The HARC Spark

The Official Newsletter of the Holmesburg Amateur Radio Club

P.O. Box 6253 Philadelphia, PA 19136

K3FI 146.685 Mhz Repeater WM3PEN

Web Site http://www.harcnet.org

September 2001

Editor: WA3PZO

PREZ SAYS.....

It's after Labor Day. The beaches and the pools have closed for another season. Before you know it we'll be complaining about how cold it is and all of the snow on the ground.

However there is a lot going on between now and then. As I have mentioned in previous newsletters HARC has a dynamite fall line up of programs and events.

Joining us at the September meeting will be Joe Kramer, N2XYZ. He'll be talking about the Battleship NJ Amateur Radio Club. It's a real interesting story of the work that club members have done already and future plans.

On October 25th we'll have John Dilkes, K2TQN, **QST**'s Old Radio editor. John always has an interesting story to tell about the early days of radio and on November 29th ARRL Vice President Kay Craigie, WT3P, will be talking about ARRL's Education Project.

Don't put your calendar away yet. October also has two other events. HARC Technician license classes start on Ocotber 17th under the leadership of Frank, N3ZZN and on October 20-21, the ARRL will have an exhibit at NBC10's Techfest at the Pennsylvania Convention Center. The exhibit will introduce those in attendance to the high tech world of ham radio.

Also stay tuned for some fall fox hunts and if you are really looking ahead the 2 meter simplex contest will be coming up in February.

Until next time….73s Bob, WA3PZO

INSIDE THIS ISSUE

1 Meetings/Ham Classes

3 HARC, JR?

5 Fox Hunt

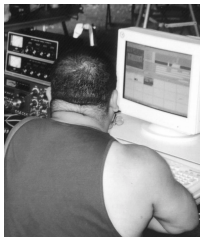
5 Keystone Award

7 In the News

IT DIDN'T RAIN ON HARC'S PARADE

K3FI - FIELD DAY SCORES
CW QSOs 46 Digital 63
Phone 199 Claimed contact score 834 - Bonus points: 910 Emergency power, Publicity, public spot, Information available, message to Section Manager, SSTV.

This year's score is better than last year's total by almost 300 points. Thanks to all who help make it a good time.



N3LXN KB3EBG

HARC FAMILY PICNIC

HARC's annual picnic turned out to be a family affair with kids, nieces, nephews, spouses, and club members joining in for some family fun. Leading the grill effort was W3KZA. Thanks to all who brought some homemade specialties to the gathering and those that helped out. It was nice meeting so many family members. We certainly look forward to doing it next year.

SO YOU WANT TO BE A HAM?

HARC will be sponsoring an Introduction to Ham Radio Class beginning October 17th at the Oxford Circle Jewish Community Center. This will be a no-code class. Cost is $25. For further info contact Frank, N3ZZN at N3ZZN@aol.com.

SEPTEMBER-OCTOBER ACTIVITIES

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
2	3	4 **Chaverim 9pm** W1AW Qualifying Runs 10pm	5 **CW Practice: 7:30** **Members net: 8:00**	6	7	8 ARRL VHF QSO Party North American Sprint, CW
9 ARRL VHF QSO Party	10	11 **Chaverim 9pm**	12 **CW Practice: 7:30** **Members net: 8:00**	13	14	15 North American Sprint, phone
16 Washington State Salmon Run, Tennessee QSO Party	17	18 **Chaverim 9pm**	19 **CW Practice: 7:30** **Members net: 8:00** W1AW Qualifying Runs 10 pm	20	21	22
23	24	25 **Chaverim 9pm**	26 **CW Practice: 7:30** **Members net: 8:00**	27 - HARC Meeting BNJARS	28	29 CQ WW RTTY Contest Louisiana QSO Party
30	1	2 **Chaverim 9pm**	3 **CW Practice: 7:30** **Members net: 8:00**	4	5	6
7	8	9 **Chaverim 9pm**	10 **CW Practice: 7:30** **Members net: 8:00**	11	12	13

Dates to Note: September 27 - Battleship NJ Amateur Radio Society
October 25 - Old Time Radio

