



The VHF Transmitter

Keystone VHF Club, Inc. W3HZU Founded 1955 – York, PA



VOL 55 No 2

CIRCULATION 130

February, 2010

Keystone Digital Net

By Dick Goodman, WA3USG

The first Keystone VHF Club Digital Net was called last Tuesday evening at 2000 hours local time on the 146.97 repeater.

This was our first formal digital net. We had the following folks check in:

Dick, WA3USG (NCS)	Lorna – KB3SST
Jack - N3BQB	John – KB3TDC
Rich – KR3EE	Jon, KB3IGH
Ralph – K3HQI	Bob – N3NBT
Nate – N6PHW	Ted – K3KSA

All digital traffic was passed on the 146.97 repeater using FLDIGI as the multimode software and BPSK-250 as the default transmission mode.

For the first several nets, we are going to concentrate on getting everyone's equipment functional (and to ensure they reliably can go into the transmit & receive modes). The most common problems that I am seeing are:

1. Configuring reliable PTT (RS-232)
2. Ensuring your tones are on the correct frequency (1000 Hz).
3. Not monitoring your own signal

During this first net, someone transmitted a tone for about 5 minutes with no data (long enough to time out the repeater). I don't believe that they knew they were doing this. Everyone needs to monitor their own signal with a second receiver. It can be an HT tuned to 146.37 MHz or even a scanner. There are also cases where people are thinking that they are sending data when their transmitter is not even being keyed. Monitoring your own signal will alert you to both of the above scenarios ... this is important!

As I stated in a previous E-mail, we are only going to provide a limited amount of assistance on the net to resolve hardware problems. For severe and continuing problems please attend tech sessions at the club where the problems may be more efficiently resolved. We will also offer practice sessions on the repeater at other times on a not to interfere basis with normal repeater voice traffic. Additionally, each operator should practice on their own. A simplex frequency may be used and schedules made between folks interested in digital communications. Practice setting up & tearing down your radio & computer so that it becomes second nature.

After we become proficient with our hardware, we will begin learning proper Digital Net procedures. Part of this is to learn to send & receive messages in the format of the "EOC Message Form". This form is available for download from the Keystone VHF Clubs

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Marie Hagens, N3BSM A Silent Key



Keystone Club Member Marie Hagens, N3BSM became a Silent Key on January 29th. Marie is the Mother of Life Member, Greg Hagens, KE3CW and club member Fred Hagens, N3LHL.

Marie received her license and joined the club in May of 1992. She helped Greg run his Electrical Contracting business and was very active along with Dottie Barefoot, N3LTZ in organizing many of the clubs events.

She will be greatly missed by her family and all those who knew her.

Nadine Hagens Diehl wrote

Jan 29, at 8:30 PM the angels announced "Its a Girl", my mom was renewed and her spirit reached heaven. How awesome is that? I have another angel to watch over my family.

Services will be held at Heffner Funeral Home on Kenneth Road on Friday 2/5 7 to 9 and Saturday 2/6, 9 to 10 and Funeral Services at 10:00 AM.

Thank you for all the prayers and support. Much love to all.

YORK Marie C. (Lindrose) Hagens died on Friday, January 29, 2010, at Colonial Manor Nursing Home. She was the loving wife of the late Fred G. Hagens, Sr. A Celebration of Life Service will be held at 10 a.m. on Saturday at Heffner Funeral Chapel & Crematory, Inc., 1551 Kenneth Road., York, with the Rev. Edward J. Rowand officiating. Visitations will be from 7 to 9 p.m. Friday and from 9 to 10 a.m. Saturday at

the funeral home.

Marie was born on July 17, 1932, in Nanty Glo, a daughter of the late Walter and Bertha (Ross) Lindrose. Marie worked as a secretary for the York County Treasurer's Office, as well as for the B.M. Root Co. and Hagens Electric.

Marie was a member of the Rohler's Assembly of God in Dover and the York Alliance Church. She was involved with the Christian Women's Club and the Alliance Women.

