



WASHRAG™

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Volume 3 Issue 10

October 2001

N3SH
WA3SH

Wireless Association of South Hills

PA QSO Party: Last Minute Details!

You should be reading this about a week before our next meeting, and about 10 – 12 days before the 2001 running of the Pennsylvania QSO Party, October 13th & 14th. Some things have changed in the last month, so here's the up to date news as of the printing deadline:

First, the **WA3SH/QRP** operation in Washington has been scrubbed, as most of the ops decided to join the main N3SH operation. That happened in part because several of "the regulars" for N3SH are unable to make it this year due to work or wedding commitments. So if someone would like to host WA3SH from their home QTH for those who can't travel, please contact PA QSO chair Larry K3VX.

N3SH will be QRV as a multi-operator station from N3SBF & KB3GMN's cabin up in Clarion County, adjacent to Forest, Elk, and Jefferson Counties. Several ops have committed for Saturday, Sunday or both. If you would like to join the N3SH effort and haven't notified Larry K3VX, now is the time. He also needs to know what equipment besides the Club rig will be making the trip, and the usual assorted details. We'll go over all this at the meeting. And don't forget the traditional Breakfast gathering for the caravan making the trip at **Bob Evan's** in Cranberry on Saturday morning!

N3KFD will be QRV from South Park. Kevin is willing to host anyone who'd like to help operate his station — contact him for more information. **W4ZE** will be QRV from Washington County. So will **K3OL**; Bryan will be trying QRP at first but may switch to QRO later.

N3ZNI is still planning to run mobile this year, but needs someone to help drive and/or log. **W3RJM** is planning to operate mobile on Sunday afternoon on his return trip from a tournament. **WN3VAW** is still mulling over what to do on Sunday. He may be QRV from home Saturday night, but with **WE3U** operating from home this year, the opportunity for QRM is obvious! And we expect that **KQ3DX** will be aeronautical mobile Sunday morning, but don't expect to hear him! (Wonder if he's going to sneak a little /P4 during the honeymoon?)

That's what we know — we expect other club members to pop up on the air to, so this is far from a complete list! PaQP is a lot of fun and a great time on the air, so if you can get on the air, even for only a short period of time, don't miss out!

73, Ron Notarius WN3VAW, President
Wireless Association of South Hills, Inc. N3SH/WA3SH

Salvation Army Still Needs Hams in New York

NEWINGTON, CT, October 2nd, 2001— Although the Salvation Army has cut one shift of radio operators to support the organization's World Trade Center relief operation in New York City, it still needs fresh Amateur Radio volunteers. "We are still short of people," said Jeff Schneller, N2HPO, who's coordinating the Salvation Army Team Emergency Response Network, or SATERN, operation.

Schneller said the midnight to 8 AM shift has been suspended, but SATERN still needs six Amateur Radio operators per shift--a total of 12 per day--for the indefinite future. He said he appreciates the volunteers who have turned out so far to assist the Salvation Army effort, but those there the longest now "are getting weary," he said.

SATERN needs operators at the Kennedy Airport warehouse with their own base station set up from about 8 AM until about 9 PM — possibly broken into shifts. In addition, SATERN needs operators to ride with trucks to provide communication. He said the Salvation Army now has three trucks running from morning till night. He said this effort also can be broken into shifts, but determining exact shift times is difficult

(Salvation Army Continued on page 7)

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Next Meeting: October 11th, 2001

The next monthly meeting of the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** will be Thursday, October 11th, at the **John McMillan Presbyterian Church**, 875 Clifton Road, Bethel Park, starting at 7:00 PM.

N3SH and other club Pa QSO Party operations, and nominations for officers will be the topics of the evening.

Talk-in on the 146.955(-) N3RNX/R and 443.650(+) N3FFP/R Repeaters (131.8 PL). All members, guests and interested parties invited!

October 2001

Sun	Mon	Tue	Wed	Thu	Fri	Sat
Busy month, hmmm?	1 Greater Pgh VHFS Meeting Breezeshooter's Net 2 Rivers ARC Net Triple "A" ARA Net Beaver Co Public Service	2 Butler Co ARA Meeting SHBP&M Meeting Skyview RS Meeting North Hills ARC Net SATERN Net	3 Uniontown ARC Meeting Steel City ARC Social Nite Allegheny Co SKYWarn Net Allegheny Co ARES Net Westmoreland Co ARES	4 Good Buddy Day WACOM Meeting RA Erie Meeting	5 Elco ARS Meeting	6 CA QSO Party W3KWH Open House & Special Event Station Hilltoppers/BVARA VE RA Erie VE Test North Hills ARC Elmer Net
7 CA QSO Party W3KWH Open House & Special Event Station Ellwood City ARA Meeting QCWA Pittsburgh Net South One ARES Net WASH FM Net	8 Columbus Day Bum of the Month Lunch ARL of Lawrence Co Mtng. Breezeshooter's Net 2 Rivers ARC Net Triple "A" ARA Net Beaver Co Public Service	9 Foothills ARC Meeting Nittany ARC Meeting Coke Center ARC Meeting Ft.Venango M&K Meeting Punxsatawney AARC Mtng SATERN Net	10 North Hills ARC Meeting Laurel Highlands VHFS Mtg Steel City ARC Social Nite Allegheny Co SKYWarn Net Allegheny Co ARES Net Westmoreland Co ARES	11 WASH Meeting Horseshoe ARC Meeting Beaver Valley ARA Meeting	12 KQ3DX's last full day as a single ham, er, man Hey, where's the bachelor party? And are we invited?	13 PA QSO Party N3SH/3 Ops Breakfast Tri-County CW VE Test Skyview RS VE Tests North Hills ARC Breakfast 2 Rivers Ham'n'Eggs Brkfst Nittany ARC Coffee Call
14 Chuck Yeager Day PA QSO Party 2 Rivers ARC Meeting QCWA Pittsburgh Net South One ARES Net WASH FM Net	15 Monessen ARC Meeting Breezeshooter's Net 2 Rivers ARC Net Triple "A" ARA Net Beaver Co Public Service	16 Boss's Day Steel City ARC Meeting McKean Co ARC Meeting Tri-County CW ARC Mtng Juniata Valley ARC Meeting Pymatuning ARC Meeting SATERN Net	17 Huntington Co ARC Meeting Allegheny Co SKYWarn Net Allegheny Co ARES Net Westmoreland Co ARES	18 WASH VE Test Triple "A" ARA Meeting Breezeshooter's ARC Meeting Greene Co ARC Meeting Somerset Co ARC Meeting Cumberland Valley ARC Mtg	19 National Mammography Day 2 Rivers ARC Meeting	20 Jamboree On the Air Mercer Co ARC VE Test North Hills ARC Elmer Net
21 Jamboree On the Air Elk County ARC Meeting Ellwood City ARA VE Test QCWA Pittsburgh Net South One ARES Net WASH FM Net	22 Breezeshooter's Net 2 Rivers ARC Net Triple "A" ARA Net Beaver Co Public Service	23 Mercer County ARC Mtng Triangle ARC Meeting North Hills ARC Net SATERN Net GPVHFS Swap'n'Shop Net	24 North Hills ARC Activity Ft.Armstrong WA Meeting Steel City ARC Social Nite Allegheny Co SKYWarn Net Allegheny Co ARES Net Westmoreland Co ARES	25 WASH Kit Night WACOM Board Meeting	26	27 CQ WW SSB WASH Breakfast Indiana Co ARC VE Test Nittany ARC Coffee Call North Hills ARC Elmer Net
28 CQ WW SSB Daylight Savings Ends QCWA Pittsburgh Net South One ARES Net WASH FM Net	29 Breezeshooter's Net 2 Rivers ARC Net Triple "A" ARA Net Beaver Co Public Service	30 North Hills ARC Net SATERN Net GPVHFS Swap'n'Shop Net	31 Halloween Steel City ARC Social Nite Allegheny Co SKYWarn Net Allegheny Co ARES Net Westmoreland Co ARES	11/1 WACOM Meeting RA Erie Meeting	11/2 Elco ARS Meeting	11/3 Sweepstakes CW Hilltoppers VE Test RA Erie VE Test North Hills ARC Elmer Net