H.A.R.C. Board Of Directors 2001
President : WA3PZO : Bob Josuweit
Vice Pres. : N3LXN : Mike Wurgley
Treasurer : W3KZA : Sid Kalos
Secretary : KB3AKK Dave Hogan
Trustee : KB3SM : Bob Brocklehurst
Trustee : KB3EBG : Peter Santiago
Trustee : KB3AAJ : Ron Slattery
Tech Committee : WB3BDC : Ron Cardullo
Editor : WA3PZO: Bob Josuweit

H.A.R.C. Maintains a Web Page @www.harcnet.org All members Online can be emailed via theircallsign @harcnet.org. Articles, pictures etc. submitted for the newsletter should be in standard ASCII or MS Word, .jpg or .gif formats and E-mailed to the Editor no later than the 2nd Saturday to be included in the next edition! WA3PZO@Harcnet.org.

H.A.R.C. Nets meet on 146.685 weekly
The Chaverim Net: Tuesday @ 9:00 PM
CW Practice: Wednesday @ 7:30 PM
Members net: Wednesday @ 8:00 PM you can listen to the Amateur Newsline & ARRL audio reports.
SSB Net on 28.450 +- mhz Sundays @ 9:00 AM

H.A.R.C. Monthly Meetings - The Board of Directors meets on the 2nd Tues. @ 8:00 PM. General meetings are held the last Thurs. @8:00 PM.

+ Marks the boundary of the buildings, the actual entrance is located where Rt. 232 Intersects. Stop at the guardhouse and ask if you're not sure where to go...

The Naval ASO 700 Robbins St. Phila PA

H.A.R.C maintains the 146.685 repeater located @ Univ. of PA., Phila PA with inputs in Abington, N.E. Phila, and Cherry Hill, NJ; More Club Information & Member Applications can be had by contacting any of the Directors via E-mail. Info@harcnet.org, the web page http://www.harcnet.org or writing to HARC PO Box 6253, Philadelphia, PA 19136.

HARC is an ARRL Special Service Club.

NJ2BB SCUTTLEBUTT

By Joe Cramer, N2XYZ

BNJARS has been active for eight months. What a start! We have over 100 members from the Delaware Valley area and still growing. Averages of 15 to 20 members each Saturday are working on board the ship. The amateur radio station is ready for operation when the ship gets to its final mooring. Some work still to be completed but we are on schedule.

Look for NJ2BB/MM to be on the air Labor Day weekend if the ship is moved. That is the proposed time for the ship to be moved to its new home. The ship will be opened to the public several weeks after it moves. The move was delayed do to the storms in the Gulf, parts for the new pier were delayed. Yes the Battleship New Jersey will be moored in Camden, NJ near the Aquarium just south of the Benjamin Franklin Bridge.

Next step with BNJARS is setting up operating schedules. We are looking for all amateur radio clubs to help in operating from the ship. To make operating NJ2BB a pleasant and rewarding experience we need to have some organization and schedule clubs on a voluntary basis. This will allow time for operators to share in the operating time. We, therefore, would like the President of your organization to send an E-mail to Dave Burgess, Operations Officer, and inform him of your group's willingness to take part in operating NJ2BB. His E-Mail address is wa2tvs@arrl.net. When E-mailing please give a name in your organization that will be your representative or coordinator's E-mail address and telephone number. This will help to avoid operating conflicts and provide smooth sailing.

The BNJARS has many things to discuss with the Home Port Alliance about our activities and operating on board the ship. The Homeport Alliance as well as BNJARS has had priority items to take care of and now we will be working on operating issues to make for a pleasant experience.

Come to the September HARC meeting to hear all about BNJARS.

Religion teacher requires reading "October Sky"

October Sky tells a story of youth and space. In many cases it has inspired youth to go on and pursue their dreams. Here's a letter to the book's author from Father Dan, KA3VMA, at Monseignor Bonner High School in Upper Darby.

