



WASHRAG™

www.washarc.org



Volume 6 Issue 9

September 2004

N3SH
WA3SH
NP2SH/B
W3S

Wireless Association of South Hills

ISS Success!



Friday morning, August 28th, approximately 9:45 AM, Upper St. Clair High School in the South Hills of Pittsburgh. A small but eager and anxious group of people... students, parents, media, and of course Amateur Radio operators, led by Jim WB4GCS and Kevin N3HKQ gathered in silence, as Jim transmitted into the ether his call and standing by for his schedule. Silence and static greeted him as he called and called both on the primary and secondary frequencies.

And then came the voice from NA1SS, as Astronaut Mike Fincke aboard the International Space Station answered Jim back. For the next nine minutes, the students asked their questions and heard the answers back, the parents beamed, the media recorded or took note, and the amateurs sat back and watched as months of emails and weeks of coordination and hard work all came together without a hitch.

It was an unqualified success for all involved!

Pat Palozzolo ex-KA3WZP, the USC teacher who got the ball rolling, told us afterwards that the USC Administrators were literally "stunned" at how well things went, and USC Principal Dr. Kushner said "it was absolutely BEYOND all expectations!" Pat also indicated that several of the students involved expressed interest in getting their own Amateur tickets in the near future... and once we get some names from her, we will follow up on that!

A big pat on the back and "thank you!!!" goes to everyone who was involved in one degree or another with the effort! Special thanks goes to four WASH & WACOM members who were responsible for going the extra mile in making this operation come off:

- ♦ Jim WB4GCS and Kevin N3HKQ, who provided the equipment, got it set up and tested, and worked out the coordination with NASA;
- ♦ Frank KB3FZU, who helped out tremendously with the media contacts, especially with the WPXI news room;
- ♦ Dan KB3HVN, who designed the shirts and logos for all involved to wear, making the operators look like seasoned professionals and help making the students feel involved!

Media coverage included a webcast on MSNBC.COM that was monitored across the country (Pat heard from people in Nebraska and North Carolina who listened in), a radio interview on KQV AM, and small newscast segments Friday night and Saturday morning on WPXI & KDKA TV. Newspaper coverage included the Pittsburgh Post-Gazette, Pittsburgh Tribune Review, and The Almanac. The TV broadcasts did not mention much about Amateur Radio or the clubs, although the video showed pictures of the WACOM antenna trailer and both club banners. The newspaper articles, as well as the article on the ARRL Web site, did mention both clubs by name.

(ARRL on page 3)

Top of the Hill



August has been quite a month. At our meeting we had an excellent program on Microwaves presented by Jim Sanford, WB4GCS. We all gained lots of food for thought and possible future experimentation.

Especially since the meeting, emails flew back and forth about ARISS and our annual picnic.

The picnic was graciously hosted by Pat and Jim Sanford

and was a great afternoon. Thanks to everyone who contributed to its' success and especially to Carol and Richie Danko who organized the food. We had some fun experimenting with QRP and portable antennas in addition to a virtual smorgasbord of food. Thanks to all again.

The Sunday picnic was only the first event of a very big week. The following Friday WASH participated with WACOM at Upper St Clair High School (AKA the Taj Mahal) in a QSO with the International Space Station during which nine students asked questions of Astronaut Mike Fincke. The USC students and facility were coordinated by Pat Palazzo who was once in the Teacher in Space program with Christa McAuliffe.

The ARISS event was a great success in no small part due to our Jim Sanford and Kevin Smith. Thanks guys for contributing your expertise, equipment and of course time. Well done!

The week ended on a high note with an appearance by Paul Jordan NP2JF who used to be active in our Club before moving to St John with his wife Alyce

(Top of the Hill Continued on page 8)

Inside this issue:

Amateur Radio Calendar	2
WASH Club News	3
Meeting Minutes	4
ARRL Photos	5
Picnic Photos	6
WPXI Tour Photos	7
DX News Briefs	8
Hamfest Announcements	10

Next Meeting: September 9th, 2004

The next monthly meeting of the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** will be Thursday, September 9th, at the **Peters Township Library**, 616 East McMurray Road, McMurray, starting at 7:00 PM.

Our October operations in the Pa QSO Party and JOTA will be among the many items to be discussed.

Talk-in on the 146.955(-) N3RNX/R and 443.650(+) N3BV/R Repeaters (131.8 PL). All members, guests and interested parties invited!

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

NCS Schedule
Listed On Page 3

Want to volunteer to be
a Net Control Station?
Please contact FM Net
Manager Kevin N3HKQ
for more information.

**LOOKING
AHEAD:**

- California QSO Party Oct. 2nd & 3rd
- WACOM Hamfest October 3rd
- Pennsylvania QSO Party Oct. 9th & 10th
- Jamboree On The Air October 16th