- WASH FM Net
9:00 PM ET
Sunday Nights
on the
146.955
and 443.650
Repeaters

LOOKING AHEAD:

- BCARA
Special
Event
Station,
November
11th
- WASH 2nd
Annual 2
Meter FM
Contest
January
12th, 2002
- WASHFest
2002,
February
24th, 2002

WASH 2001 OFFICERS

EXECUTIVE COMMITTEE:

President Ron Notarius WN3VAW
VP/Secretary Paul Lusardi NØVLR
VP/Treasurer Mark Stabryla N3RDV

AND WE COULDN'T DO IT WITHOUT:

N3SH / WA3SH Trustee Steve Lane W3SRL
N3SH / WA3SH QSL Manager Paul Lusardi NØVLR
VE Team Liaison Jacqué Gosselin N3ZEL
Webmaster Bob Sanford AA3FI
Quartermaster Harold Rosenberger KB3CPI
N3SH/WA3SH WASH Net Managers
FM Net (2 Meter & 70 cm) Bryan Beyer K3OL
Digital (10 Meter) Mike Serowik N3BSQ
WASHFest 2002 Co-Chairman Steve Lane W3SRL
(South Hills Hamfest) Bill Hill W3WH
Operating Events Chairman Bill Hill W3WH
Field Day 2002 Chairman Larry Comden K3VX
Ways & Means Carol Danko KB3GMN
Media Communications Kevin DeRose N3KFD

CLUB-AFFILIATED REPEATERS:

Mt. Lebanon	N3RNX/R	146.955 -	PL 131.8
Mt. Lebanon	W3SRL/R	442.550 +	PL 131.8
Canonsburg	N3BV/R	443.650 +	PL 131.8

N3SH/WA3SH WASHNET, the weekly on-air net of WASH, meets every Sunday Night, 9:00 PM ET, on the 146.955 & 443.650 repeaters. All radio amateurs, WASH members or not, are welcome to join in!

The **10 METER DIGITAL N3SH/WA3SH WASHNET** is on Hiatus and tentatively will resume in the Fall. Please contact N3BSQ or NØVLR for more information.

THE LEGAL STUFF

"**The WASHRag™**" (formerly "**The Mariner™**") is the Official Newsletter of the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC. (WASH)** Published Monthly with occasional Special Editions as warranted. This issue is © Copyright 2001 by the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.**

Editor & Publisher: Ron Notarius WN3VAW

Comments, articles, and requests for copies of or information about "**The WASHRag™**" should be mailed to the editor:

Ron Notarius WN3VAW
3505 Rosalia Avenue
Castle Shannon, PA 15234-2317

Email: wn3vaw@njdx.org, wn3vaw@arrl.net or wn3vaw@fyi.net

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The **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** was founded in 1993 as the original **SOUTH HILLS AMATEUR RADIO CLUB**, and operated under that name through 1998. WASH was also known briefly in late 1998 as the **N3SH AMATEUR RADIO CLUB**. It is not in any way affiliated with the "South Hills Amateur Radio Club, Inc." and is not responsible for that group, its members, or its actions in any way shape or form.

As always, special thanks to the owners of both the N3RNX/R Repeater System and the N3BV/R Repeater System for permitting the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** and its members to use their repeaters for club purposes.

WASH Amateur Radio Club News Briefs

Next WASH VE Test October 18th!

Our Next VE exam sessions will be **Thursday, October 18th, 2001**, at **7:00 PM**, at the *John McMillan Presbyterian Church*, 875 Clifton Road, Bethel Park, PA. Talk-in on 146.955 MHz. All examiners are ARRL VEC affiliated.

Walk-ins are always welcome, but if you plan on attending the test session, please contact VE Team Liason Jacqué Gosselin N3ZEL: Telephone (724)-746-9235 or E-Mail: n3zel@fyi.net

Please bring the following to your test session:

Picture ID or other suitable identification (2 forms of ID required)

Pen / Pencil / Calculator

Original FCC license plus a copy of license (if upgrading)

Original CSCE plus a copy of CSCE (if upgrading)

Check or Cash in the amount of \$10.00 (payable to: ARRL VEC)

The **WASH Breakfast Gang** gathered on a cool and sunny morning on September 29th for our monthly get-together, at **Dietz's Restaurant**. A smaller turnout this month consisted of W3WH, N3RNX, K3VX, WN3VAW, W3VFA and W3RWS. September 11th, PA QSO plans, and PC repairs and purchases were just a small part of the conversation. The next Club Breakfast will be Saturday, October 27th, at **Dietz's Restaurant**, Caste Village Shops, Baptist & Grove Roads. Hope you can make it!

Do You JOTA? Ted WN3BOJ is in the process of putting together a **Jamboree on the Air** demonstration, on the CMU Campus on Sunday, October 21st. Ted needs a few additional operators and some help with gathering and setting up HF equipment. He's hoping to run two demo stations — one voice, one digital. If you don't have any JOTA plans and can help Ted out, give him a call at (412) 784-8924, or drop him an e-mail at tpinsker@juno.com

Updated 2001 WASH Club Rosters are now available to 2001 club members (only), with some new members added and some updates and changes. They will be available at the meeting ; if you need one e-mailed to you, contact wn3vaw@arrrl.net. If you have any updates or changes (new phone, new email, not listed and you should be) please let Ron WN3VAW or Mark N3RDV know so that we can get it straightened out. Call listed in black on page 4? Then you need to talk to Mark about 2001 dues...

WASH 80 M DXCC Challenge Starts! As we mentioned two months ago, the WASH 80 M DXCC Challenge starts October 1st. The rules are simple — how close to 100 DXCC entities can you work on 80/75 between October 1st & May 30th? Remember, it's a friendly intra-club competition, so helping each other out is as important as working that next one. Let WN3VAW know your status near the end of the month, and we'll keep a running count in the newsletter for the duration!

WASH ARES Liason Needed: Citing personal matters, Frank N3XI has stepped down as the club liason to the Allegheny County ARES Net (meets every Wednesday evening, 9 PM, W3EXW/R 147.09+). The liason's job is to represent the club, and arrange for a WASH member to server as Net Control Station when it's our turn (about once or twice a quarter) as the Net Control Station. Anyone interested in filling the spot, please contact Mark N3RDV at the meeting, or send an email to n3rdv@arrrl.net. And — thanks Frank, from all of us, for serving in the position the last few months!

Is that an Altoid in your shack or are you just happy to work us? The September Kit Night session was another fun event, with the only downside being that a good many kits still aren't quite complete. We're tentatively scheduling Kit Night III for October 25th in hopes of wrapping up the 40 Meter QRP rigs, same time and place. Again, all welcome, even those who just want to watch and learn. With holidays coming up in November and December, we're thinking of resuming Kit Night in January. Any thoughts on a project? One that comes to mind is building one of the ubiquitous "plumbers delight" copper J-Pole 2 meter antenna designs (such as the one now on www.eham.net). But we're open to suggestions!