Dear Mr. Hickam, Thank you for taking the time to write Rocket Boys (October Sky). Your book is required summer-break reading for our students. I am a religion teacher and decided to read what was on the reading list.
I was deeply touched by your desire to not only talk about building rockets but also to honor those people whom you describe in your book. The very last paragraph of your text beautifully summarized much of what you wanted to say about the experiences of your youth. Your book qualifies as an ode about love.
I am the moderator of an after-school activity, a computer and amateur radio club. Instead of sending rockets to the sky, we try to contact the ones that now there via amateur radio. Our best success was contacting the MIR space station laptop computer via 2 meter packet radio.
Having read your book I am inspired to do even more to learn, to persevere, and to enjoy the adventure of discovery. My students in class will, no doubt, sense my enthusiasm in all I do.

ROCKET BOYS/OCTOBER SKY

New York Times #1 best-seller!!
(from www.homerhickam.com)
Homer Hickam's short article about his life as a young boy growing up in Coalwood, WV and aspiring to be a rocket scientist was called "The Big Creek Missile Agency" and was written for Air & Space Magazine in 1994. It received so much acclaim and interest, he was asked to write a book detailing the whole story. *Rocket Boys: A Memoir* was published by Delacorte Press in September 1998 and the movie based on it, *October Sky* premiered nationwide on his birthday February 19, 1999. The title of the paperback released at the same time was changed to the movie title, which is an ANAGRAM of *Rocket Boys* (take the letters of rocket boys and move them around to spell october sky!) It is also available in abridged audio book, electronic book, large print, and is a Reader's Digest Condensed Book.

HOW ABOUT A HARC JR?

By Bob, WA3PZO

One of the things that impressed me at the HARC picnic was the number of youth in attendance. The youth were our member's children, nephews, nieces, grandkids, etc. Certainly these kids share something in common, even if it is just being a kid. Several clubs around the country sponsor youth activities. Some, such as BARC JR. in Boulder, CO sponsor a junior ham radio organization with members, officers, etc. They teach classes for the kids and have youth activities. Others may just provide a forum for the kids to get together and have fun. Maybe it's going to a ball game, the circus, an ice skating show, or a movie. It would be a way of bringing HARC members' kids together. In order for something like this to be successful we need to hear from the parents, and grandparents. Maybe you are retired and are willing to spend some time with the youth, talking about radio or something you were involved with. A few years ago I met a non-club member from the Northeast who worked with Thomas Edison. What a thrill to talk to someone who actually worked with Edison instead of having to read about it in a book. One of the fun things that I enjoy doing is sharing my 1980 Winter Olympic Medal with youth and telling how I won a "bronze medal."
So lets hear your ideas of bringing our youth together.

Sightless ham tells story about ham radio in the Philadelphia area!

(This is the second of a series of articles by W3DD, who lives in suburban Philadelphia. The articles are from the Handi-Hams email newsletter.)

Becoming a Ham - I went for the exam in May of 1931. It was a fun experience. They spent three hours with me, unheard of these days. The questions were easy to handle. The man assigned to work with me read them and I answered. They were not multiple-choice questions, but rather such questions as, "Give the regulations relative to amateur broadcasting." "What is the function of a capacitor in a resonant circuit." And many more of that sort. Then it was diagram time. I was asked to describe a circuit for a two vacuum tube receiver suitable for use in the 80 meter band.