Marie was also a member of the Keystone VHF Amateur Radio Club, call sign N3BSM, and went by the nickname "Big Sassy Mama". She was an avid outdoorswoman and enjoyed hunting, fishing, camping, and spending time with her family.

Marie is survived by two sons, Fred G. Hagens, Jr. of Wrightsville and Greg A. Hagens of Dover; two daughters, Sandra M. Landis and her husband, Tom of Dover, and Nadine F. Diehl and her husband, Duane of York; many grandchildren and great-grandchildren; three brothers, Walter Lindrose of Nanty Glo, Ronald Lindrose of Johnstown, and Larry Lindrose of Nanty Glo; one sister, Donna Goldsmith of Brandywine, Md.; and many nieces and nephews.

Preceding her in death was a sister, Arlene Monborne. In lieu of flowers, memorial contributions may be made to the Lakeside Community Church of the Nazarene, 1006 Rowena Drive, Ebensburg, PA 15931; or Rohler's Assembly of God, 761 Rohler's Church Road, Dover, PA 17315. Send Condolences at BestLifeTributes.com.



From Tim Barefoot, AA3BJ & family:

I wanted to say "Thank You" to all who sent cards, flowers, and paid respect to my father W3UQJ. I was overwhelmed reading the newsletter last month. Thank you for all your kind words and keeping our family in your prayers. We miss him but he is in our hearts forever.

NEXT MEETING
Thursday, February 4th at the York
County EOC on Davies Road.

Happenings in the Carlisle/Harrisburg Area

We will be holding the first meeting in 2010 of the Cumberland County ARES. This meeting will take place February 24, 2010 at the Carlisle Regional Medical Center in the education room. **THIS IS A CHANGE FROM THE ORIGINAL MEETING LOCATION DUE TO SCHEDULING ISSUES.** (As you face the hospital the entrance is on the right side - opposite end from the Emergency Department). I am sending this to the ARES members as currently registered and to clubs /organizations who may have members from Cumberland County.

Clubs/Organization Officers: Thank you for taking the time to read this. If you could please distribute this email and make announcements of the meeting in your club newsletter, on club nets, or web page I would appreciate it. Thank you.

We are trying to get things moving on a few levels.

- 1) The Big Springs School District has 2 towers they would like to donate for use with Ham Radio EMCOM. The county has suggested 2 locations which they may help. We need to discuss this and have an action established. The towers must be moved in the next couple months.
- 2) Cumberland County SAR has an interest in learning more about ham radio and possibly working with us.
- 3) Ensuring both CRMC and Holy Spirit have dedicated points of contact and have all the radios programmed properly.
- 4) TMI is coming up next year and we need to do some preparation for that drill.
- 5) SKYWARN Nets in the area are becoming active.
- 5) Setting future meeting dates and other items the group wishes to pursue.

If you are interested in attending and need more information please do contact me. My information is below. If you cannot make it but want to support the organization, please contact me and let me know. I will make sure we get you in the loop. Feel free to forward this message to other hams within Cumberland County who you think may be interested in joining.

Thank you and 73!

Daniel Sullivan, KO1D
DEC EPA District 5
Acting ARES EC Cumberland County
cell: 717-440-0641
email: djs13pa@me.com

website under the YARS option. Click on "YARS", then on "Volunteer Forms". The form that we are interested in is at the bottom of the page and is entitled "YARS EOC Message Form". This is the format that we want to use to send & receive digital text data. I have written a program entitled "MSG.EXE" that will create a message in the format described above. I believe that many folks reading this have that program. If you need it, I can get it to you via e-mail. It is a very simple program and it makes a TXT file of your message data that may be sent with FLDIGI or any other digital modes software.

One word about this program. It is quite simple. It is a DOS application and you will find that your mouse doesn't work with it. It will however make TEXT files that can be sent with any digital software package. There are other programs out there but they will require extra steps in transmission & reception. I am trying to keep this as simple as possible. If anyone has something better, please speak up.