2001 ARRL DX Contest Phone Results were out at the end of the month. Here in Western PA, in the Low Power Category, Ed N3UE placed 2nd, and Ron WN3VAW placed 4th. Congratulations! (And now both have something to shoot for come next March!)

A Personal Note

As I've discussed with quite a few of you over the last few months, and mentioned at last month's meeting, next month's Club Officer elections will determine a new President for the WIRELESS ASSOCIATION OF SOUTH HILLS in 2002. I am not going to run this year.

I've had a great time the last three years with the entire group, make no mistake. It's been a lot of fun seeing the organization evolve into a group that a lot of the other clubs in the area look up to — we are getting a well deserved reputation as the radio club That Does Things, combined with an annually popular and successful WASHFest year after year, the 2M FM contest, the DXCC challenge, our hamfest cookouts... and don't doubt for a minute that we are a success first & foremost because of each and every one of you, who turn up for meetings, show up for events, participate to the hilt and keep coming back for more!

Two things come into play. I think it's time for a change, for someone else with some fresh ideas to have their turn. Just as important, I need to spend some more time with the family right now, and with more energy and effort needed both at home and at work, I just can't do it all anymore.

Don't worry, I'm not going away! And the newsletter editor will remain right where he is. It's been a great three years. Thank you all for every moment of it.

73, Ron WN3VAW

October mean's that we're one month away from WASH Election Night!

Two officers must be elected: President (1 year term) & VP/ Treasurer (2 year term).

Interested in running, or know someone who is? Nominations will be open at this month's club meeting

October for Nominations November for Elections Don't Miss the Next 2 Meetings!

Minutes, September 13th Meeting

Paul Lusardi NØVLR, VP/Secretary WASH

The meeting was called to order at 19:18 by WN3VAW. There were 27 members and 1 guest present.

A moment of silence was observed for recent silent keys, the September 11th victims, and other deserving persons.

Introductions were then made all around, as is our custom.

A motion was made to accept the minutes of the July meeting as published in the newsletter was made by Kevin N3KFD, seconded by Bill W3WH and carried.

Committee Reports:

Treasurer (N3RDV): Read and accepted.

Secretary (NØVLR): Reminder to all that the ARRL is hosting an Emergency Preparedness class on the web — see the ARRL Web site for more details.

VE Team (N3ZEL): VE Session next month.

Repeaters (W3SRL/N3RNX): A full set of manuals for the newly acquired repeater equipment has been obtained. All is well with the machines.

FM Net (K3OL): Recent nets have been averaging 25 check-ins. Thanks for all the help from new and veteran NCS's.

Digital Net: (N3BSQ): Mike stepping aside as work commitments have prevented him from being involved in the net.

Activities (W3WH): Looking into level of interest by Club members in a Dxpediton vacation with spouses, possibly to the Carribean, sometime in the future (2002 or 2003)

(WN3VAW): Reminder that Kit Night II is next week

(KB3GMN): Discussed change of plans for the 2001 Christmas Party, suggested we hold it at Al's Café instead of the church.

(*Cost per person originally thought to be under \$10, but this did not include tax & gratuity — Ed.*) Motion to move the party, and to allocate \$200 to defer costs, by Bill W3WH, 2nd by Bob W3RWS, carried. Discussion of an HT raffle as part of the party brought interest but no motion.

Public Service (W3SRL): Discussion of Mt. Lebanon agreement with 911 Center, there may be a practice test scheduled sometime. (N3RDV) ARES Net activated on September 11th for 24 hours, some operations in Somerset still ongoing by SATERN. Great Race scheduled at end of the month. EC and ARES meeting to be held on September 22nd at Allegheny County EOC by KA3VXM, contact Kathy if interested or for more details.

Contests: (K3VX): PA QSO: Clarion N3SH multi-op station again at N3SBF/KB3GMN's Cabin, thanks to both of them for hosting. Possible WA3SH QRP operation as well. Ops needed for all. WN3VAW received a letter from PaQP Chair John W3JAW asking if we would sponsor a plaque again; motion by Steve W3SRL, Ed N3ZNI seconded, carried. N3ZNI is looking for a logger for his mobile operation. No takers, but Shawn NØPEU offered to drive (laughter!)

Newsletter (WN3VAW): No report

President (WN3VAW): Tech class cancelled, no students. Reminder that nominations for officers will be next month, elections in November, announced that he is not running for re-election.

Old Business: none

New Business: none

Good of the order: Rich N3SBF reminded everyone that Steel City ARC will be holding a 60th Anniversary Open House & Special Event station on October 6th & 7th, all welcome.

Motion to adjourn: made and seconded by many and carried. Meeting was adjourned at 20:20.

Presentation by N3BSQ of Homebrewed APRS tracker kits followed.

2001 Christmas Party Plans

(It may seem a little early to be talking about a Christmas Party, but if you don't make reservations soon, you may not find a place available on the date you want!)

The 2001 WASH Christmas Party & Holiday Celebration will be held on Thursday, December 13th, at **Al's Café**, 440 McMurray Road, Bethel Park, starting at 6:30 PM.

The cost will be \$12 per adult, \$6 for children over 3. Cost includes all taxes and gratuities. Dinner includes Rigatoni with Meat Sauce, Fried Chicken, and Cabbage Rolls. A deli platter will also be available for those who prefer a sandwich. And of course, potato salad, cole slaw, and so forth.

Why the change? Well, every year we have a lot of hard work from club members and/or their spouses to organize and set up the party at the church, clean up, and so on. This year, we're going to give everyone a break so that everyone can relax and enjoy the festivities.

The party is open to all club members, their family members, and friends of the club. However, space is limited, so if you're planning on coming, please contact Carol Danko KB3GMN at (412) 884-1466 or kb3gmn@msn.com to make sure that we have a reservation for you and your family! Hope to see you there!

Monthly WASH Breakfast Saturday, October 27th



Please join us for the next WASH Breakfast! We get together on the LAST Saturday of every month for a chance to informally sit down, shoot the breeze, compare notes, and just have a good time together!



Join us at **Dietz's Restaurant**, Baptist and Grove Roads in the Caste Village Shops. Start time is about 8 AM until whenever. Monitor 146.955 & 443.650 for talk-in or any last minute changes. All are welcome, WASH members or not, amateurs or not! See you there!

Wireless Association of South Hills Membership

AA3FI	KB3ERQ	N3KFD	N3XI	W3VFA
AA3JS	KB3FGO	N3MJQ	N3YPB	W3WH
K3BZW	KB3FNM	N3QMV	N3YQY	W4ZE
K3LIE	KB3FQT	N3RDV	N3ZCG	WA3JPP
K3OL	KB3FZU	N3RHT	N3ZEG	WB3BPH
K3VX	KB3GMN	N3RNX	N3ZEH	WB3GTL
K3WR	KB3GMO	N3SBF	N3ZEL	WN3BOJ
KA3PPH	KB3GMP	N3TBK	N3ZNI	WN3VAW
KA3TFB	KB3GOT	N3TES	N4MIS	Dan Mohr
KA3TWI	KD3JV	N3UE	N8DPWV	JoAnn Cottrill
KA3UPY	KE3XB	N3UIW	NP2JF	Marilyn Nizinski
KA3WZO	KQ3DX	N3VEH	W3GEL	
KB3ANH	NØPEU	N3VVL	W3HND	K3EED (SK)
KB3CPI	NØVLR	N3VWF	W3JAF	N3KEH (SK)
KB3DCO	NØWPV	N3WPT	W3RJM	N3OBD (SK)
KB3DSB	N2QIV	N3XFE	W3SRL	W3ZLK (SK)
KB3ECD	N3BSQ			
KB3ENX	N3CCC			
KB3EPC	N3CZZ			
KB3EPI	N3IDH			

Through September 30th, 2001
List compiled by
Mark Stabryla N3RDV
Vice President/Treasurer

NVIS: Who's Call is That?