> "Give the regulations relative to amateur broadcasting."
> An old FCC exam

Then, describe the circuit for a typical oscillator- amplifier transmitter for the 40 meter band. I had no trouble with these questions, but the examiner and I got into an argument over a capacitor that I put in the circuit for the transmitter. He said it was not supposed to be there. I said that it was and that it was necessary to keep the grid bias constant during the part of the signal from the oscillator when the signal was negative. He said, "Wait, I will go look it up". I said, "Look on page ... in the handbook." He came back in a couple of minutes and said, "You're right. Go on." Then came the code test, receiving part first. They had a paper tape with holes punched in it which, when drawn through a machine, sent dots and dashes. I told the examiner I would like to have a few minutes to get used to their typewriter. So, he let me type on it for a couple of minutes and then set the code machine going. For the first few seconds, I had trouble getting synchronized so that my fingers would follow what I heard, but I got the five minutes in finally and had two errors. The sending part was easy. He read a sentence and then I sent it. He had me do about four or five sentences and declared that was enough. After five minutes of consultation with someone else in the office, they announced I had passed and would receive my license in a month or so. I waited with tremendous impatience until I got the "ticket" saying that my callsign was W3DD. That was 70 years ago last May, 2001. I still have it and am still active. We also have it as the license number for our car. Since the "ticket" arrived after we had gone on vacation, I didn't get on the air until October, 1931. My first contact was October 31, 1931, at about 5:00 PM, with W4OG in Salem, NC. It was an exciting time for me and for Dad, who had read so much for me and who had helped buy radios and parts. My first receiver was a two tube regenerative 40 meter one that I built and the transmitter was an oscillator-amplifier, called an MOPA system, meaning "master oscillator power amplifier." The amplifier tube was a UX-210 with 500 volts on the plate and about 20 watts output. We had a mishap with it before I was able to make a contact. Dad got the 210 tube for me at our favorite radio store, M & H in Philadelphia, later to become H & R. For some reason, the tube behaved in a manner that indicated to us it was defective. It turned purple and drew far too much plate current when we tried to use it. Dad took it back and convinced Maury it was defective. Maury didn't want to admit it, but he gave us another tube and this one behaved for years. Either the first tube was bad or I learned how to handle the second one properly. I remember rather vividly one night soon after, Dad on his way from work, walking down the street carrying a heavy 6 volt storage battery. He had stopped at the Pep Boys store which he passed on his way from the train. This was to run the filaments of the receiver tubes. Another evening, just before Dad got home, I was working some stations. The receiver was not very stable, so the slightest disturbance in the electrical system would cause the signal to change frequency slightly, making it necessary for me to retune the dial to get it back again.

> "Oh …., you made me lose the signal."
> W3DD to his dad

Dad came in through the back door and said, "How's it going?" and snapped on the light. With that, the signal disappeared and I cried, "Oh damn, you made me lose the signal." He said in a hurt tone, "Well, alright, I'll get out of here". I jumped up and went after him. "I'm sorry, Dad, I didn't mean it the way it sounded. It's only that signals jump when the light is turned on. Come back and let me show you how things are doing." So he came back and chatted for a few minutes. The story of how my antenna got put up is a story in itself. Suffice it to say that an antenna is not a simple hunk of wire thrown out the window or fastened to the bed springs. To get the 20 watts generated by the 210 tube, much care must be taken to have the wire just the right length, have it insulated at each end so the RF power does not go into the tree or the house or whatever holds up the wire, and the energy must be transmitted to the wire by a means that does not lose any of it. This is called "matching" the feed line to the antenna. To get this done Dad pressed one of his office cohorts into service. Mr. Springer came out one Saturday and climbed a ladder and a telephone pole while I measured the wire and fashioned the feed line system that was to go from the breakfast room window up to the end of the antenna. The feed line consisted of two parallel wires about five inches apart and held in position by insulated rods. We called it the "bird ladder." The connections from the output of the UX-210 were made to two special feed-through insulators that conveyed the energy through a narrow piece of wood fitted under the window sash. Thus, the window could be raised and lowered without interfering with the feedline system. This was my first Ham setup which lasted for two years. It was rebuilt in late 1933 or early 1934 for a special occasion that will be explained later. Next time: Oh, oh. The FCC pays W3DD a little visit.

YOUR RST IS 5-9-9

The R-S-T system, when properly used has the following meaning:

Readability

R1 Unreadable.
R2 Barely readable, occasional words distinguishable.
R3 Readable with considerable difficulty.
R4 Readable with practically no difficulty.
R5 Perfectly readable.

Signal strength

S1 Faint, signals barely readable
S2 Very weak signals
S3 Weak signals
S4 Fair signals
S5 Fairly good signals
S6 Good signals
S7 Moderately strong signals
S8 Strong signals
S9 Extremely strong signals

Tone

Tl Extremely rough hissing note
T2 Very rough ac note, not musical
T3 Rough, low-pitched ac note, mod. Music
T4 Rather rough ac note, mod. Musical
T5 Musically modulated note
T6 Modulated note, slight trace of whistle
T7 Near dc note, smooth ripple
T8 Good dc note, just a trace of ripple
T9 Purest dc note

These reports were very meaningful in the old days. If you did not get a T9 you went tearing into your power supply. You were in danger of being the recipient of a pink ticket from the FCC monitoring station. There were no automatic 599's then and for a good many years we had no S Meters on the receivers.73 Norm K1AA

HARC FOX HUNT

By Bob, KB3SM

We all met at the designated picnic area around 10 AM... After some setting up and sending the Fox on his way we were ready to go find him. We had drawn out a mapped area 2 miles in each direction from the parking lot about 16 square miles to search.