TRUSTEES REPORT

For January 2010

By

Jack Dellinger N3BQB

The big storm we had the last week of January brought one of the trees by the pavilion down of the roof of the pavilion. The tree was actually laying on one of the guy wires to the HF/6m antenna tower. A quickly organized work party got the tree off the guy wire. There is also a lot of tree limbs laying around the yard. A work party will be held on Feb. 13 to cut up the log to remove it from the roof of the pavilion and clean up the yard. The club site also lost commercial power and was on the generator for at least 10 hours. The generator worked great and when commercial power came back on, the generator shutoff as it supposed to do. Earlier in the month the door on the Jiffy John was nearly ripped off by winds. The door was repaired by Knappers, who clean the Jiffy John. By-the-way, I didn't know this, but the Keystone club owns the Jiffy John, we do not rent it as I thought. We ask that when you use the Jiffy John, please latch the door when you come out.

Scheduled Club Events for 2010

Program Presentations at Club meetings:

To add more interest to monthly general meetings, we're trying to schedule some presentations of about 10-30 minutes. We're currently planning the following:

Feb 4 - Navigating the Club Website

If you have anything you would like to present to club members, with about 10 to 30 minutes of content, please tell Dick, WA3USG, and he will get you scheduled. You can contact Dick at (717) 697-2353 or by E-mail at wa3usg@verizon.net

American Diabetes Association "Tour de Cure" - 22 & 23 May, 2010

The Glen Rock Parade

When: Saturday June 12, 2010

Where: Glen Rock

Time: 9 am till 3:30 pm

Place to meet kb3igh: at the Church at the corner of Water Street and Hanover street Glen Rock

The parade will start at the top of Hanover Street down to Water Street to Main Street to Manchester Street to the leigon for walkers and back to park for vechiles.

I will need 40 to 50 Hams to cover intersections and and to be with the Parade Chairman and myself at net control.

Bring Hts with at least 6 hours battery life. Will be looking for anything that might go wrong at your location. Bring Lawn chairs and come out for a day of Fun!

Jon KB3IGH

MS-150 Bike Tour in Lancaster - 24 & 25 July 2010

Keystone VHF Club Summer Cornroast - 14 August 2010

KTA Superhike - 11 September, 2010

Susquehanna Appalachian Trail Club "Hike for Habitat" - 18 Sept 2010

This years hike will take place at Col Denning State Park near Newville. See <http://mysite.verizon.net/vzezchws/satc2010hike> for details. Note - This hike is still in the development stage.

KVHFC TRUSTEE/TECH COMMITTEE TO DO LIST

1. Clean & condition guy wire anchors **(Done!)**
2. Sweep the chimney
3. Schedule the antenna building (3-band dipole) one session was held on Aug 15th
4. Replace critter cam **(Done!)**
5. Repair the outdoor Security camera

EMCOMM & Public Service

Subj: Date for SKYWARN training

From: David Ondrejik NWS State College, PA
Subject: SKYWARN training

Date: May 1, 2010

Where: York County DES facility 120 Davies Rd. York.

Time: 10 AM until approx. 12 noon.

Will be giving the advanced version of SKYWARN.

Contact Tom Graybill York DES/OES TAGraybill@yedes.org if you intend on attending.

This is so they have a general count of how many will be attending.

Subj: Even More SKYWARN training !!

It is with great pleasure that I announce a Skylwarn Training session to be conducted by Dave Ondrejik from the National Weather Service on Monday April 19th at 6:30 PM at the Fire Station in Newville, PA the address is: 15 East Big Spring Avenue. The session will be conducted in the Social Hall area.

For those of you interested in the Storm Ready program and certification; this is a requirement that you take this **or also that you refresh** this training. As always I'm sure Dave O will make the class interesting, informative and humorous. For all of the LEMC's included in this e-mail you will notice this becomes our April meeting topic. Please be prompt so that Dave can begin on time. DPS looks forward to seeing all of the different disciplines there for the session. I hope we have a great turn out on April 19th!