John Benitez KE3XB

No, it is not a call with the number left out. What the heck is NVIS? It stands for **Near Vertical Incident Skywave** communication. It is a HF communication technique that helps your signal readability for short range areas. Can't I just use VHF or UHF or something with more or less line of sight then? Well, short range in HF terminology means somewhere longer than groundwave, but shorter than traditional reflected skywave. What the heck does that mean? Well, by adjusting your radiation angle and choosing an appropriate frequency you can define what kind of a ranges you can transmit! The higher the angle, the more near vertical the signal is, which means that your signal gets sent almost overhead to the ionosphere where it is reflected back. Since the signal went almost straight up, it comes down almost straight down! This way, you can have an operating range of 200 miles in any direction!

The book, **Near Vertical Incidence Skywave Communication: Theory, Techniques and Validation**, by Lt. Commander David M Fiedler and Major Edward J. Farmer, is excellent reading to understand this. At \$14, not a bad buy and published by Worldradio Books. I purchased mine from Universal Radio.

The book is actually a collection of papers, primarily by the above authors, which describe the theory, the practice and some examples of its use. Apparently the authors are officers in the Army National Guard. They critique things they learned about communication theory, and explain why NVIS is helpful to the military, and to amateurs looking at communicating short distances. The chapters are outlined as follows:

Part I: How and why NVIS works

- Chapter 1: Beyond line-of-sight propagation and antennas
- Chapter 2: Skip the skip zone
- Chapter 3: NVIS Propagation at low solar flux indices
- Chapter 4: NVIS antenna fundamentals

Part II: How to do it

- Chapter 5: The HF NVIS radio path
- Chapter 6: Near Vertical Incidence Skywave (NVIS) propagation
- Chapter 7: Mobile NVIS: the New Jersey Army National Guard Approach
- Chapter 8: Optimizing low power high frequency radio performance for tactical operations
- Chapter 9: HF radio communications and high angle antenna techniques
- Chapter 10: How to survive long range and special operations
- Chapter 11: Antenna Performance for NVIS communications
- Chapter 12: US Army FM 24-18: Tactical single-channel radio communications techniques
- Chapter 13: A NVIS Refresher

Part III: Yes, it works!

- Chapter 14: NVIS a key to D-Day success
- Chapter 15: Marine tests prove Fiedler's NVIS conclusions
- Chapter 16: A cloud warmer antenna is best for local HF coverage
- Chapter 17: Battle force electronic mail
- Chapter 18: Test report: NVIS Demonstration

There were several "eye-opening" moments for me while reading this book. I had always thought and had been taught that a simple wire dipole antenna would radiate primarily out its broadsides. Well, with a dipole configured for NVIS, it becomes an omnidirectional antenna!

My current NVIS antenna in NY is about 10 ft of the ground, oriented in length approximately from NNE to SSW. I get great omnidirectional coverage of ME, VT, NH, MA, PA, NY, OH, ML, DC, VA, WVA. Other states come in also, but not as good as the above. Most people I've

talked to from the above states describe my signal as 5/9 + 10 at least! I primarily use 40 meters for this and put out anywhere from 100-200 watts. The key, according to the book is to use an antenna height that is between 1/10 to 1/4 wavelength above ground. (see figure) They even mention some that are 1 ft or less above ground and one that is actually buried! As you can imagine, interference to nearby electronics (neighbors!) is minimal as most radiation is near-vertical. In fact, they mention that this is a good technique in the military because radio direction finding is thwarted when there is minimal or no low-angle radiation.

They describe the construction of a horizontal dipole antenna for a vehicle (for 80-40 meters). I have not tried this, but should be better than a simple vertical antenna for the same frequencies and NVIS. This may be a project for next year!

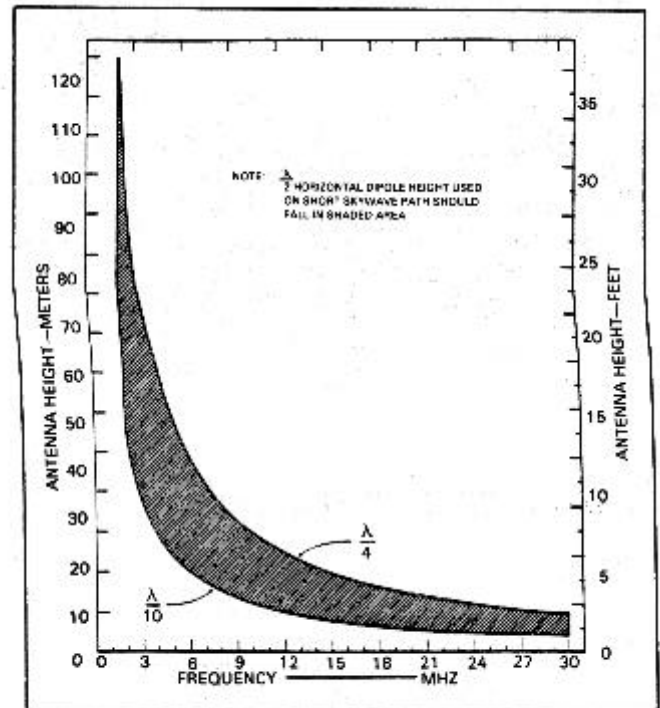


Figure M-11. Recommended dipole height for NVIS applications.

The Steel City Amateur Radio Club, W3KWH, will be celebrating their 60th Anniversary this October with an all-band Special Event station and Open House on October 6th and 7th at the Steel City ARC Clubhouse,



208 McMichael Road in Collier Township, about a mile from Settler's Cabin Park, and only a few minutes from the Campbell's Run Road exit of the Parkway West. Talk-in available on the W3KWH Repeater, 147.03 MHz.

Operation each day will be from 1400 – 2200 Z (10 AM to 6 PM EDT), on or about the following frequencies: 7.260 MHz, 14.260 MHz, 21.360 MHz & 144.160 MHz. Each QSO will be confirmed with a special event QSL Certificate. Postage will be covered by SCARC; QSL via their callbook address.

Congratulations to our friends and fellow amateurs at Steel City on their anniversary!

In the Uncertain, Anxious Middle

Joe Phillips K8QOE, courtesy of the September 2001 issue of the IARC/MASER *Airwaves*

His face would smile, then frown, then re-smile — sometimes in just completing the same sentence.

Fret Osterman, N8EKU, is president of Universal Radio, Inc., or more well known in ham radio circles as the Columbus area candy store. Fred was reacting to that uncomfortable position he and other dealers (like R&L Electronics, Hamilton, or AES Cleveland) find themselves.

In the anxious middle between changing ham radio customer needs and wants, and changing ham radio manufacturers needs and wants.

A smile means optimism when certain customers at his Reynoldsberg store using retirement time to purchase new rigs and revisit new modes in the hobby by upgrading the ham shack. A frown means pessimism while reading ARRL statistics which show 1% of his potential customers are 25 years of age or less, and it only rises to 3% at age 34. Economic futures of ham radio? Shifts from good to rough quicker than a rocking chair.

In the good old days, oh, about 25 years ago, we had several small electronic stores in most major communities. Cincinnati had three in the early '70's. Then along came progress — a hobby with less radio building philosophy and more manufactured completely wired transceivers and hand helds.

That change and those 800 numbers in ham radio publications (like QST) have had a profound impact on the market. You don't have to be a Washington economist to understand that.