All went pretty well. We had our first try at getting lost and we did just that. The Fox proved to be pretty sly, we had many reflections in the park area from the trees. I took a bearing and headed out in that direction, within a few blocks lost the Fox's signal.

We should have had an automated transmitter, because the Fox didn't have a good signal, he was using a low power HT with a ducky. So we called out for anyone hearing the Fox to tell him increase output somehow antenna whatever nobody was hearing him UGH!!! So we back tracked to where we could hear him and got mislead by more reflections. The 3 out of 4 hunters were circling about a 10 block area where the Fox was full scale and the Doppler took us around and around those blocks several times. By now we had lost almost an hour just trying to find his signal. We told him key down and keep it going... I should have found a clear parking lot and pulled out the Quad for another fix, but the other guys were in the same area and I thought we had been close so around we went again... at about 78 minutes into the action... the 4th hunter found the Fox! We then decided to try for another 15 minutes since the picnic was probably getting some burned burgers by now and we were just not getting anywhere! No one else was close we were chasing ghost signals in the same approximate 10 block area so we gave up. We did have fun and learned some good lessons for next time!! My first plot on the map was almost perfectly 180 degrees out if we would have followed my line on the map in the opposite direction we would have been on top of Fox in minutes, but I followed a ghost signal reflection off the trees in the opposite direction... We need more practice and should have taken more beam headings and not just depend on the Doppler box. The winner W3BMA, who has some extra Doppler PCboards, (They are available first come first served), also made a hand held antenna with PVC Tubing and 2 Telescoping HT whips for the Doppler Box design which he used by himself. He had no co-pilot and no other gear but that Doppler unit. He got out of his car and took null readings after driving short distances, he drove the perimeter of the hunt area we setup on the map and zeroed in on the FOX pretty darn good!! Dick W3BMA won some brownie points and a club certificate for being the FIRST HARC member to win the FOX HUNT... It goes to show you planning and fore thought works better than jumping out there and going at it. A few weeks later the hunters came out for the hunt. This time Frank, N3ZZN, found the fox. Net hunt is scheduled for September 2, 11 am starting in Pennypack Park. For further info contact Bob, KB3SM.

Another PA Award

The Pennsylvania Keystone Award (PKA) was created to promote two way contact with Amateur Radio stations in the Commonwealth of Pennsylvania. The award is given to amateurs who directly contact 100 different Pennsylvania amateur radio stations. No retransmitted contacts may be counted, including repeater and digital retransmissions, of course. Applying is easy - no QSL cards are required. If you already have a PKA certificate in your shack you can earn endorsements for it as well.


KEYSTONE AWARD
HARRISBURG RADIO AMATEURS CLUB
PRESENTED TO
JOE T. AMATEUR
OPERATOR OF AMATEUR RADIO STATION
SAMPLE CALL
HONORING HIS ACHIEVEMENT
IN HAVING COMMUNICATED WITH ONE HUNDRED
AMATEUR RADIO STATIONS IN THE COMMONWEALTH OF
PENNSYLVANIA

Many amateurs apply for the award after participating in the annual Pennsylvania QSO Party in October. This event is the most popular QSO party in the United States.

History

The PKA award was created over 30 years ago. The program was dormant for a period and revitalized in 1992. The award has always been sponsored by the Harrisburg

Radio Amateur's Club. The organization has over 150 members from south central Pennsylvania and has been an ARRL affiliated club for 50 years. Today over 420 PKA awards have been issued to amateurs worldwide.