September 2004						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 Uniontown ARC Meeting Steel City ARC Social Night Allegheny Co SKYWarn Net Allegheny Co ARES Net Westmoreland Co ARES Net	2 WACOM Meeting RA Erie Meeting Uniontown ARC Net	3 Elco ARS Meeting	4 Uniontown ARC Gabfest RA Erie VE Test WPA Hilltoppers VE Test Somerset Co ARC Breakfast North Hills ARC Elmer Net
5 Ellwood City ARA Meeting QCWA Pittsburgh Net North Hills ARC Teen Net Somerset Co ARC Net WASH FM Net	6 Breezeshooters Net 2 Rivers ARC Net Triple 'A' ARC Net Beaver Co Public Service Net	7 Butler Co ARA Mtng Skyview RS Meeting WACOM Net North Hills ARC Net SATERN Net GPVHFS Swap m' Shop Net	8 North Hills ARC Meeting Butler Co PSG Meeting Laurel Highlands VHFS Mtng Steel City ARC Social Night Allegheny Co ARES Net Westmoreland Co ARES Net	9 WASH Meeting Horseshoe ARC Meeting Beaver Valley ARA Meeting Uniontown ARC Net	10	11 K4AF Special Event Nittany ARC Coffee Call 2 Rivers ARC Breakfast North Hills ARC Breakfast Foothills ARC Breakfast Quad Co ARC Breakfast North Hills ARC Elmer Net
Butler Hamfest & WPA Section Convention OCWA Pittsburgh Net North Hills ARC Teen Net Somerset Co ARC Net WASH FM Net	13 Bum of the Month Lunch ARL Lawrence Co Meeting Steel City ARC VE Test Breezeshooters Net 2 Rivers ARC Net Triple 'A' ARC Net Beaver Co Public Service Net	14 Foothills ARC Meeting Coke Center ARC Meeting Ft Venango M&K Meeting Nittany ARC Meeting Punxsatawney Area ARC Mtng WACOM Net North Hills ARC Net SATERN Net	15 SATERN VE Test Steel City ARC Social Night Huntington Co ARC Meeting Allegheny Co SKYWarn Net Allegheny Co ARES Net Westmoreland Co ARES Net	16 Triple 'A' ARA Meeting Somerset Co ARC Meeting Greene Co ARC Meeting Uniontown ARC Net	17 Quad Co ARC Meeting	18 2 Rivers ARC VE Test Horseshoe ARC VE Test North Hills ARC Elmer Net
19 Somerset Co ARC Hamfest Elk Co ARC Meeting WPRC Meeting (Altoona) OCWA Pittsburgh Net North Hills ARC Teen Net Somerset Co ARC Net WASH FM Net	20 Steel City ARC VE Test Monessen ARC Meeting Breezeshooters Net 2 Rivers ARC Net Triple 'A' ARC Net Beaver Co Public Service Net	21 Steel City ARC Meeting S H B P & M Meeting 2 Rivers ARC Meeting Tri-County CW ARC Meeting Junia Valley ARC Meeting Pymatuning ARC Meeting Junia Valley ARC Meeting Chestnut Ridge ARC Meeting	22 North Hills ARC Activity Night Ft. Armstrong WA Meeting Allegheny Co ARES Net Westmoreland Co ARES Net	23 Uniontown ARC Net	24	25 WASH Breakfast Nittany ARC Coffee Call North Hills ARC Elmer Net
26 OCWA Pittsburgh Net North Hills ARC Teen Net Somerset Co ARC Net WASH FM Net	27 Breezeshooters Net 2 Rivers ARC Net Triple 'A' ARC Net Beaver Co Public Service Net	28 Mercer Co ARA Meeting WACOM Net North Hills ARC Net SATERN Net GPVHFS Swap m' Shop Net	29 Steel City ARC Social Night Allegheny Co ARES Net Westmoreland Co ARES Net	30 WACOM Board of Directors Meeting Uniontown ARC Net	10/1 Elco ARS Meeting	10/2 CA QSO Party RA Erie VE Test Beaver Valley ARA VE Test Somerset Co ARC Breakfast North Hills ARC Elmer Net

WASH 2004 OFFICERS

EXECUTIVE COMMITTEE:

President William R. Hill W3WH
VP / Secretary Frank Bobro KB3FZU
VP / Treasurer Mark Stabryla N3RDV

AND WE COULDN'T DO IT WITHOUT:

N3SH / WA3SH Trustee Steve Lane W3SRL
NP2SH Trustee Paul Jordan NP2JF
N3SH / WA3SH QSL Manager Paul Lusardi NØVLR
NP2SH QSL Manager Ed Oelschlager N3ZNI
VE Team Liaison Jacqué Gosselin N3ZEL
Webmaster Bob Sanford AA3FI
Quartermaster Harold Rosenberger KB3CPI
WASH FM Net Manager Kevin Smith N3HKQ
WASHFest 2004 Committee Steve Lane W3SRL, Chairman
Carol Danko KB3GMN
Bill Hill W3WH
Kevin Smith N3HKQ
Larry Comden K3VX
Ted Huf W4ZE
Activities & Operating Events Carol Danko KB3GMN
Kevin DeRose N3KFD
Ben Williams KB3ERQ
Ways & Means Carol Danko KB3GMN
Media Communications Kevin DeRose N3KFD
Allegheny Co ARES Representative Ben Williams KB3ERQ

CLUB-AFFILIATED REPEATERS & BEACONS:

Mt. Lebanon	N3RNX/R	146.955 MHz (-)	PL 131.8
Mt. Lebanon	W3SRL/R	442.550 MHz (+)	PL 131.8
		Echo Link #26861 (courtesy W3SRL)	
Canonsburg	N3BV/R	443.650 MHz (+)	PL 131.8
St. Johns, VI	NP2SH/B	28.276 MHz	

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 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 2004 by the WIRELESS ASSOCIATION OF SOUTH HILLS, INC.

Editor & Publisher: Ron Notarius WN3VAW

Permission is granted to other Amateur Radio publications to reprint articles in this issue, provided the original author and "The WASHRag™" are given credit. Comments, articles, and requests for copies of or information about "The WASHRag™" should be mailed to the editor:

Ron Notarius WN3VAW
946 Sleepy Hollow Road
Castle Shannon, PA 15234-2222

e-mail: wn3vaw@njdxa.org or wn3vaw@yahoo.com

"The WASHRag", "The Mariner", SHARCfest, South Hills Hamfest, WASHfest, WASHfest 2004, N3SH Net, WA3SH Net and WASHNet are ™ trademarks of the WIRELESS ASSOCIATION OF SOUTH HILLS, INC.

The WIRELESS ASSOCIATION OF SOUTH HILLS, INC. was founded on August 23rd, 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, it's members, or it's 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 it's members to use their repeaters for club purposes. Special thanks also to our webmaster, Bob Sanford AA3FI, and to Shawn Djernes NØPEU for providing space on-line for back issues of "The WASHRag™" which can be found at www.washarc.org or www.djernes.org/washrag

WASH Amateur Radio Club News Briefs

Next WASH VE Test October 21st!