The small stores disappeared. But a restructured Universal Radio, for example, still needed customers well beyond the Central Ohio area even when it became the only candy store in town. To go to the outside their city sales, the marketing strategy calls for mailing catalogs across the US, purchasing ads in ham radio national magazines, and the newest component — an Internet web site (Universal's is www.universal-radio.com).

Since the distant customer now becomes a major marketing strategy, Fred seems genuinely proud of his Internet efforts. His contribution is to have the web site demonstrate as close as possible to actually trying the merchandise in the Reynoldsberg showroom. Computer screens display a rig's front panel and styling, another shows the rear sections for connectors, another displays all possible uses for the rig — and all is calculated to give a prospective customer as close to a hands on experience as the computer screen can allow. In the actual Reynoldsberg showroom, Fred has for inspection \$50,000 worth of equipment, parts, and components for those who walk in for the actual hands on experience.

Then there are hamfests. Increasing costs and, even more important, decreasing returns at many hamfests

mean fewer trips. As for the Dayton Hamvention, the quick perception is that dealers like Universal make a fortune. No, says Fred, that's not the experience. With dozens of dealers jockeying for sales and the overhead expenses of being there, Hamvention is generally a public relations exercise — it is important for us to be there, show the flag, and support the show.

But as the economics of ham radio changes, he said that his crystal ball has but 10 years of future in it.

After that, who knows?

ARRL Atlantic Division Director Bernie Fuller, N3EFN, presented WASH Member Jim Weslager K3WR, of Jeannette, Pennsylvania, with the ARRL Certification and Continuing Education Award. The presentation was made Sunday, September 9th, during the ARRL Western Pennsylvania Section Convention in Butler, Pennsylvania.

Last year, the ARRL Certification and Continuing Education Program sponsored a contest to design the perfect logo for the

Amateur Radio Emergency Communications Course. A committee of several ARRL staffers sorted through some three dozen designs from around the US. After discussion and screening, the committee chose K3WR's logo, which now is used in association with the Amateur Radio Emergency Communications Course. "We sincerely thank Jim and everyone who participated in the ARECC logo contest for their great efforts and support," said ARRL Certification and Continuing Education Coordinator Dan Miller, K3UFG. (Information courtesy the ARRL Web "In Brief" Column)

Congratulations Jim from us all!

Photo courtesy Atlantic Division Vice Director Bill Edgar N3LLR



Electronic devices run on smoke. If you let the smoke out, they cease to function.

— A corollary of Murphy's Law courtesy K7JEM

There is a theory which states that if anybody ever discovers exactly what the Universe is for and why it is here, it will instantly disappear and be replaced by something even more bizarre and inexplicable.

There is another theory which states that this has already happened.

**— Douglas Adams
The Hitchhikers Guide to the Galaxy**

Ever wonder why Pittsburgh no longer has an FHO, Westech Electronics, Cameradio, or Tydings Company? This might just give you a clue as to what a dealer has to go through to survive nowadays...

PA QSO Plans as of October 2nd

Bud Trench AA3B, From the Pa QSO Party Reflector

Here is a summary of plans I have collected as of 10/2/01. I have tried to maintain the list such that you can track the progress of mobiles / rovers through the course of the contest.

County	Call	Notes	N8LXR/M Saturday:	PHI
ALL	WE3U		MGY DCO	CHE
	N3KFD		BER LAN	LEB
ARM	N3WAV/M		DAU YOR	CUM
BEA	W3DUG		PER JUN	MIF
BED	N3NWA/P SSB		Sunday:	UNI
BER	AA3B		NUM SYN	MTR
BUT	N3MSE		W3/VE2EM//M Saturday:	
CMB	WA3SES/P HF CW & SSB		BEA LAW	MER
CRN	W3SK/P		BUT ARM	INN
CAR	N3CR		Sunday:	JEF
CHE	WT3P		CLA VEN	MER
CLA	N3SH/P Multi Op 2 Trans?		CRA	
CLI	KC2ZA/P All Modes		WA3RA/M Saturday:	
CRA	AD8J/P		PIK MOE	WAY
DAU	KQ3F		LAC SUS	WYO
DAU	WB3JIS		LUZ COL	MTR
DCO	N3AO/P QRP		NUM LYC	UNI
ELK	KE3FO/P		CLI CEN	CLE
FAY	K3MI		JEF CLA	VEN
HUN	NA3V/P		BUT MER	LAW
INN	KM3M		BEA ALL	WES
	KD8MQ/P		WAS FAY	SOM
JEF	W3TDF/P		BED FUL	HUN
LAC	KA3QLF		Sunday:	
LAW	AA8QQ CW		FUL HUN	FRA
	N3DQU CW		YOR CUM	PER
	KA3X CW		DAU LEB	LAN
	N3XC SSB		MGY DCO	PHI
	N3NWK SSB		BUX MGY	LEH
	WB3JQY SSB		NHA CAR	LUZ
LYC	KC3M CW Only		K8MR/M Sunday:	
	N3JIX SSB Only		MER VEN	BUT
PHI	K3ZV		ARM CLA	JEF
PIK	N3GWR/P		FOR WAR	MCK
SOM	K8SYH/P		ELK CLE	CEN
SUL	K3BM		HUN BLA	BED
TIO	KF3DY/P Sun May move to BRA and POT		SOM WES	ALL
	KM3D/P KM3B & KE3FC		BEA LAW	
UNI	KM3D/P		W3USA/M to be announced	
WAR	N3FR/P		W3DYA/M to be announced	
WAS	K3OL QRP		CW Only	
	N3KMJ QRP		W3RJM/M Sunday Afternoon	
	W4ZE SSB		SSB Only	
WES	AA3ML		PA Turnpike from	
WYO	K3CSG Bonus Station		Harrisburg to	
YOR	K3SWZ QRP		Pittsburgh	
W3FF/R	JEF Unsure due to		to be announced	
	CLE Air Travel	N3ZNI/M		
	INN			
KN4SK/R	ARM INN CMB			

The FCC's Wireless Telecommunications Bureau has announced that, starting Monday, October 15th, it will dismiss all submittals it receives on Form 605 Quick-Form Application for Authorization in the Ship, Aircraft, Amateur, Restricted and Commercial Operator, and General Mobile Radio Service that bear edition dates prior to March 2001.

This change does not affect applicants filing on-line via the Universal Licensing System (ULS).

Amateurs can avoid problems by submitting on-line application via the FCC's Universal Licensing System Web site. To obtain a current copy of Form 605, visit the FCC "Forms" page. Paper copies of Form 605 also are available from the FCC Forms Distribution Center, 800-418-3676

— FCC WTB Bureau courtesy the ARRL VEC / W9JJ

I would like to remind all ARES leaders and members that effective immediately the only accepted ARES ID Card is the standard one issued from the ARRL. On the back it is designated as FSD224. They should have a picture attached to them as well. The signatures should be original on each and every card. No signature stamps or digital signature are acceptable. The plastic cards that are bought at hamfests are NOT acceptable in the Western Pennsylvania Section. Individual EC's are not to design or use their own ID cards.

— John Rodgers N3MSE, WPA Section Manager

(Salvation Army Continued from page 1)

because of traffic and loading and unloading delays. "They try for 4 PM as a shift change time," he said. Operators start and end these shifts at Salvation Army Division HQ on 14th Street in Manhattan, where SATERN also needs operators.

Schneller said that, if sufficient additional operators are available, they may be deployed to check on canteen sites and/or ride with other vehicles that are providing Ground Zero support or relief.

"Radio usage is becoming less emergency-oriented and more long-term logistical support oriented as time goes by," Schneller said.