Endorsements
An endorsement is available for working 100 different Pennsylvania amateur radio stations in any calendar year after the year the certificate is originally issued.
Application
Send an alphabetical-by-call list of 100 different Pennsylvania stations worked. The list must include: Station Call, Date, Time, Band, Mode
The following statement must also be made on the submission: "I certify that the above list is a true record of the contacts of Amateur Radio Station _____".
Mail your application to the address below.
Charges
United States and possessions: $3.00 US. There is no charge for endorsements.
Questions
Feel free to contact the club Awards Manager if you have any questions:
Mark Robinson WB3JIS
1235 Middletown Rd.
Hummelstown, PA 17036-8929
DMarkRobinson@excite.com

Logbook of the World

Fast on the heels of approval of the "Logbook of the World" by the ARRL Board of Directors, software design to support the electronic contact-verification program is continuing apace. ARRL Membership Services Manager and LOTW Project Manager, Wayne Mills, N7NG, said the ARRL hopes soon to make LOTW software modules available to vendors for incorporation into their logging programs. These modules are being developed as part of the Trusted QSL open-source project headed by Darryl Wagoner, WA1GON. (More information about the Trusted QSL project
can be found at "sourceforge.net/projects/trustedqsl")
"We have been in touch with 15 or so developers of popular logging software," Mills said. "We're also looking at providing a basic, do-it-yourself program to get contact data to ARRL."

At the heart of the Logbook of the World concept is a huge repository of log data provided by operators--from individual DXers and contesters to major DXpeditions--and maintained by ARRL. Mills says the system will benefit big and little guns alike by providing quick QSO credit for awards offered by ARRL, and, it's hoped, for awards offered by other organizations as well.

Once it becomes available--which could be as early as the middle of next year--Logbook of the World will accept authenticated data directly from computerized logs via the Internet. "This is an e-mail based system that uses easy-to-obtain digital signatures for authentication," Mills said. "Once you get your digital certificate, a few keystrokes will do the trick."

Mills said the program envisions user access to the LOTW "confirmed database" so an operator can see what "matches" turn up--such as confirmation of new DXCC entities, states or grid squares. "We'll also publish a list of logs that have been submitted," he said, adding that operators may access the LOTW database once they've uploaded their own log data.

Heading up software development is ARRL Electronic Publications Manager Jon Bloom, KE3Z, along with Web Applications Developer, Mark Simcik, WA1VVB. Software specifications already have been established. Advising the project are Darryl Wagoner, WA1GON, Dick Green, WC1M and Ted Demopoulos, KR1G. ARRL staffer and well-known contester and DXer Dave Patton, NT1N, who conducted the original electronic QSL project study, is also assisting.

Mills said that he hopes to be able to announce a specific inauguration date for Logbook of the World within a few months, as the software design progresses.

RILEY HOLLINGSWORTH, K4ZDH, TO SPEAK AT READING RADIO CLUB SEPTEMBER 14, 2001

(via Reading Radio Club)

We are pleased to announce that at the Friday September 14, 2001, Reading Radio Club monthly meeting, Riley Hollingsworth, K4ZDH, will be our guest speaker. In 1998, Riley joined the Federal Communications Commission (FCC) Compliance and Information Bureau as the legal advisor for enforcement. In November 1999, he was appointed FCC Special Council for Amateur Radio Enforcement. Riley holds an Advanced Class license and has been an Amateur Radio operator for more then 41 years. His interest has always been to enforce responsible behavior and while in law school, he was part of "Nadar's Raiders".

I have heard Riley speak on two occasions. He is an excellent speaker and has a stimulating and thought-provoking message to deliver to the Amateur Radio community.

The September 14, 2001, meeting will start at 7:00 p.m., in the first floor auditorium, at the Berks County Agricultural Center located off County Road in Bern Township.

Everyone interested in the future of Amateur Radio is invited. Riley will have a short Question and Answer session after his talk.

FCC ANSWERS (questions pg7)
General:G1B05 @G1B05 (D) [97.113e]
Extra: E1A16 @E1A14 (D) [97.211b]

IN THE NEWS

New Satellite in Orbit (NASA) The Simplesat flight experiment is an attempt to design, construct, and fly an inexpensive 3- axis stabilized spacecraft with optical science gathering capability. This small satellite contains a GPS receiver capable of determining its orientation. This orientation information will be used to try to control the pointing direction of the telescope onboard the satellite. Simplesat was launched August 10, 2001 on the Orbiter Discovery for mission STS-105. The Space Station crew used a spring ejection system to place Simplesat in its own orbit. Simplesat will orbit the Earth for about 5 months before atmospheric drag will cause it to re-enter. During that time the Principal Investigator at Goddard Space Flight Center will attempt to communicate with Simplesat using ham radio style equipment.