The Next WASH VE exam sessions will be **Thursday, October 21st, 2004, 6:30 PM**, at the **Peters Township Library**, 616 East McMurray Road, McMurray, PA. Talk-in on the 146.955 MHz and 443.650 MHz repeaters. 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 **\$12.00** (payable to: ARRL VEC)

Future test dates: Thursday, January 13th, 2005
 (tentative) Thursday, April 21st, 2005
 Thursday, July 21st, 2005
 Thursday, October 20th, 2005

August 28th brought us together at the **Your Way Café** at Caste Village for the monthly meeting of the **WASH Breakfast Gang**. Attending this month were W4ZE, K3VX, W3SRL, N3RNX, W3WH & Linda Hill, NØPEU, WN3VAW NP2JF, N3ZEL, N3ZNI, and KB3HVN. In addition to bidding adieu to Shawn (see below) and welcoming Paul back for a brief visit north, subjects included changes in the beacon, hurricane preparations ("just throw it all in the pool!"), contest & DXpedition QSL'ing via the bureau, maintaining rental property in paradise, Buddi poles, EchoLink, finding a Suburban, cats, dogs, and brake conversions on Willy's Jeeps.

The next Club Breakfast will be at **The Starting Line Café** on Route 19 near Race Track Road, north of Washington, on September 25th, and then returning to the **Your Way Café** in the Caste Village Shops, Grove & Baptist Roads, Whitehall, on October 30th. See you there!

Goodbye Shawn. Just before August ended, Shawn NØPEU surprised everyone with the news that he had just gotten a job working for the State of Nebraska, and would be leaving Pittsburgh by September 7th. Timing of both the announcement and the news was such that we were unable to give Shawn a proper goodbye & thanks for all of his efforts on behalf of **WASH** at the next club meeting. So, Bill W3WH arranged for Shawn to receive at the August Club Breakfast both a Certificate of Thanks & Appreciation, and a lined embroidered Club Jacket from OGS courtesy of Dan KB3HVN.



Good luck in your new position Shawn! And remember, we expect to work YOU for our NE multiplier in the PA QSO Party, for years to come!

The 2004 Pennsylvania QSO Party is now only about over six weeks away? It's true! So don't put it off any longer! Now is the time to make plans and preparations — to run your station from home, run mobile, set up a portable station in a remote county, or join one of the club efforts. At last report, we tentatively knew of the following plans:

- ◆ **N3SH** will be operating from Greene County under the direction of K3VX and W3WH, from the same site they used in the Mid-Atlantic QSO Party in **Ryerson Station State Park**.
- ◆ **WA3SH** will again be QRV from the **Heritage Reservation BSA** facility in Fayette County, under the auspices of KB3IAC & KB3FZU, with our thanks again to Greater Pittsburgh Council BSA & N2PRV.
- ◆ **W3KWH** will be making Allegheny County QRV from the Steel City ARC QTH in Collier Township. Bob W3RJM has helped lead the effort in years past, but we don't know if he is doing so this year.
- ◆ **WA3COM** will (tentatively) be operated by WACOM from Washington County. Further details not currently available.

More information about is coming out on the PA QSO Party Reflector And as we get closer to mid-October, we should be hearing more about what individual and club stations will be QRV for this year's event.

Team N3SH & Team WA3SH need operators! It's a heck of a lot of fun, a great way to pick up operating skills, and it helps maintain the club as one of the "elite" operating groups in the contest! (Yes, we have some more counties to win and clean sweeps to get!) Interested? Let's talk about it at the meeting! (Don't worry about experience, there's no better way to get it!). By the way... anyone planning to visit NP2JF & activate **NP2SH**?

W3S JOTA Update: Nothing new has been reported since last newsletter. Hope to have some more news at the September meeting! Remember, if you can come down and help operate, let Rick KB3IAC know so that he has an idea of how much help he'll have on hand!

Ailing: We learned on the Sunday net that Hank KB3FNM is home & recuperating. Give him a call and give him a boost!

Rich Armstrong N3SRC of South Park, an off & on member of the club for the past few years, has been very ill of late. If you're a friend of Rich's, drop him a note and let him know you're thinking of him!



Above: Bill W3WH & Shawn NØPEU posing with Shawn's certificate outside of the **Your Way Café**. Left: Shawn wearing his new jacket... and the outside temperature was about 75° in the parking lot at the time!

Photos courtesy of & ©Copyright 2004 Jacqué Gosselin N3ZEL

(ARRIS Continued from page 1)

You can read some of the news articles on-line, as well as listen to the 9 minute audio of the contact; links are located in with the pictures over on Page 5.

A great way to start off the fall! Again, Congratulations to all involved for a job very, very well done!

WASHNet NCS Schedule:

- | | |
|---------------------------------------|---------------------------------------|
| 09/05 - Hank KB3FNM | 11/07 - Paul NØVLR |
| 09/12 - Carol KB3GMN
or Rich N3SBF | 11/14 - Carol KB3GMN
or Rich N3SBF |
| 09/19 - Steve W3SRL | 11/21 - Steve W3SRL |
| 09/26 - Kevin N3HKQ | 11/28 - Kevin N3HKQ |
| 10/03 - Harold KB3CPI | 12/05 - Hank KB3FNM |
| 10/10 - Bill W3WH | 12/12 - Harold KB3CPI |
| 10/17 - Bell Family | 12/19 - Bill W3WH |
| 10/24 - Michael KB3HFP | 12/26 - Bell Family |
| 10/31 - Frank KB3FZU | 01/02 - Michael KB3HFP |
| | 01/09 - Frank KB3FZU |

Recent e-mail messages purporting to be from "noreply@arrl.net," the "ARRL.net Support Team" or some similar variation are **not** from the ARRL. These messages are the result of a recent variant of a virus permeating the Internet. ARRL has heard from members who have received e-mails alleging that their ARRL E-Mail Forwarding Service (@arrl.net) address has been used to send out spam and urging them to open an attachment to help resolve the situation. Opening the attachment will infect the recipient's computer. Outside of routine correspondence, the ARRL only sends e-mail to members who request mailings, such as W1AW bulletins and The ARRL Letter, and none of these are sent via the ARRL E-Mail Forwarding Service.