"Response from around the nation and the world has been heart-warming, especially those amateur operators who were willing to put their life on hold, so that they could come help out for a few days or weeks in NYC."

Schneller said the word he has from Salvation Army is that the organization is happy with the Amateur Radio support they've been getting. "They want us to keep going," he said. So far, he said, some 40 Amateur Radio operators have turned out to help support the Salvation Army relief effort--some from the New York City area but others from as far away as Missouri, North Carolina, Georgia and Florida.

Schneller requested that potential volunteers contact him directly:

Home: 718-461-0370

Cell : 917-226-1339

Page: 718-939-3939 (give message to operator)

Ham radio: Call N2HPO on 147.270+ (141.3 or 127.3 CTCSS).

— courtesy of the ARRL Web Extra news page

The Butler County Amateur Radio Association is planning a Special Event Station to honor America's Veterans, at the VA Medical Center (VA Hospital) in Butler, on Veteran's Day, Sunday, November 11th. Event times are not established yet, but plan on setup starting at about 0800 and closing sometime around 1600.

The goal is to include as many Veterans (from the facility and community) as possible in the QSO's. We look forward to honoring our Nation's Veterans who have sacrificed so much, so that our country can remain free.

— Fred Held N3FH courtesy the BCARA Tell-A-Ham

The Kuwait Amateur Radio Society — in conjunction with the Kuwait Ministry of Communications — has authorized the use of the call sign 9K2USA by all radio amateurs in Kuwait. The authorization is being



characterized as "a small token of the sympathy and support for the people of the United States from the citizens of Kuwait, and as an expression of deep condolence"

following the deadly terrorist attacks on New York City and Washington, DC. The authorization will continue at least through the end of September. The Kuwait Amateur Radio Society will handle QSL chores using a common database, and all QSLs will be via 9K2RA, e-mail 9K2RA@kars.org.

Visit the KARS Web site <http://www.kars.org>.

— Bob Furzer, K4CY/9K2ZZ

The DX Magazine's annual "Most Wanted" survey is now available on the DX Publishing Web Site, www.dxpub.com/dx_survey2001.html.

Results of the WorldWide 2000 Survey are posted under "DX News." The continental/mode breakdown was published in the January-February and March-April issues of *The DX Magazine*. "Some of the totals in recent years indicate errors in marking the survey form," said Publisher Carl Smith N4AA. He suggests that hams responding to the survey be especially careful to mark the correct boxes.

— courtesy of the ARRL Web "In Brief" column.



Silent Keys



Steve Jacobson N2SJ, Engineer, WPIX TV, September 11th
 Bill Steckman WA2ACW, Engineer, WNBC TV, September 11th
 Rod Coppola KA2KET, Engineer, WNET TV, September 11th
 Bob Cirri KA2OTD, Port Authority Police Officer, September 11th
 Michael Jacobs AA1GO, Employed at WTC, September 11th
 Winston Grant KA2DRF, Employed at WTC, September 11th
 William Ruth W3HRD, Pentagon Employee, September 11th

Ed Clegg W8LOY, Founder, Clegg Communications, September 9th
 Steve Linn N4CAK, FCC Staff Member, September 21st

DX News Briefs



DL7AFS, DJ7ZG, DL2FAG, and DL8GCS/IV3NVN will be QRV as **C98DC** from September 28th – October 13th. Look for them on 160 – 6 meters including WARC, RTTY & PSK31. QSO's with DL7AFS operating will be specially signed to validate them for YL Awards. QSL via DL7AFS or direct — DJ7DG & DL7AFS

Members of the Marconi Contest Club will be active during the CQ World Wide SSB contest as **D44TC**. This appears to be a permanent new contest station, and they will also be active in most or all of the upcoming major contests. QSL via IV3TAN. For more info or to arrange a schedule, e-mail d44tc@libero.it — I4UFH

The Conway Reef Dxpedition is currently QRV from Fiji while waiting for their equipment to catch up with them. **3D2AD** is one of the calls from Fiji. The Conway Reef calls haven't been announced yet. — KI4RU, W3UR, YT1AD & the entire NJDXA DX News Reflector

ON4ALW is now **ON7YX** — ON7YX

QSL Routes:

ZA1E via I2MQP – WP4F

D44TC via IV3TAN – I4UFH

7S2W via SK3BG – IN3NJB

VP5L via LA5KO — N7YA

3CØR via EA5FVY – N7YA

B15Q via BA4EG — KDØAL

JWØPK via SP5DRH — IK21XDE

GJ2A via GJ3DVC — KI4RU

JT1CO via W3HNK — W3HNK

UM9AA via UK9AA — KRØI

Look for **V63HJ** October 22nd–28th, 20 through 6 meters, all modes. QSO via the operator, JE1LES — Japan DX News

"I have been asked by the former QSL manager to reply to all the QSL cards for the **IQ4T** contest station. The station was active from 1994 to early 1998 in all the major contests, and after going through a relocation step, is ready to return on the air at the end of the year. Due to some personal problems, the former QSL manager has not been able to answer to all the cards flowing in during the last years. He just gave me all the logs, a big pack of cards received via the bureau during the last years as well as a big supply of blank QSL cards. I will now start answering all bureau cards." — IK4WMH

N5UR reports that the **outgoing PY1 Labre QSL Bureau**, according to a friend of his in Brazil, is "broken." They have 80 kilos of cards dating back 3 or more years waiting to go out but stuck due to lack of funds — N5UR

Three ops were slated to be QRV from **T32** Christmas Island October 1st — 10th: **T32CY** (JA1PCY), **T32EQ** (JR7TEQ) and **T32RJ** (JP1TRJ). QSL via operator's home calls — Japan DX News

Look for **VYØ/7K1WLE** or **AK2M/VYØ** from Resolute Bay (Canada north polar region **CQ Zone 2**, IOTA NA-009) from October 25th to 31th. He will be active mainly on low bands as he is studying the influences of low band propagation by aurora. — JF6QJX/KH7J

N4CD hopes to be QRV from Vietnam, **3W6** land, starting October 2nd through Oct 15th. 10, 15, 20, & 40m operation. No other bands likely due to tight restrictions. Call sign unknown although he asked for 3W6CD — N4CD via W5ADH

Eric **T3ØES** is a Peace Corps volunteer on Butari Tari Island (OC-17). He is working in the health field and will be there for another year plus. He runs low power with a Kenwood TS-430S, on batteries, which are charged on a solar panel which he borrows from a friend. His antenna is a dipole strung between two coconut trees. QSL via CARA, PO Box 3441, Danbury, CT 06813 — W4FOA

Thanks to the NJDXA DX News & DX Chat Reflectors, 425 DX News, OPDX News, & ARRL DX Bulletins for our DX News information. Thanks also to Bernie McClenny W3UR/The Daily DX for confirmations & additional information.

FCC News

NEWINGTON, CT, September 18th, 2001 — The FCC has told the owner of the W6NUT repeater in the Los Angeles, California, area to expect a letter terminating authority to operate the machine under automatic control until further notice. An FCC review into the repeater's operation initiated last winter followed allegations that the licensee or control operator failed to address "long periods of jamming by users, broadcasting, music playing as well as a plethora of other violations."

The latest chapter in the W6NUT saga came in a September 7th letter to repeater owner Kathryn Tucker, AA6TK, from FCC Special Counsel for Amateur Radio Enforcement Riley Hollingsworth. Hollingsworth specifically cited incidents of alleged rules violations in early February on W6NUT and reiterated that extensive monitoring of W6NUT showed "no evidence that a control operator even exists for this repeater." The FCC also has reported receiving numerous complaints about W6NUT.

