administer 54 scholarships for the academic year 2006-2007. Licensed Radio Amateurs may compete for these awards if they plan to pursue a full-time course of studies beyond high school and are enrolled in or have been accepted for enrollment at an accredited university, college, or post-secondary technical school. Awards range from \$500 to \$2,500, with preference given in some cases to residents of specified geographical areas or the pursuit of certain study programs.

Additional information and an application form may be requested by letter or QSL card, postmarked prior to April 30, 2006, from:

FAR Scholarships
PO Box 831
Riverdale, MD 20738

FAR, a non-profit organization with headquarters in Washington, DC, is composed of more than 75 local Amateur Radio clubs in the Washington / Baltimore / northern Virginia region. FAR fully funds three scholarships. Ten awards are funded with income from grants. The remaining scholarships are administered by the

ARRL FOUNDATION SCHOLARSHIPS



Applications for ARRL Foundation Scholarships are due February 1, 2006. All ARRL Foundation-administered scholarships are intended exclusively for educational use, to provide assistance with costs of tuition, room, board, books and/or other fees essential to the advanced education of the recipient. Information about the ARRL Foundation Scholarship program is posted at www.arrl.org/arrlf/scholgen.html.

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CALLSIGN	NAME	PHONE	E_MAIL
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This information is for the personal use and convenience of club members. It is not to be used for business, commercial, or charity solicitation purposes by members or non-members. Your cooperation in respecting this club policy is appreciated.

Page 1-3 Roster sorted by callsign suffix (the part of the callsign following the digit)

Page 4-6 Roster sorted on the prefix. 2-character prefixes precede 3-character prefixes

	Erin Thompson	610-688-0874	
WA3 ADI	Vince Buono	610-449-4386	wa3adi@comcast.net
N3 AGS	Rick Miskinis	610-825-9590	rmiskinis@asplundh.com
W3 AHR	Allan Rabenau	610-269-7153	ahr1@comcast.net
N3 AO	Carter Craigie	610-993-9623	n3ao@arrl.net
WB3 AYT	Don Schuenemann		wb3ayt@arrl.net
K4 BF	Bart Feroe	610-367-4288	k4bf@arrl.net
W3 BG	Jim Samuels	610-695-9013	
K2 BIZ	Lee Brown	610-382-6880	
W3 BNR	Ed Naratil	610-933-4020	w3bnr@arrl.net
WA3 BRZ	John Moore	610-265-4453	wa3brz@yahoo.com
W3 CAU	Charlie Higgins	610-692-3835	w3cau@arrl.net
KA3 CBS	Tony Lamorgese	610-544-1016	
KF3 CD	Mike Pilotti	610-935-4429	kf3cd@arrl.net
N3 CJF	Rob Roberts	610-993-1255	robrob001@msn.com
KB3 CO	Charles Martin	215-628-0519	kb3co@arrl.net
KB3 CRY	David DelPizzo	610-630-0129	del131@msn.com
K3 DAT	David Turner		k3dat@arrl.net
AA3 DB	Alan Ponting	610-644-6362	alanponting@comcast.net
W3 DI	Dan Amoroso	610-566-2187	nnn0abp@navymars.org
AB3 DJ	Robert Stock	610-352-9919	rstock@voicenet.com
K3 DK	Dieter Hauer	610-489-1920	dhauer@gis.net
K3 DS	Dennis Silage	610-353-4829	silage@temple.edu
KC3 DS	Charlie Wood	610-649-3590	chaswood@comcast.net
K3 DSM	Gene Mitchell	610-827-7438	genem@k3dsm.net
N3 DTY	Paul Riale	610-645-8849	
WQ3 E	Josy Malebranche	610-277-7887	jmalebranche@att.net
N3 EA	Al Maslin	561-968-9447	n3ea@arrl.net
WA2 EAJ	Stephen Ikler	610-889-0548	steve@ikler.com
KA3 EIW	Ann Lytle	610-696-2218	
KB3 EJS	Kurt Richter		
N3 ENU	Doug Wilkens	610-692-6819	dwilkens@voicenet.com
N3 ENY	David Simon	267-980-6460	n3eny@arrl.net
N3 ESS	Raymond Paisley	610-268-2405	n3ess@arrl.net
KN3 EUF	Bill Houser	215-342-5528	
WA3 EYD	Steve Fortin	610-636-0717	sfortin@jetdirect.net
K3 FMQ	Bill Ballantine	215-766-0764	k3fmq@fast.net
KB3 FSQ	Robert D. Weiss	215-477-6475	kb3fsq@netcarrier.com
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N3 MDE	Brian Mulligan	610-429-8155	brian.mulligan@comcast.net
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N3 MUF	Michael DellaVecchia		
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