Minutes, August 12th Meeting

Frank Bobro KB3FZU, VP/ Secretary, **WASH**

Bill, W3WH, **called** the meeting **to order** at 19:02 hours. There were 22 members and guests in attendance.

A **moment of silence** was observed for recent silent keys and other deserving persons.

A motion was made to **accept the minutes** of the July meeting as published in the July newsletter. The motion was made by Pete, N3RNX, seconded by Larry, K3VX. The motion was voted on and passed.

Committee reports:

Treasurer (N3RDV): No report.

Secretary (KB3FZU): Tour of WPXI is available on Saturday, August 28th at 11:00 AM.

VE Report (N3ZEL): The last VE session went great! Several people showed up and everyone left happy.

Repeaters (N3RNX & W3SRL): Pete, N3RNX, says the repeaters are repeating. Steve, W3SRL, says Echo Link is still down.

FM Net Report (N3HKQ): Kevin, N3HKQ, reports that the schedule is set through January.

Ways & Means (KB3GMN): No Report.

Public Service (N3RDV): No Report.

Contests (W4ZE): No big contests are coming up. The RTTY contest on is on August 21st and 22nd. This is the 50th anniversary of the Worked All Europe contest. If you work 100 contacts and submit a log, you can be entered to win a Ten-Tec radio.

Activities (K3VX): The PA QSO Party is approaching. Operators are needed for both the Greene County and the Fayette County sites. Bill would like to run a QRP station from Greene County.

Newsletter (WN3VAW): No Report.

President's Report (W3WH): Bill, W3WH, will not be able to make the next meeting. Sunday, August 22nd is the picnic at Jim, WB4GCS's place. Directions will be on the reflector.

Regarding the ARISS - NASA has still not released the official date. Our first choice is August 23rd at 10:56 AM for the contact, the second would be Friday, August 27th at 9:35 AM AM and third choice is Wednesday, August 25th at 10:14. Upper St. Clair High School will be the place for the contact.

Rick Bell is the chairman of the JOTA effort. He passed out a press release for the club's review. The facility will be Flag Plaza on Bedford Ave. near the Civic Arena. That day the scouts can earn a radio merit badge. The idea of JOTA is for scouts around the world to make contact with other scouts through amateur radio. We will need equipment, control operators, and instructors. We have reserved the Heritage Center for the PA QSO Party and the scouts are willing to do a joint operation at next year's Field Day.

Regarding Morse code classes, Carol, KB3GMN, has secured the Steel City Clubhouse to do a weekly class. That will begin in September.

Dan, KB3HVN, will report on the 2004 Santa Net at the next meeting.

The USS Requin tour is available. They can only accommodate 4 people in the radio room. We will organize the tour at the next meeting.

Old Business: No Report.

New Business: The WACOM Hamfest is scheduled for October 3rd.

Good of the Order: No Report.

Motion to Adjourn: Made by Dave, N3IDH, and seconded by Ed, N3ZNI. The motion was voted on and passed. The meeting was adjourned at 19:43. Jim, WB4GCS, gave a presentation on microwave transmission.

K4AF Special Event Station

The Pentagon ARC will be operating special event station K4AF on September 11th to commemorate the attacks on the Pentagon, the World Trade Center, and over Pennsylvania in 2001. The club intends a 24 hour operation on 20, 40 and 80 meters, and a special QSL card will be available.

More information on the operation can be found at the club web site at www.k4af.org

WASH Spotlight

"I had Lori take this on my front porch after I got all of the steel back from the re-galvanizing plant. You are looking at two 48' self supporting BX



Ham towers (and KB3FZU, of course).

Now... what should I do with all of this shiny steel?"

Photo courtesy of and ©Copyright 2004 Frank Bobro KB3FZU

Every month we're going to feature a **WASH** club member, something about them, something they're involved in or a club-related activity that we're involved in, in the **WASH Spotlight**. Submissions for the Spotlight should be sent to Ron WN3VAW at wn3vaw@njdxa.org

Monthly WASH Breakfast

Saturday, September 25th & October 30th

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

We alternate our breakfast locations every month to make it easier for club members to get to at least one of them:

Join us in July at **The Starting Line Café** on Route 19 near Race Track Road, north of Washington, and in August at the **Your Way Café**, Caste Village Shops, Baptist & Grove Roads, Whitehall. Start time is about 8 AM until ????. 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	KB3GMO	KE7FD	N3SBF	W3HND	Barbara Mistic David Delmonico
AA3JS	KB3GMP	KE8RN	N3SRC	W3JAF	
AB3AB	KB3GMU	KQ3DX	N3TBK	W3RJM	Silent Keys K3EED KB3ENX KB3FQT N3KEH N3OBD N3SKR W3ZLK
K3BZW	KB3GZG	NØPEU	N3UE	W3RWS	
K3JDS	KB3GUZ	NØVLR	N3UIW	W3SRL	
K3LGM	KB3HFP	NØWPV	N3VEH	W3VE	
K3OL	KB3HVN	N2QIV	N3WPT	W3VFA	
K3PCF	KB3IAC	N3AWF	N3XFE	W3WH	
K3VX	KB3ICC	N3BSQ	N3XI	W4ZE	
K3WR	KB3IJC	N3CZZ	N3YPB	W8LEV	
K9LZ	KB3IRQ	N3FZ	N3YQY	WA3JPP	
KA3PPH	KB3IVW	N3HKQ	N3ZCG	WA3RVD	
KA3TFB	KB3IVX	N3IDH	N3ZEG	WB3BPH	
KA3UPY	KB3KOT	N3INT	N3ZEH	WB4GCS	
KA3WZO	KB3QX	N3KFD	N3ZEL	WB3GTL	
KA3YTS	KC2JJB	N3PN	N3ZNI	WN3BOJ	
KB3ANH	KC4WTT	N3QMV	N4MIS	WN3VAW	
KB3ANH	KC6VLV	N3RDV	NP2JF	WO3Z	
KB3DCO	KD3JV	N3RHT	N8DPW		
KB3EPI	KE3XB	N3RNX	W3GEL		
KB3ERQ					
KB3FNM					
KB3FZU					
KB3GMN					