In her reply to the FCC, Tucker identified her husband, Roy Tucker, N6TK, as the primary control operator "24 hours a day, 7 days a week, 52 weeks out of the year." But elsewhere in her response, Tucker noted that he was not on duty during the alleged misbehavior in early February that prompted the FCC review. Tucker also told the FCC that it was not the repeater's policy "to attempt to remove unruly operators" from using W6NUT. As for complaints, Tucker told the FCC that their policy was to let them "go in one ear and out the other."

Hollingsworth's September 7th letter suggested that Tucker was misinformed about the FCC rules governing repeater operation. He also asked Tucker to document her designation of Roy Tucker as the W6NUT control operator, and he noted that the rules hold licensee and control operator "equally responsible for the proper operation of the station." Automatic control does not absolve the licensee or control operator of the responsibility for illegal or improper conduct that airs, Hollingsworth explained. While there's an exception for inadvertent communications that violate the rules, he said, FCC rules do not consider improper or illegal conduct that's repetitive or continues for hours or days to be inadvertent.

The rules do "not exempt the repeater station licensee from responsibility for the proper operation of his or her station or allow a repeater station licensee to ignore complaints, Hollingsworth wrote. "Given your response, it is evident that you do not understand the duties of a control operator," Hollingsworth said. "Further, we find no merit to your implication that the responsibility of the owner/licensee/control operator of a repeater ends with technical operation of the station's equipment."

Hollingsworth said Tucker's understanding of automatic control — as indicated by her reply — was "in error." Automatic control is not a method of operator control, he said. Under automatic control, a repeater may be operated without a control operator to babysit the repeater, provided devices and procedures are in place to ensure technical compliance.

Hollingsworth requested that the licensee or the control operator conduct a time and usage study of W6NUT's operation for 14 consecutive 24-hour periods to demonstrate that the repeater can comply with FCC rules without a control operator on duty. He said the FCC wants to know the date, time and length of transmissions, the stations originating the transmissions, a brief summary of the content, notes about any apparent violations, the times the control operator had to act to "insure the immediate proper operation" of the repeater, and any down periods. Hollingsworth said the repeater



ARRL Web Extra courtesy American Radio Relay League

may continue to operate using remote or local control in the meantime. Tucker was given 30 days to respond.

The W6NUT repeater on 147.435 MHz has attracted a following of what some observers call "nontraditional" amateur users. It also was said to have been radio home of Richard Burton, ex-WB6JAC, sentenced earlier this year to prison for unlicensed operation.

As a result of the early February incident, Gregory S. Cook, ex-KC6USO, of Chico, turned in his license, and the FCC ordered Ted R. Sorensen III, KC6PQW, of Agoura Hills off all repeaters on the 144, 222, or 440 MHz bands for the next three years.

The FCC has acted on longstanding renewal & upgrade applications from a Michigan ham whose operation had come under Commission scrutiny, renewing the license of Allen J. Stap Sr, N8OKU, of Gobles for a two-year term, provided he follows FCC rules.

Stap's upgrade to General Class was held in abeyance for more than a year while the FCC evaluated his written and on-the-air responses to earlier sanctions. FCC Special Counsel for Amateur Radio Riley Hollingsworth, K4ZDH, detailed the sanctions in a letter to notify Stap of the short-term renewal.

According to Hollingsworth's letter, Stap entered a plea of no contest in May 1997 to violation of a Michigan statute that makes it a misdemeanor to "prevent, interfere, obstruct or impede a public safety radio communication." Stap was accused of intentionally interfering with a RACES station engaged in test operations in support of civil defense communications, Hollingsworth said.

Stap served a "delayed" sentence of nine months after agreeing not to operate on 2 meters and to surrender his radio equipment to the police. After nine months, the restrictions against Stap were lifted and the charge dismissed.

Subsequently, Stap was notified by the FCC to answer to interference complaints. "In 1999 we received complaints about your interfering with Kalamazoo, Michigan, repeaters, and you received a warning letter on February 23, 2000," Hollingsworth noted. When Stap's filed an application for upgrade to General in May 2000, Hollingsworth had queried Stap about the 1997 criminal case.

In the interim, Stap's license came up for renewal. "Since that time we have received no complaints, and therefore, you are receiving a two-year grant," Hollingsworth said. At the same time, the FCC acted on Stap's application to General class. Hollingsworth told Stap that he may routinely renew his Amateur Radio license if he follows the rules during his current two-year term, but that valid complaints of rules violations could lead to a license revocation hearing.

FYI Networks

For Your Information needs

FYI Networks, an Internet Service Provider in Pittsburgh and surrounding areas since 1995, is offering all members of WASH their Basic Internet account for only \$18/month. This includes one e-mail box, 3 MB of disk space, web page hosting, Telnet & FTP access, and in some areas Toll-Free 500 Area Code service. Call FYI toll-free at 1-877-FYI-4NET, or e-mail them at sales@fyi.net, for more details or to sign up. **You must mention that you are a member of the Wireless Association of South Hills to get the discount rate.**

Many thanks to FYI Networks for making this special offer available to us for the past three years!

Official Rules, 44th Annual Pennsylvania QSO Party

Sponsored by the Nittany Amateur Radio Club, PO Box 614, State College, PA 16801

OPERATING PERIODS: 1600Z October 13 to 0500Z October 14 & 1300Z October 14 to 2200Z October 14, 2001.

FREQUENCIES:

SSB: 1850, 3980, 7280, 14280, 21380, 28310, 50.125, 146.55

CW: 40 KHz up from the bottom and 1810 KHz.

Try 160 meters at 0300Z Sunday: (Follow 160 Band Plan — CW - 1.800-1.830, SSB - above 1.850)

Tech & Tech Plus: 28310, 50.125, 146.55

12,17, & 30 meter QSO's **NOT** permitted.

V/UHF QSO's are permitted and encouraged — but, of course, no repeater contacts. Use of V/UHF rig does NOT make you MM!

MOBILE WINDOW: 5 kHz below listed frequencies. **KEEP CLEAR FOR WEAK MOBILES!**

EXCHANGES: Sequential Serial Number & County or ARRL/RAC Section. Stations on county lines will give out ONE serial number per contact but all counties may be counted as multipliers. Work stations once per band and once per mode. Work mobiles and Rovers again as they change counties.

SCORING:

POINTS: CW QSO's on 160 & 80: 2 points
Other CW QSO's: 1.5 points
SSB/FM QSO's 1 point

MULTIPLIERS: Pennsylvania Stations:
ARRL sections + RAC sections + PA Counties + 1 for DX (152 total)
Out-of-State Stations:
Pennsylvania Counties (67 total)

BONUS POINTS & MULTIPLIERS:

QRP BONUS MULTIPLIER — Multiply your final score by 2 if less than 5 watts output.

NOVICE/TECH BONUS MULTIPLIER — Multiply your final score by 3 if a Novice or Tech.

PA MOBILE BONUS POINTS - If mobile, add 500 points for each county operated from (10 QSO's Minimum).

PA ROVERS BONUS POINTS — Add 500 points for every location operated from (10 QSO's Minimum).

SPECIAL EVENT STATION: Add 200 points for EACH QSO

FINAL SCORE - Total Points X Total Multipliers

MOBILE & ROVER DIVISIONS: Mobile stations must be truly mobile.

Rover division stations **MUST** use a portable antenna and must travel more than 5 miles between stops. Submit summary for each QTH as well as an aggregate summary. Stations should identify by using /M or /R on CW and by adding "Rover" or "mobile" on SSB. Only single transmitter entries are eligible for awards. Remember, many county lines are on tops of mountains.