Thank you! Eric **(If interested contact Dan Sullivan, KO1D)**

The VHF Transmitter

published monthly by the

Keystone VHF Club, INC

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Distribution only via the Internet by WA3USG

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(same as above)

The EOC Message Form used by YARS for a variety of drills and events is now up on the Keystone VHF Clubs Website under "YARS". After clicking on the "YARS" option on the main menu, scroll down to "Volunteer Forms" and click on "YARS EOC Message Form". The form may be printed or saved as a PDF file. This is what will be used for the TMI & Peach Bottom drills.

CQ Baseball fans ! CQ Baseball fans! 2nd Annual Ham Radio Baseball Nite

The Southern Pennsylvania Communications Group (SPCG) and The York Revolution

Invite all York County Ham Radio Operators and their families to another evening of Atlantic League Baseball at York's Sovereign Bank Stadium.

Saturday, July 24th, 7:00 PM

Take me out to the ball game, take me out with the crowd ...

Join your friends and neighbors for an evening of baseball and family fun. Over 30 hams and family joined us last year. Let's do it again! Sit back and enjoy the game from the comfort of padded Dugout Box seats located directly behind Home Plate. You can look the pitcher in the eye when he delivers and listen for the crack of the bat or the STRIKE! call from the umpire.

Buy me some peanuts and cracker jack, I don't care if I never get back

Minor League baseball is affordable. You don't need a 2nd mortgage for an evening of baseball with your whole family. Again, the York Revolution Management is offering York County Hams the "good" seats that normally cost \$12 for the special price of \$10 each. The gates open at 6:00 PM, first pitch at 7:00 PM.

Let me root, root, root for the home team, If they don't win it's a shame

Root for your York Revolution as they host the Lancaster Barnstormers. Lancaster is a former Atlantic League Champion and cross-river rival for the Revs. In addition to division and league championships, these two teams compete for the Community Cup awarded to the annual winner of the York-Lancaster series of games. The Barnstormers won the Cup in 2007. The Revs captured the cup on the final game of the 2008 season. In 2009 the Barnstormers re-claimed the cup. The Revs will look to bring the Cup back to York in 2010.

For it's one, two, three strikes, you're out, At the old ball game ...

And, after the final out, sit back and enjoy a fireworks spectacular that will light up the sky. Have a fun-filled evening. Take home some baseball memories with your fellow hams from around the county.

We need a commitment to the York Revolution Management for the number of seats we will need no later than Saturday, June 12th. To reserve seats e-mail Gene Owens W6ORZ (w6orz@arrl.net) by June 12th with your name, call sign, radio club, and number of tickets needed.

Have you paid your Dues ?

Your club membership dues for the year 2010 are now payable

(Just in case that you forgot !)

Full Membership only \$20.00
Family Members still \$ 5.00
Full members under 18 \$10.00

Make checks payable to: Keystone VHF Club

See your treasurer at the next club meeting
or for same day service send check directly to:

Linda Warner
125 Southview Dr.
York, PA. 17402



Radio Systems Failure By Ralph Brandt, K3HQI

Newark Airport Radio System Failed During Emergency Landing

A crippled airliner landed safely at Newark Airport thanks to a veteran pilot's skill — but the radio system used by the ground rescue team crashed just when it was needed most, The New York Post has learned.

United Airlines Flight 634, its right landing gear malfunctioning, was approaching Newark on Sunday morning when rescue crews were alerted to race to the runway and prepare for a crash landing.

But by the time the teams were in place, their radios went dead, apparently because of utility work nearby.