Color Codes:
2004 Member
2003 Member
2002 Member
2001 Member
(2000 and earlier members no longer displayed)

Through July 14th, 2004

List compiled by

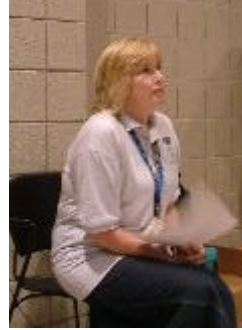
Mark Stabryla N3RDV, Vice President/Treasurer

A Beautiful Morning to Talk To Space!

Photos courtesy of & ©2004 Kevin Smith N3HKQ

Life in Space Fun, Challenging, Astronaut Tells Pennsylvania Students

ARRL Web Extra courtesy of the American Radio Relay League



NEWINGTON, CT, Sep 3, 2004 — NASA International Space Station Science Officer Mike Fincke, KE5AIT, told students at Upper St Clair High School August 27 that life in space is both fun and, at times, challenging. The Amateur Radio on the International Space Station (ARISS) school group contact between NA1SS in space and WB4GCS in Western Pennsylvania represented a homecoming of sorts for Fincke, who was born in Pittsburgh and whose parents live in Emsworth, where he grew up. Fincke said problems with an onboard gyroscope system that occurred just as the Expedition 9 crew arrived aboard the ISS presented the most unexpected challenge of his six-month tour of duty.

"Our biggest challenge was to get some spacesuits and get outside and fix it, and it turned out that the American spacesuits were broken, and we had to go to our backup plan with the Russian spacesuits," Fincke recounted. "That took a lot of work. That was a big challenge, but we were successful on the Fourth of July weekend, and we fixed that gyroscope's power source." The challenge aside, Finck said, the experience was "really exhilarating."

While he's missed his wife and children while in space since April, Fincke said he's also enjoying his time aboard the ISS, although he noted, "it's really tough to live with the same person for six months," a reference to Expedition 9 Commander Gennady Padalka, RN3DT.

"We have to work really well together, and I think one of the secrets is that we don't look for fault in each other," Fincke said.

"The most fun I've ever had in space has been every day since I got here," he said in reply to another youngster's question. "I've been waiting my whole life, and every day aboard the space station has been a *great* day. There's always something new, something new to learn, something new to see."

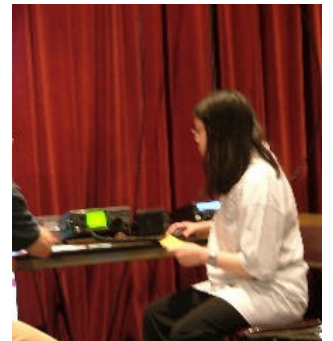
Fincke said the ISS doesn't cost much in the greater scheme of things, and he believes the space station's overwhelming value is as a stepping stone to populating other parts of the universe. "In order to protect the survival of the species, it's better not to have all our eggs in one basket and have humans populate the solar system," Fincke reasoned. "That way, one disaster shouldn't wipe us out."

He also said he'd like to see the human space flight program focus on again landing on the moon, journeying to Mars and eventually to the stars. "We need to explore who we are and our potential as human beings."

Fincke also philosophized in response to a question about the perspective he's gained from living in space. "Every piece of history, everything we've ever talked about, every poem that was ever created, every heart that was broken, every joy that was felt is just on that ball of rock that's below us right now, and that really puts things into perspective."

The Expedition 9 crew is scheduled to return to Earth in about six weeks.

Mentoring the ARISS contact was Howard Ziserman, WA3GOV. Jim Sanford, WB4GCS, served as the control operator. Setting up the Earth station for the contact were the [WIRELESS ASSOCIATION OF SOUTH HILLS](#) (WASH) and Washington Amateur Communications (WACOM), with assistance from local AMSAT members.



WASH Picnic at The Sanfords! Photos this page courtesy of & ©2004 Pete Cole N3RNX



More Picnic! Photos this page courtesy of & ©2004 Kevin Smith N3HKQ



WPXI Tour! Photos this page courtesy of & ©2004 Jacqué Gosselin N3ZEL



Thanks to Frank KB3FZU for arranging a tour of the Channel 11 studio and transmitter site on August 28th. As you can see, the group had a great time... maybe a little too great? (Can't be the breakfast orange juice was a little off, was it guys? Hmmm?)



The new noon anchors on WPXI Channel 11 practicing their craft?

(Top of the Hill Continued from page 1)

five years ago and a tour of WPXI TV hosted by Frank Bobro, KB3FZU who is Engineering Manager for the station. I for one never really appreciated the complexity of a television station. All those who attended enjoyed themselves immensely. Thank you Frank!

We're not finished yet. Remember that we have the opportunity to attend code classes hosted by Steel City Amateur Radio Club beginning Sept. 13th. Check with Carol KB3GMN for details. We also have an invitation to tour the submarine USS Requin at the Carnegie Science Center. Richie Danko, N3SBF can make the arrangements for those who are interested. Of course coming up in October we have the Pa QSO Party on the 9th & 10th and the Boy Scout JOTA on the 16th.

Nobody can accuse our Club of not being active! I think it's wonderful! Let's keep it going folks!

— 73, Bill Hill W3WH, President
Wireless Association of South Hills, Inc.
N3SH / WA3SH / NP2SH/B

BTW: Elections will be upon us before you know it! I believe that my term as well as Frank Bobro's term as V P/Secretary runs out this year.