SPECIAL EVENT STATION: Each year, a different Pennsylvania Club will set up and operate a special event station as part of the contest. This year the Scranton Pocono Amateur Radio Klub, K3CSG will be the designated special event station. K3CSG will be active on all bands. **Add 200 points for each QSO** (once per band and once per mode) to your final score after all other bonuses have been taken.

ENTRY DIVISIONS:

Single Op QRP (5 Watts or Less)
Single Op Medium Power (>5 to 150 Watts)
Single Op QRO (>150 Watts)
Single Op CW Only (150 Watts Max)
Multi Single
Multi Multi
Portable (Single Op or Multi Single Only)
Novice/Tech
Mobile
Rover.

NOTES:

1. QRP is defined as all contacts on any radio running 5 W or less.
2. Single ops & multi-single — only **ONE** Signal on air at one time!

AWARDS: Plaques to top scores in ALL ENTRY DIVISIONS plus single op OUT-OF-STATE plaque for winner in Eastern, Central, and Western Time zones, single op med & high power EPA, single op med & high power WPA, plus others as warranted. Plaque to top Canadian entry. Certificates to worked all counties and worked all section winners. Trophy awarded to Club winner. (Plaque in "Rover" and Canadian division if enough entries). Plaques are issued to out-of-state Medium Power & out-of-state QRP.

SPECIAL PLAQUE FOR TOP FIRST TIME ENTRANT: Intended to encourage new contesters, a plaque will be awarded to the top single operator entry from Pennsylvania who enters the Party for the first time. (If you got your feet wet logging or operating briefly at a multi-op station you're still eligible.) **Attention Clubs**, encourage your new members to get on and compete for this handsome plaque. (Not intended for "Big Guns" from other Contests!)

PARTICIPATION COFFEE MUGS: Anyone who makes 100 QSO's during the Party is eligible for a handsome PA QSO Party Coffee Mug with your call emblazoned. To order, include your log showing 100 or more QSO's and a check for \$15.00 made payable to "NARC".

SPECIAL PLAQUE FOR WORKING ALL 67 COUNTIES: If you work all 67 counties during the Party, a special plaque will be awarded in recognition of that feat. The committee will verify QSO's from log information. To order, submit a special summary sheet (in addition to your entry summary) listing county, call of station worked, date and time of QSO and numbers sent and received. Please enclose a check for \$29.00 made payable to "NARC".

LOGS & DUPE SHEETS: Logs must be submitted with an official summary form or reasonable facsimile. **COMPUTER DISKS ARE THE PREFERRED METHOD OF ENTRY** — BUT MUST INCLUDE A SUMMARY SHEET.. 100 points will be deducted for each dupe found. A summary sheet can be downloaded from the web site. However, paper logs are also acceptable.

ENTRY DEADLINE: Send Logs by **NOVEMBER 15TH, 2001** to:

PA QSO PARTY 2001
c/o NITTANY ARC
113 LOCUST STREET
PLEASANT GAP, PA 16823.

E-mail logs will no longer be accepted. Please, a DONATION of \$2.00 or more with your entry to help defray the costs of mailing, printing, etc. would be greatly appreciated.
PLEASE NO SASE — they only get lost!

PA QSO PARTY COMPUTER LOGGING PROGRAMS:

K3CP (c/o DLARC, KA3MOU, 120 McIlhane Ave, Bath, Pa. 18014)
E-mail: KA3MOU@enter.net

KM3D (Box 392, Richland, Pa. 17087) Download: <http://users.desuper.net.com/bump/km3d.htm>

KA3JWE (Windows version) Download: <http://www.enter.net/~donster/>

NA - latest version now handles the 1.5 Point QSO's. <http://www.datonline.com/>

WriteLog has template. <http://www.writelog.com>

Log-EQF — (n3eqf@usaor.net) <http://www.eqf-software.com>

PA QSO PARTY WEB SITE: <http://www.qsl.net/narc/paqso.htm> - For latest info!

THE PA QSO PARTY REFLECTOR: To subscribe: send a two word message "subscribe paqso" (no quotes of course) to: majordomo@QTH.net

Check out the latest info on portables, mobiles and activity: Friday night, Oct. 12 - 8:00 PM - Eastern Time, 3910 LSB +/-



WIRELESS ASSOCIATION OF SOUTH HILLS, INC.

Membership Application/Renewal for 2001



I would like to join WASH!. I am interested in the following type of membership: **New Membership** **Membership Renewal**

(check quarter →)
(check one ↓)

1st Qtr **2nd Qtr** **3rd Qtr** **4th Qtr**
Jan-Mar **Apr-Jun** **Jul-Sept** **Oct-Dec**

(F1) Full Membership: \$20.00 \$15.00 \$10.00 \$5.00

(F2) Full Membership < 18 or > 65 yrs of age: \$10.00 \$7.50 \$5.00 \$2.50

(A1) Associate Membership: \$10.00 \$7.50 \$5.00 \$2.50

(FM1) Family Membership (F1 or F2 or A1 dues x 20% x No. of household family members): \$ _____

Name(s): _____

Name: _____ Call Sign: _____

Address: _____ License Class: _____

City, State: _____ Expires On: _____

Home Phone: _____ Work Phone: _____

Email Address: _____ Birthday: _____

New Members Only:

I do NOT want to be added to the Club E-Mail Reflector

I do NOT want to be added to the Electronic Newsletter Mailing List

[If you have an Email address, you Will be added to both lists UNLESS you choose to Opt-Out]

ARRL Member? Yes No Family ARRL Member? Yes No

Date: _____

Amount Enclosed: \$ _____

Signature: _____

Please make your check or money order payable to the club treasurer, Mark Stabryla.
The Wireless Association of South Hills, Inc. reserves the right to accept or reject new memberships or renewals.
Please return completed membership form along with check/money order to the club treasurer or mail to:
Wireless Association of South Hills, Inc.
C/O Mark Stabryla N3RDV, VP/Treasurer
1120 McKnight Drive
Bethel Park, PA 15102-2456

Wireless Association of South Hills, Inc.

Order Form for "The TLC Embroidery Company"

Embroidered Shirts and Hats

Quantity	Item/Description	Size	Color	Unit Cost	Net Cost
Sub-Total					
6 % Sales Tax					
Total Enclosed					

Available	Cost (S M L XL)	Cost (2X 3X 4X)
Golf Shirts	\$20.00	\$22.00
Rugby Shirts	\$20.00	\$20.00
Light Jackets	tba	tba
Lined Jackets	tba	tba
Hats	\$10.00	\$10.00

Club logo is not currently available on the hats due to size limitations. Contact TLC Embroidery for more information.

Prices, availability & available colors subject to change without notice.

Use additional sheet(s) if necessary

Make checks payable to Sharon Cox
Mail to: The TLC Embroidery Company
366 Dry Ridge Road
West Alexander, PA 15376

Phone: 724 - 484 - 7703



The WASHRag

Ron Notarius WN3VAW, Editor
3505 Rosalia Avenue
Castle Shannon, PA 15234-2317

Inside This Issue:

- Still time to join the N3SH Clarion County expedition, or make your own plans to operate in the Pennsylvania QSO Party!
- Who or what is an NVIS?
- What's up with the Christmas Party?
- The FCC on W6NUT/R
- Complete Rules, 2001 Pa QSO Party!

All this and more... waiting for your right inside these pages...



Now This Is How You PAPER LOG...

Larry K3VX and Steve W3SRL operating N3SH/3 from Clarion County in the 2000 Pennsylvania QSO Party.
Will you be QRV during the biggest and best State QSO Party of the Year? If you can't travel to Clarion, operate from home!
Details inside...

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