"There couldn't have been a worse time for it to go down," a source said of the foul-up involving the Port Authority's Air Fire Rescue frequency. At 8:50 a.m., the emergency system alerted rescue teams to the possibly crippled airliner approaching Newark. But soon after, a sergeant on the ground realized he couldn't communicate with his desk or other squads. Using cellphones, cops alerted the crews to switch to backup frequencies. But by the time that happened, sources said, the Airbus had already safely skidded to its landing, with the 48 passengers and crew members on board scampering from the craft on emergency slides.

Complex systems fail, more complex systems fail more often. The simplest radio link is still the simplex mode and generally it is the most reliable – assuming that the two radios have the ability to reach to each other. Insert a repeater and no matter how reliable you have inserted more risk. Insert two repeaters in an automatic redundancy, it helps but you have really inserted another risk, the redundancy circuitry can fail and put both repeaters off line thinking one of them is on.

I work with computers and communications lines. I think at least one quarter of the failures in our high reliability circuits have been failure in the circuitry or software that controls redundancy. We have turned off automatic redundancy and allowed the manual switch to be done on some circuits! There is a backup but it is manually activated.

The repeater system on trunking is not only repeating, it has computers that must validate a radio/user (a logon if you like), in trunking it has multiple sites that communicate and they simultaneously broadcast the same info on separate frequencies. It just plain gets more and more complex.

That said, why in the name ... was there only one server or were there two of them running on the same power strip? No kidding, I have actually seen that done. Try this one. Two racks of equipment, one battery in each. Every piece of equipment has two power supplies. All of the power supplies in rack1 are connected to battery1, all of the power supplies in rack 2 are connected to battery in rack2. The battery switch in rack 2 fails. All of the equipment in rack 2 goes down. We loose all phone and data service to.

I can't give the site but it is a real event. If the equipment had been cross connected – power supplies in each rack connected to the other battery the battery in rack1 would have held the site up for 4 hours, not the 8 designed. But someone should have been able to get there in less than 2 hours to reset and there were alarms to warn of it.

Let me give you a practical for us. You have a primary radio and a spare. If they use different batteries – you can't swap them – if one radio fails the other's batteries are just dead weight. If you have an antenna for each of two radios – make sure they will connect to each other. A simple adapter in your kit may allow that.

BTW, I am trying to learn from the rest of you. Last night I went to Gander Mountain to buy a compass, I had one, it is missing. It will show up but right now I wanted to do some map exercises and need it now.

While there I picked up a couple other things that looked smart based on this weekend.

Whistle.

Metal mirror

Waterproof Match box and matches (I have matches in my camping box but never carried them.)

Want to know why? Because after watching the videos I decided that I wanted to get some insurance against Mike and Bill using me as a SAR case in some future training of a guy who went out stupid... <grin> Just kidding but I don't want it to happen.

Actually this article is a response to an E-mail sent by Ron Small, WB2OOB and highlights the risks when radio systems get progressively more complex. It also illustrates the fallacy that built in redundancy always yields payback in the form of higher reliability.

At the very end of his article, Ralph asked me if I carried the items that he purchased from good old Gander Mountain when I went hiking. The answer is a resounding "Yes".

I do carry a whistle, a signal mirror, and matches in a waterproof container. I also carry a few of those little waxy wooden firestarter thingies in case I need to start a fire. Actually, I do best starting a fire if I have an accelerant to work with ... and I won't say which kind! It really starts fires fast!! The wood thingies work good too.

De Dick, WA3USG



From the Editor

By Dick Goodman, WA3USG

It would really be great if we had a bunch of people fighting and clawing their way up to the front of the meeting room to be the first to sign up for the committees that we are going to propose at the Club meeting on Thursday! Matter of fact, I would like to ask everyone to refrain from actually running ... and to proceed in an orderly manner when the lists are passed out.

Seriously, I know that most of you are busy and are doing all that you can to support the club right now. We also already have quite a few folks who are on committees. What we are trying to do is to get the committees more active.

Years ago, most events that the club was involved in was organized by committees. Right now we have good participation in the creation and organization of our events but it seems to be coming from one fairly large group of people. Basically, the Executive Board is planning most of the things that the club does.