Back Issues of the *WASHRag* can be found
on the web at

www.djernes.org/washrag

The site will be unavailable for a few weeks
while the server is being moved to the
Midwest, but it will return soon!

Thanks *NØPEU* for providing the site!

To all those who are interested, there will be a code class taught at the *Steel City Amateur Radio Club W3KWH* beginning September 13th. It will start at 7 PM. It will last 1 hour & 30 minutes. You will need paper, pencil and a tape recorder. All those interested can let us know ASAP so we can have this info for there next SCARC meeting. You can let us know by email.

— Carol Danko KB3GMN & Rich Danko N3SBF
n3sbf@libcom.com

The *W3KWH* club house is located at 208 McMichael Road in Collier Township, less than a mile from Settler's Cabin Park & the Parkway West at the Cambell's Run Road exit. Talk-in on 147.03+ MHz, 123.0 PL



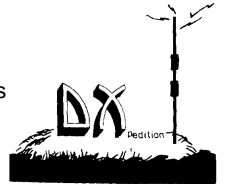
Just when you never believe it's going to happen... after being together for over 16 years, on August 21st, Dan KA3UTS & Cindy KA3YBN FINALLY tied the knot!

Both are graduates of the old CCAC Novice classes taught in the late 1980's & early 1990's by WN3VAW & N3BPB, as are many other club members!

Congratulations! (And it's about bloody time, too!)

Photo courtesy of and
©Copyright 2004 Bill Kristoff
N3BPB.

DX News Briefs



The 52nd **W9DXCC DX Convention and Banquet** takes place Saturday, September 18, at a new location — the Holiday Inn Chicago in Elk Grove, Illinois. (A welcome reception and a hospitality suite will get under way Friday, September 17, at 7:30 PM.) Early registration prices remain in effect through Friday, September 10. Speaking at the Saturday evening banquet will be noted DXer and author John Devoldere, ON4UN, who will also present a low-band forum during the convention with John Battin, K9DX, and Jerry Rosalius, WB9Z. Other programs include "5U5Z African Adventure," by Lee Finkel, KY7M; "3B9C Rodrigues Island," by Eric Scaze, K3NA; "Propagation and Cycle 23," by Carl Luetzelschwab, K9LA; "IOTA Update," by Mike McGirr, K8AJ, Jim Model, K9PPY, and Gordon Bazsali, WB9EEE; a presentation on the Fort Bragg antenna installation by Jay Terleski, WX0B, of Array Solutions; "YASME — Danny Weil and the Colvins," by Jim K1TN, and an overview of the Ten-Tec Orion transceiver by Scott Robbins, W4PA. ARRL DXCC card checking will be available. For more information, visit the W9DXCC web site at <http://www.qth.com/w9dxcc>

"Effective immediately, the ARRL DXCC Branch will accept QSLs for operations taking place in the Somaliland (NW Somalia) and Puntland (NE Somalia) autonomous areas as well as the southern and central areas of **Somalia (60 / T5)**. Operations possessing written permission from any recognized authority that is acknowledged to be in control of a particular region will be accredited. These QSLs will count for the Somali Democratic Republic (Somalia). QSLs for past operations will be accepted where proper documentation has been submitted. This is subject to change based on future developments in Somalia." — NC1L, ARRL DXCC Manager

"My good friend Solofo, 5R8ET tells me that the **K1WY DXA** club is closed. Bill, K1WY, has not informed the members about his decision. All Solofo's messages sent to him by e-mail this year, have received no reply. The K1WY DXA website is also closed." — G3SWH

W5BOS will be QRV as **V6O** from Pulap (Pollap) Island (OC155) October 18th — 23rd. QSL via N6AWD — W5BOS

WC4H has taken over the QSL Manager duties for **3E1DX** from NØJT as of July 2003. John gave up the task due to poor health. He no longer has any cards or logs for this station. — NØJT

The Metro DX Club's Team Bonaire 2004 will be operating September 22—29, 80—10 meters, primarily SSB, CW & RTTY. **PJ4/W9ILY** will be QRV in the CQ WW RTTY contest, QSL via home call. QSL **PJ4/K9MDO** via W9NJB direct, via home call (buro); **PJ4/N2WB** via N2OO. More info available at <http://n2wb.tripod.com> — **N2WB**

HP1/DJ7AA is not currently valid for DXCC due to concerns about licensing (following complaints from HP amateurs concerning the lack of a license) and lack of documentation submitted to the ARRL DX CC desk — K4MQG

QSL Routes

3E1DX via WC4H — NØJT
5U7B via I2YSB — W4YCH
5W1SA via JH7OHF — W9OL
5WØKE via DL2MDZ — K1NU
5Z4DZ via PC1A — JJ1BDX/3
6Y8Z via WO9Z — KS4YT
7P8AA via DL7UBA — K8SIX
7P8DA via K4YL — N4UOZ
7Q7MM via G3LQP — W4YCH
8J1RL via JARL — JJ1BDX/3
9M6AAC via N2OO — KF3AA
9XØA via DL5WM — EU1SA
9Y4/DL7DF via DL7UFN — W9OL
A71EM via EA7FTR — K7ZD
CQØT via CT11LT — W9OL
CS6T via CT11LT — W9OL
EL2WW via ON5NT — K1NU
EY8MM via K1BV — AA6YQ
FK8GX via W3HNK — JJ1BDX/3
FS5UQ via W3HNK — KS4YT
HI8/JA6WFM via JA6VU — W9OL
HS72B via E2ØNTS — WØBV
HVØA via IKØFVC — W9OL
LU4DX via EA5KB — KC2IXE
NA1SS via ARRL — KS4YT
OC3I via OA4DJW — W3AWU
OY3QN via OZ1ACB — JJ1BDX/3
R1FJ via DL6ZFG — W3QY
S9SS via N4JR — KC2IXE
T33C via F5CWU — W9IXX
UAØIA via DF1MM — RW3RN
UT7QF via UA9AB — KC2IXE
V31AD via N5DD — VA7EWK
V47SS via DL2MDZ — K1NU
V63MB via UA4WHX — K7ZD
V6O via N6AWD — W5BOS
VK9XAB via G3AB — JJ1BDX/3
XU7POS via ON4AJV — W9OL
YMØKA via TA2DS — W3AWU
YS1MAE via W3HNK — K5WW
ZK2VB via UA4WHX — K7ZD
ZL7II via DL5EBE — W4YCH