Space station dilemma: How best to notify crews of bad news from home (AP) - NASA is concerned about how to notify crew members on the International Space Station of bad news. A Cosmonaut aboard the MIR spacestation had to be told about his mother's death and he was scheduled to be in orbit for another 4 months. It's not something that you want to think about, but it is part of life. The article said, "With ready e-mail access and a ham radio aboard the international space station, the concern is that troubling news could arrive via unofficial channels and aggravate an already stressful situation. That happened occasionally with the ham radio aboard Mir, before the Russian space station was abandoned and sent on a suicide dive."

Seven years old and talking on the radio (AP) "Jordan Smith isn't shy about talking with adults -- at least not those he meets on the radio." His parents are both hams. Jordan told The Mining Journal (Michigan) that you talk to people "just like you're on the phone." Jordan score 80% accuracy on his test. According to Jordan's dad, "It reinforces what (Jordan) studies in school. What works well with kids is having projects that use those classroom skills. Radio promotes good communication skills with a generation who likes to sit in front of the TV. It's like a mystery talking to people you don't know, finding out who they are they and where they live. You can walk away in 10 minutes with a brand new friend."

US and Peru share blame in downing of missionary plane: A binational report says the US and Peru share blame in an April 20 incident that led to the death of US missionary Veronica "Roni" Bowers, KD4CKM, of Michigan, and her infant daughter, Charity, seven months. Bowers, affiliated with the Harrisburg, Pennsylvania-based Association of Baptists for World Evangelism, and the infant were killed when their plane was shot down by the Peruvian Air Force, which erroneously concluded that the plane carried drug traffickers. The Peruvian military claimed that pilot Kevin Donaldson, KA5YIG, of Thornton, PA, had ignored radio and visual warnings to land and warning shots. Bowers' husband Jim, KD4CKN, and their son, Cory, were not seriously injured in the incident; Donaldson was shot in the leg. The couple had been serving in Peru since 1993. A report this week faulted both poor communication and lax procedures in the US-Peruvian drug interdiction program for the incident. According to the report, the plane was spotted by a member of the Peruvian military aboard a US Department of Defense aircraft that was chartered by the CIA. US observers had expressed doubts that the plane was involved in narcotics trafficking, but their concerns were not understood soon enough because of language difficulties. The report also concluded that detailed safety procedures to prevent such incidents were not followed. The aerial interdiction program in the region has been suspended. A review of the program is under way. Donaldson managed to ditch the Cessna 185 float plane in the Amazon River. ARRL/WA3PZO For more info see July, 2000 CQ.

FCC GENERAL CLASS EXAM QUESTION
DO YOU KNOW THE ANSWER?

Under what limited circumstances may music be transmitted by an amateur
station?

A. When it produces no dissonances or spurious emissions
B. When it is used to jam an illegal transmission
C. When it is transmitted on frequencies above 1215 MHz
D. When it is an incidental part of a space shuttle retransmission

FCC EXTRA CLASS EXAM QUESTION
DO YOU KNOW THE ANSWER?

When may a station use special codes intended to obscure the meaning of messages?

A. Never under any circumstances
B. Only when a Special Temporary Authority has been obtained from the FCC
C. Only when an Extra class operator is controlling the station
D. When sending telecommand messages to a station in space operation

Answers pg 6.

In other news…

The U.S. Coast Guard Auxilary will be teaching a safe boating course at the Naval ASO beginning September 13th. For further info contact Ted, KA3CYE.

HOLMESBURG AMATEUR RADIO CLUB

P.O. Box 6253 Philadelphia, PA 19136

"Serving the Community Through Ham Radio"

SEE YOU AT THE NEXT CLUB MEETING SEPTEMBER 27TH
BATTLESHIP NEW JERSEY

NEXT MEETING:

DATE: **SEPTEMBER 27TH, 2001**

TIME: **8:00 PM**

LOCATION: **NAVAL ASO**

TOPIC: **BATTLESHIP NJ AMATEUR RADIO CLUB**