We need some new blood gang! We need some folks to present some new ideas for social events, technical sessions, and just plain different things to do.

Back before we had our tenants on the tower, we had to run several fund raisers to augment the dues in order to have sufficient operating monies. We don't have to do that anymore. Between the dues and the rent paid by our tenants we enjoy a degree of financial freedom. While I don't want to go back to having all the fund raisers, we've lost something along the way. A big part of the club was having those organizational committee meetings to keep things going.

It resulted in folks getting together somewhat more then we do now. When we used to have a Hamfest Committee, it involved the coordination of a lot of different things. We had people working on Ticket Sales, Table Sales, Parking, Tailgating, Food Sales, security, and a lot of other things. It was a lot of hard work, and we were glad when it was over, but it got people together.

We used to have regional ATV seminars, one time we had Paul Shuch, the Executive Director of the SETI League give us a talk on the Search for Extraterrestrial Intelligence in the Cosmos at banquet in the Valencia ballroom in York.

We need to do more things like this. Social events can be paired with interesting technical topics presented in a way that everyone can enjoy.

Join a committee & help make it happen!



**Keystone VHF Club
General Meeting Minutes of
January 7th, 2010
By Lorna Miller, KB3SST**

The General Club Meeting held at York EOC was called to order by President Sandy, N3ECF, at 19:00. There were 24 members present and 1 guest, Larry D. Frey, KB3TSZ, who has submitted a membership application.

An announcement was made the Bill Barefoot, W3UQJ, is not expected to live long. Please sign the sympathy cards being passed that will be sent to Tim, AA3BJ, and Dottie, N3LTZ.

TECHNICAL HAPPENINGS: Brad, N3JDQ, reported that on January 16th & 17th, there will be a show at the fairgrounds called Cabin Fever Expo. He said it would be very interesting for people who like to tinker.

PROGRAM: Dick, WA3USG, gave a video presentation on Software Defined Radio.

PRESIDENT REPORT: Sandy, N3ECF, reminded everyone that the Holiday Party would be January 23rd. The deadline for reservations is January 9th. See Sandy after the meeting to reserve or pay for the party.

SECRETARY REPORT: Lorna, KB3SST. Mike, N3VQH, moved to accept the minutes as published, 2nd by Steve, WB3EFA. Motion carried.

TREASURER REPORT: Linda, KB3EBV, reported for December: Income: \$683.11; Expenses: \$290.16; NET Total \$392.95. Balances: Bill Hurst Emergency Fund CD \$2,468.88; 1 CD \$7,425.71; Checking Acct \$2884.29; Trustee Acct \$321.98; Total \$13,100.86. Steve, WB3EFA moved to accept the report; 2nd by John, KB3TDC. Motion carried.

COMMITTEE REPORTS:

NEWSLETTER/WEBSITE: Dick, WA3USG, reported that the Newsletter would be out in a few days.

TRUSTEE REPORT –Jack, N3BQB. The club primary mower has had winter maintenance completed and has been returned to the club site. The blade was replaced, two drive wheels, oil, air cleaner and spark plug. Total cost \$154.20. There had been \$200.00 allocated for the project.

TECH REPORT - Tim, KB3OFE. Approval request for \$5.00 ea. for new 6meter rack wheels. Mike, N3VQH second motion. Motion carried.

Dick, WA3USG requested \$500.00 for radio link to build remote for receive site. Tim, KB3OFE moved to approve the request. Brad Kline, N3JDQ, 2nd the motion. Motion approved.

ECHOLINK REPORT – Jim, K3JIM, is up.

CONTEST REPORT - Mike, N3VQH, reported during the RTTY Roundup – digital modes contest on Saturday Jan. 2, there were 38 contacts made.

Mike, N3VQH, need operators for the January VHF Sweepstakes contest on January 23rd and 24th.