Thanks to the NJDXA *DX News* & *DX Chat* Reflectors, the *DX-QSL* Reflector, *425 DX News*, *OPDX News*, *Diamond DX Club News*, *ICPO Bulletin*, & *ARRL DX Bulletin* for our *DX News* information. Thanks also to Bill Moore NC1L / ARRL DXCC Desk, & Bernie McClenny W3UR / *The Daily DX* for confirmations & additional information.



WASH Classifieds

Information shown here is as supplied to the **WASHRag**. Condition as stated, and all sales should be considered "as-is" unless otherwise noted. All subject to prior sale or withdrawal from sale at the owner's discretion. All responsibility for this information lies with the source and not the **WASHRag** or the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.**

HAM RADIO INSURANCE ASSOCIATES, INC.
 P.O. Box 201
 Canonsburg, PA 15317-0201
 Toll-Free 1-800-545-8881



Fax: (412) 746-5944
gallina@usaor.net

"All-Risk" Amateur Radio Equipment Insurance Plan for:
 Radio Equipment Computer Equipment
 Antennas Rotors & Towers Computer Media & Software
 Cellular Telephones
 Mechanical Breakdown & Electrical Damage Coverage

DeRose Marketing International

"Healthy Living Technologies"
 Featuring *Living Air*, *Living Water*, & the soon to be released *WindTree*. Suffering from Allergies, Asthma, Headaches, Pet Odors, Smoke, or Bad Tasting Tap Water? Call for a FREE in-home demo and 3-day trial of *Living Air* and *Living Water*.
 Kevin F. DeRose N3KFD
 1-866-754-1331 Toll Free Overview
 1-724-348-6892 Office

kfderose@ecoquestintl.com
www.ecoquestintl.com/kfderose



OGS Distributing — Embroidered

Apparel, Printed Apparel, Dash Plaques, Award Plaques, Vinyl Graphics, Cyclo Polisher, Car Detailing Supplies. Dan KB3HVN, 6571 Zupancic Drive, Pittsburgh PA 15236, Phone (412) 655-8787, Fax (503) 218-1441, or visit the on-line catalog at <http://www.onlygoodstuff.com>



WANTED: ICOM Wall Adapter ("Wall Wart") for a BC-110A. Mel WA3RVD (412) 278-0305 MelRuble@libcom.com

FOR SALE: 2000 Chev Cavalier, Excellent Shape. Details can be found at <https://home.comcast.net/~annettelusardi/> Paul NØVLR

Read about the WASH / WACOM ARISS QSO At:

- <http://www.pittsburghpostgazette.com/pg/04241/369239.stm>
- http://www.thealmanac.net/Main_news.html
- <http://www.amsat.org/amsat/ariss/news/arissnews.txt>
- <http://www.arrl.org/news/stories/2004/09/03/1/?nc=1>
- <http://www.wpxi.com/education/3687740/detail.html>



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 and FTP access. 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.

FYI Networks now also provides sDSL service in selected areas. **WASH** Members can get DSL for the discounted rate of only \$47.50/month. A pre-qualification must be done to see if your address is in the DSL coverage area. Call John Vasicek at 412-488-7800 for more information about FYI sDSL services & benefits.

Many thanks to FYI Networks for making these special offers available to us!

FCC News

ARRL Web Extra & ARRL Letter, courtesy American Radio Relay League

Newington, CT, August 31st, 2004 — While the ARRL has accused the FCC of sweeping under the rug several Amateur Radio complaints of interference from unlicensed broadband over power line (BPL) devices, the Commission apparently is not ignoring other Part 15-related interference complaints from hams. With the assistance of the ARRL Laboratory, the FCC continues to dog complaints--some now longstanding--of power-line noise interference to Amateur Radio communication. Other cases of Part 15 device interference to radio amateurs have been a bit more exotic. For example, two recent citations issued by the Portland, Oregon, FCC field office involved interference from wireless microphones operating in the 70-cm band.



"The agent measured the field strength at 1500 uV/meter at a distance of 3 meters from the referenced wireless microphones and determined that the microphones were in noncompliance with §15.209 of the Commission's rules, which apply to intentional radiators," the FCC said.

Daniel Bathurst, WA7ABU, of Salem, Oregon, filed the complaint. In citations this month to FLECO Corp of Chino, California, and The Club Works Sound and Lighting of Salem, the Commission alleged that the devices, which operate on 432.55 and 439.55 MHz, also were not certificated for sale in the US. The FCC citation indicated that FLECO had sold the microphones to The Club Works.

Earlier this year, the FCC fined Best Wok, a Westville, New Jersey, restaurant \$10,000 for operating transmitting equipment on 2 meters without a license. The eatery allegedly was using a so-called "long-range cordless telephone" to communicate with its delivery vehicle. The FCC noted that the telephone, said to have been obtained outside the US, also was not FCC certificated. It operated within the 2-meter satellite subband at 145.8376 MHz, the FCC said.

Other recent cases have stemmed from radio amateurs' complaints about their neighbors' Part 15 devices. In a Texas case that FCC Special Counsel for Enforcement Riley Hollingsworth described as "an unfortunate neighborhood situation," the neighbor allegedly not only failed to respond to two previous FCC letters but tossed out the toroid core devices the amateur, William Cooper, W5ZAF, had provided free and which, the FCC said, had resolved the interference. Ironically, Cooper—who's active in emergency communications--and his unnamed neighbor live in the town of Friendswood.