EMCOMM/PUBLIC SERVICE NEWS – Jack, N3BQB. H1N1 clinic to be held at York Fairgrounds January 8th and 9th.

Some schools will be starting second round of H1N1 shots next week for children under 9 years of age, as they require 2 doses.

VE/ED REPORT – Chip, W3FJD, The Yorkfest will be held in April. Exact date and place to be announced later.

MEMBERSHIP APPLICATIONS: Lorna, KB3SST, did the second reading for membership applications from Thierry Mathieu, KB3TPX, and Palmer (Kip) Glunt, WB3AFL. The vote was unanimous to welcome them into the club.

Lorna, KB3SST, did the first reading for the membership application for Larry D. Frey, KB3TSZ.

OLD BUSINESS:

None.

NEW BUSINESS:

There was a discussion on the donated high band repeater ending with the sentiment that there need to be some smaller meetings discussing this subject.

Sandy, N3ECF, advised there will be committee lists forthcoming and is encouraging members to sign up and get involved.

GOOD OF THE CLUB:

50-50 \$14 was won by Kathy, KA3THC.

Adjourned at 20:27.

It's February and love is on the airwaves! Gearing up for Valentine's Day: all our favorite old time radio couples are 10% off through Feb 14th including:

- Sleuths & Sweethearts
- Comedy Couples

Click here for a complete list of shows now on sale!

10% OFF OUR FAVORITE COUPLES

OTRCat.com
Old Time Radio Show Catalog

Other great local area nets:

The Quarter Century Wireless Association (QCWA) net meets on Wednesday at 8 PM on the York 146.97 repeater.

The Keystone VHF Club ELMER Net on Tuesday starting at 8 PM on the York 146.97 Repeater.

The Keystone 75 meter net on Tuesday starting at 9 PM on a frequency to 3820 to 3840 KHz (+ or – the QRM).

The Digital Roundup Net starting at 8 PM on the 146.610 (PL:131.8 Hz) repeater in the Lancaster/Lebanon area. (see page 3 for details).

A local FM Simplex Net runs Thursday evenings starting at 8:30 PM on a frequency of 146.55 MHz.

Capitol Area Traffic Net starts Monday evening at 8 PM on the South Mountain Radio Amateurs (SMRA) repeater on 145.43 (no tone). All properly licensed radio amateurs are invited to check in, with or without traffic or experience.

South Mountain Radio Amateurs (SMRA) Net on Monday eveing at 9 PM on the 145.33 (no tone) repeater located in Mt. Holly Springs. After the normal FM net, a group moves off to 144.210 MHz and operates SSB.

KEYSTONE VHF CLUB OF YORK, PA



W3HZU



Membership Application

Name: _____ Phone: _____ - _____

Address: _____ Callsign: _____ Expires: _____

City: _____ State: _____ Zip: _____ Lic Class: _____

Occupation: _____ E-Mail: _____

Membership Desired

- Full** → Full Club Privileges
\$20.00 annually & one time \$5.00 Application fee
- Family** → Sponsoring members call: _____
Privileges same as Full membership
\$5.00 annually & a one time \$5.00 Application fee
- Associate** → Repeater Support
\$20.00 annually & a one time \$5.00 Application fee

Are you a member of:

- ARRL** Y-N
- ARES** Y-N
- RACES** Y-N
- QCWA** Y-N

Special Areas of Interest (circle all that apply)

AM Antenna building ATV Contesting CW Digital (Packet, RTTY, PSK-31, etc)
DX FM HF QRP Satellites SSB SSTV SWL Tower climbing LF DSP
UHF/Microwaves VHF Astronomy Photography Other: _____

Application & Dues Mailing Address:

Make checks payable to: *Keystone VHF Club Inc.* Mail to: *PO Box 20143*

York, Pa. 17402-0140

FOR CLUB USE ONLY

First Reading Date: _____ Second Reading Date: _____
 Date voted IN-OUT: _____ Date Dues Collected: _____
 Applicant Sponsored by: _____