Hollingsworth told the neighbor that under Part 15, operation of a consumer product "such as a battery charger" must not result in harmful interference to a licensed radio service. Hollingsworth emphasized that it's the neighbor's responsibility to correct the interference--whether or not the neighbor accepts Cooper's help.

In a similar case in Colorado, Hollingsworth on August 10 wrote another amateur's neighbor regarding interference from an electric fence charger to the Amateur Radio and broadcast television reception of P. E. Muetz, KOAWS.

"Operation of a consumer device such as your fence charger under Part 15 of the Commission's rules must not result in harmful interference to a licensed radio service, and Part 15 of our rules clearly explains that," said Hollingsworth, who'd also spoken with the neighbor by telephone last April. In another coincidental quirk, the neighbor in the fence charger situation lives on "Friendship Ranch."

In a seeming turnabout-is-fair-play situation, the FCC contacted a Mattawan, Michigan, resident to follow up on complaints that the individual's TV set was causing harmful interference to the Amateur Radio operations of Robert Lawson, KG8QD. Sharon Bowers, deputy chief of the FCC's Consumer Inquiries and Complaint Division, noted that Part 15 obliges the TV set's owner to resolve the interference promptly. Under Part 15, a TV set or a computer monitor is considered an "unintentional radiator."

In July, the FCC contacted Illinois Power Company to report receiving complaints that the utility's equipment may be causing harmful interference to the amateur operations of Earl Shaffer, WB9UWA, of Normal.

"The complainant has attempted unsuccessfully to work through your usual complaint resolution process, and, as a result, the matter has been referred to our office," Bowers said in a form letter to the utility's CEO. In both cases she handled, Bowers provided the address, telephone number and email address of the ARRL's Radio Frequency Interference Desk as a source of "help and guidance about radio interference that involves Amateur Radio operators."

27th Annual Butler Co ARA Hamfest

4th Annual WPA ARRL Section Convention

Sponsored by the Butler County Amateur Radio Association, Inc.

Sunday, September 12th 8:00 AM to 3:00 PM

Butler Farm Show Grounds at Roe Airport, State Route 68, Butler PA

Talk-in on W3UDX/3 147.39 MHz

\$5 Donation for Admission (Children Under 12 Admitted Free!) — Free Parking!

Outdoor Flea Market \$5 per Vehicle/Set-Up — Indoor Flea Market \$15 per 8 Foot Table

First Prize: ICOM IC-706 Mk II G HF/VHF/UHF Mobile Rig

Second Prize: ICOM IC-208H Dual Band Mobile

Third Prize: ICOM T-90A Tri-Band HT

Fourth Prize: MFJ-259 Antenna Analyzer

Fifth Prize: Comet UHV-6 40M to 440 Mobile Antenna

Mobile Check-In Until Noon on 146.52 (Mobile Check-In Prize!)

Special Events:

ARRL Representatives from Headquarters Staff., Atlantic Division & WPA Section!

Forums on a wide range of Amateur Radio Topics!

QSL Card Checking for DXCC, Worked All States, VHF & UHF Awards!

Check the web site for more information at <http://www.qsl.net/w3udx>

Hamfest Coordinator David G. Zibrat W3VXT, 105 Seminole Trail, Butler PA 16001 (724) 282-9077

w3vxt@arri.net

To Reserve Indoor Vendor Tables contact Keven Berry KF4RMA, 380 Three Degree Road, Renfrew PA

16053 (724) 586-1182 kf4rma@arri.net

WACOM HAMFEST 2004

Free Coffee Courtesy of Ham Radio Insurance Associates

Washington County
Fairgrounds

Sunday, October 3rd

8:00 AM to 1:00 PM

Setup at 6:00 AM

Talk-In on W3CYO/R

145.490 MHz

VE Testing starting at 10:00 AM

Contact Jacque Gosselin, N3ZEL 724-746-9235, n3zel@fyi.net

Prizes Include:

ICOM 706 MKIIG transceiver

MFJ Antenna Analyzer

SGC 239 Antenna Tuner

Digital Camera

ICOM 2100 H 2m Transceiver

Check www.wacomarc.org for updates



Admission: \$5.00

Table Indoors \$10.00

Tailgating Spaces Available @ \$5.00 Each

For More Information: Ed Oelschlager, N3ZNI @ 724-746-9235
n3zni@arri.net



WIRELESS ASSOCIATION OF SOUTH HILLS, INC.

Membership Application/Renewal for 2004



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

Inside This Issue:

- The ARISS Contact Was Fantastic! Read about it and feast on the pictures!
- Speaking of feasts, how's about those picnic photos too?
- Double take? Is that the new noon news crew on Channel 11, or is it just the club getting the guided tour?
- PA QSO is only a month away... started making plans yet?

All this & more... waiting for your right inside these pages!!



The Breakfast Gang (August)

Getting together at **Your Way Café** for the monthly Club Breakfast were (L—R) Larry K3VX, Pete N3RNX, Ron WN3VAW, Bill W3WH & Linda, Ed N3ZNI, Paul NP2JF, Shawn NØPEU, and Ted W4ZE, plus (not shown) Steve W3SRL, Dan KB3HVN and Jacqué N3ZEL.

Now, if you're thinking that this photo would normally merit the **WASH** Spotlight on Page 4, then you can just imagine what other photos wait for you inside this issue!

Photo courtesy of and ©Copyright 2004 Steve Lane W3SRL

Upcoming WASH Club Events:

- ◆ WACOM Hamfest October 3rd
- ◆ PA QSO Party October 9th —10th
- ◆ JOTA October 16th

The WASHRag

Wireless Association of South Hills, Inc.
Ron Notarius WN3VAW, Editor
946 Sleepy Hollow Road
Castle Shannon, PA 15234-2222



N3SH / WA3SH
NP2SH/B
www.washarc.org